



Publications of Ludwig Schultz

1. L. Schultz, H. Freyhardt, "Anisotropic Critical Currents in Heterogeneous Lead-Sodium Alloys", phys. stat. sol. (a) 13 (1972) 145.
2. P.H. Melville, W. Schlump, L. Schultz, "Critical Currents Due to Flux Pinning in Cylinders of Type I Superconductor Pb-Ag", Sol. State Comm. 14 (1974) 753.
3. L. Schultz, H.C. Freyhardt, "Flux Pinning by Regularly Arranged Precipitates in PbNa Alloys", Proceedings of the International Discussion Meeting on Flux Pinning in Superconductors, Akademie der Wissenschaften, Göttingen, 1975, S. 168.
4. A. Das Gupta, L. Schultz, H.C. Freyhardt, P. Haasen, "Anisotropy of the Critical Current in Directionally Solidified Pb-Na Eutectic", Proceedings of the International Discussion Meeting on Flux Pinning in Superconductors, Akademie der Wissenschaften, Göttingen, 1975, S. 281.
5. A. Das Gupta, B.L. Mordike, L. Schultz, "Superconductivity in a Dilute Copper-Niobium Alloy", Mat. Sci. Engg. 18 (1975) 137.
6. L. Schultz, H.C. Freyhardt, R. Bormann, B.L. Mordike, "Superconductivity in Powdermetallurgically Produced Composites of CuNb, CuV and CuSnNb", Proceedings LT 14 Conference, Helsinki, 1975, S. 59.
7. M. Rembes, P. Haasen, L. Schultz, "Precipitation Hardening of Lead-Sodium Single Crystals", Z. Metallkunde 67 (1976) 330.
8. L. Schultz, "Flußverankerung in Supraleitern mit verschiedenen Hindernisanordnungen", Phil. Mag. 36 (1977) 1171.
9. L. Schultz, "Peak-Effekt in Supraleitern mit regelmäßig angeordneten Ausscheidungen", Acta Metallurgica 25 (1977) 1459.
10. R. Bormann, L. Schultz, H.C. Freyhardt, "Superconducting Properties of Powder Metallurgically Produced CuNb₃Sn Composite Wires", Appl. Phys. Letters 32 (1978) 79.
11. E.P. Romanov, H.C. Freyhardt, L. Schultz, "Superconducting Composites Produced by Rapid Quenching", Scripta Metallurgica 12 (1978) 151.
12. L. Schultz, R. Bormann, "Superconductivity in Filamentary CuNb Composites Produced by Powder Metallurgy", J. Appl. Phys. 50 (1979) 418.
13. L. Schultz, R. Bormann, H.C. Freyhardt, "Superconducting Properties and Annealing Behavior of Filamentary Cu-Based Composites Produced by Powder Metallurgy", IEEE Trans. Magn. Mag-15 (1979) 94.
14. P. Haasen, L. Schultz, "Superconducting Composites Prepared from Fine Powders", in D. Kuhlmann-Wilsdorf, W.C. Harrington, Jr. (Eds.), "New Developments and Applications in Composites", AIME, New York, 1979, S. 61.
15. R. Bormann, L. Schultz, H.C. Freyhardt und B.L. Mordike, "Pulvermetallurgische Herstellung von Nb₃Sn-Verbundsupraleitern", Z. Metallkunde 70 (1979) 467.
16. L. Schultz, E.A. Giess, R.T. Hodgson, T.O. Sedgwick, "Permanent Local Modification of the Magnetic Bubble Properties of Epitaxial Garnet Films by Laser Annealing", J. Appl. Phys. 50 (1979) 5902.
17. L. Schultz, "Elementary Interaction of a Domain Wall with an Individual Dislocation in Magnetic Garnet Films", J. Magn. Magn. Mat. 13 (1979) 251.
18. L. Schultz, K.Y. Ahn, "Experimental Investigation of the Interaction Potential of Domain Walls with Localized Stress Fields in Epitaxial Garnet Films", J. Appl. Phys. 50 (1979) 7862.
19. E.A. Giess, R.T. Hodgson, L. Schultz, T.O. Sedgwick, "Laser Annealing of Gallium Substituted Garnets to Control Magnetic Bubble Properties", IBM Techn. Disclos. Bull. 22 (1979) 1272.

20. R.T. Hodgson, E.A. Giess, L. Schultz, T.O. Sedgwick, "Permanent Local Modification of the Magnetic Bubble Properties of Epitaxial Garnet Films by Laser Annealing", Proc. MRS Symposium on "Laser and Electron Beam Processing of Materials", Boston, 1979.
21. L. Schultz, C.C. Tsuei, J.T. Yeh, "Elimination of Magnetic Field Background for Field-Sensitive Devices", IBM Techn. Disclos. Bull, 23 (1980) 3424.
22. L. Schultz, "Preparation of Thick Amorphous Metals by Jelly Roll Technique and Rapid Diffusion", Proc. MRS Europe Meeting on "Amorphous Metals and Non-Equilibrium Processing", Strasbourg, 1984, ed. M.v. Allmen, S. 135.
23. L. Schultz, "Formation of Amorphous Nickel-Zirconium Wires by Mechanical Deformation and Solid State Reaction", Proc. 5th Int. Conf. on Rapidly Quenched Metals, eds. S. Steeb und H. Warlimont, 1985, S. 1585.
24. L. Schultz, "Bulk Amorphous Metals by Solid State Reaction", Proc. NATO Adv. Study Inst. on "Amorphous and Liquid Materials", E. Lüscher, G. Fritsch, and G. Jacucci (eds.), Passo della Mendola, 1985, S. 508.
25. E. Hellstern, L. Schultz, "Amorphization of Transition Metal-Zr Alloys by Mechanical Alloying", Appl. Phys. Letters 48 (1986) 124.
26. E. Hellstern, L. Schultz, "Glass Forming Ability in Mechanically Alloyed Fe-Zr", Appl. Phys. Lett. 49 (1986) 1163.
27. E. Hellstern, L. Schultz, "Glass Formation in Mechanically Alloyed Transition Metal - Zr Alloys", Phil. Mag. B 56 (1987) 443.
28. E. Hellstern, L. Schultz, "Glass Formation in Mechanically Alloyed Transition Metal - Ti Alloys", Mater. Sci. Eng. 93 (1987) 213.
29. E. Hellstern, L. Schultz, "Glasbildung durch mechanisches Legieren", Metall 41 (1987) 482.
30. L. Schultz, J. Wecker, E. Hellstern, "Formation and Properties of NdFeB Prepared by Mechanical Alloying and Solid-State Reaction", J. Appl. Phys. 61 (1987) 3583.
31. L. Schultz, E. Hellstern, A. Thomä, "Superconducting Transition Temperature of Mechanically Alloyed Amorphous NiZr", Europhys. Lett. 3 (1987) 921.
32. L. Schultz, E. Hellstern, "Glass Formation by Mechanical Alloying", in: "Science and Technology of Rapidly Quenched Alloys", M. Tenhover, W.L. Johnson und L.E. Tanner (eds.), Materials Research Society Symp. Proc., Vol. 80 (1987), S. 3.
33. L. Schultz, "Bulk Amorphous Metals from Metallic Composites by Solid State Reaction", in: "Science and Technology of Rapidly Quenched Alloys", M. Tenhover, W.L. Johnson und L.E. Tanner (eds.), Materials Research Society Symp. Proc., Vol. 80 (1987), S. 97.
34. L. Schultz, H.W. Bergmann, "Internal Oxidation of Ag-Sn Alloys by Laser-Gas-Alloying", in: "Laser Treatment of Materials", B.L. Mordike (ed.), DGM Informationsgesellschaft, 1987, S. 451 und Optoelektronik Magazin 3 (1987) 303.
35. L. Schultz, J. Wecker, "Formation of Nd-Fe-B by Mechanical Alloying", Proc. 9th Int. Workshop on Rare Earth Magnets and their Applications, Bad Soden, 1987, Vol. 1, S. 301.
36. A. Thomä, G. Saemann-Ischenko, L. Schultz, E. Hellstern, "Study of Mechanically Alloyed, Amorphous Co-Zr and Ni-Zr Powders by Superconductivity Measurements", Proc. 18th Int. Conf. on Low Temperature Physics, Kyoto, 1987, S. 977.
37. J. Wecker, L. Schultz, "Beneficial Effect of Co Substitution on Rapidly Quenched Nd-Fe-B", Appl. Phys. Lett. 51 (1987) 697.
38. J. Wecker, L. Schultz, "Coercivity after Heat Treatment of Overquenched and Optimally Quenched Nd-Fe-B", J. Appl. Phys. 62 (1987) 990.
39. J. Wecker, L. Schultz, "Magnetic Properties of Rapidly Quenched Nd-Fe-Co-B", Proc. 9th Int. Workshop on Rare Earth Magnets and their Applications, Bad Soden, 1987, Vol. 1, S. 485.
40. G. Zorn, E. Hellstern, H. Göbel, L. Schultz, "In-Situ Crystallization Measurements on Fe-Zr Glasses Using an Automated High-Temperature Diffractometer with a Position-Sensitive Detector", Advances in X-Ray Analysis, 30 (1987) 483.
41. R. Brüning, Z. Altounian, J. O. Strom-Olsen, L. Schultz, "A Comparison between the Thermal Properties of Ni-Zr Amorphous Alloys Obtained by Mechanical Alloying and Melt-Spinning", Mater. Sci. Eng. 97 (1988) 317.
42. J. Eckert, L. Schultz, E. Hellstern, K. Urban, "Glass Forming Range in Mechanically Alloyed Ni-Zr and the Influence of the Milling Intensity", J. Appl. Phys. 64 (1988) 3224.
43. J. Eckert, L. Schultz, K. Urban, "Glass Forming Ranges in Transition Metal - Zr Alloys prepared by Mechanical Alloying", Proc. MRS Europe Spring Meeting, Symposium on "Preparation and Properties of Metastable Alloys", Strasbourg, June 1988, K. Samwer (ed.), J. Less-Common Metals 145 (1988) 283.

44. G. Endres, W. Kautek, B. Roas, L. Schultz, "Präparation von Hochtemperatur-Supraleiter-Filmen durch Laser-Verdampfen", Proc. 2nd European Conf. on Laser Treatment of Materials, Bad Nauheim, Oktober 1988, DVS Report 113 (1988) 103.
45. J.H. Harris, W.A. Curtin, L. Schultz, "Hydrogen Storage Characteristics of Mechanically Alloyed Amorphous Metals", J. Mater. Research 3 (1988) 872.
46. S. Heisz, L. Schultz, "Isotropic and Anisotropic Nd-Fe-B Magnets by Mechanical Alloying and Hot Uniaxial Pressing", Appl. Phys. Lett. 53 (1988) 342.
47. E. Hellstern, L. Schultz, R. Bormann, D. Lee, "Phase Formation in Mechanically Alloyed Nb-Al Powders", Appl. Phys. Lett. 53 (1988) 1399.
48. E. Hellstern, L. Schultz, "Progress of the Amorphization Reaction during Mechanical Alloying in Fe-Zr", J. Appl. Phys. 63 (1988) 1408.
49. E. Hellstern, L. Schultz, "Formation and Properties of Mechanically Alloyed Amorphous Fe-Zr", Mater. Sci. Eng. 97 (1988) 39.
50. E. Hellstern, L. Schultz, J. Eckert, "Glass-Forming Ranges of Mechanically Alloyed Powders", J. Less-Common Metals 140 (1988) 93.
51. E. Hellstern, L. Schultz, "Amorphization by Mechanical Alloying - a Versatile Technique for Producing Transition Metal - Transition Metal Amorphous Alloys", Z. Phys. Chem. 157 (1988) 215.
52. E. Hellstern, L. Schultz, "Glass-Forming Range in Mechanically Alloyed Fe-Zr", Z. Phys. Chem. 157 (1988) 227.
53. H.E. Hoenig, H. Behner, H. Freller, F. Friedrich, G. Gieres, K.H. Gunzelmann, W. Herkert, H.W. Neumüller, L. Schultz, M. Wilhelm, K. Wohlleben, R. Bruchhaus, O. Eibl, R. Einzinger, W. Holubarsch, H. Schmidt, A. Szulczyk, M. Thoener, "Status of HTS Activities at Siemens", Proc. Int. Conf. on High-Temp. Superconductors and Mater. and Mech. of Superconductivity, Interlaken, März 1988, S. 1433.
54. R. Kilian, L. Schultz, "High Temperature Corrosion of Iron-Based Amorphous Alloys", Z. Phys. Chem. 157 (1988) 165.
55. R. Prümmer, J. Eckert, L. Schultz, "Explosive Compaction of Amorphous Alloys", Proc. Int. Seminar on High Energy Working of Rapidly Solidified and High Temperature Superconducting Materials, Novosibirsk, Oktober 1988, S. II.
56. B. Roas, L. Schultz, G. Endres, "Epitaxial Growth of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films by a Laser Evaporation Process", Appl. Phys. Lett. 53 (1988) 1557.
57. L. Schultz, K. Schnitzke, J. Wecker, "Mechanically Alloyed Isotropic and Anisotropic Nd-Fe-B Magnetic Material", J. Appl. Phys. 64 (1988) 5302.
58. L. Schultz, J. Wecker, "Coercivity in ThMn_{12} -Type Magnets", J. Appl. Phys. 64 (1988) 5711.
59. L. Schultz, "Formation of Amorphous Metals by Mechanical Alloying", Mater. Sci. Eng. 97 (1988) 15.
60. L. Schultz, J. Wecker, "Hard Magnetic Properties of Nd-Fe-B Formed by Mechanical Alloying and Solid State Reaction", Mater. Sci. Eng. 99 (1988) 127.
61. L. Schultz, E. Hellstern, G. Zorn, "Glass Formation in Boron-Containing Alloys by Mechanical Alloying", Z. Phys. Chem. 157 (1988) 203.
62. L. Schultz, "Bulk Amorphous Metals from Metallic Composites by Solid State Reaction", Z. Phys. Chem. 157 (1988) 258.
63. L. Schultz, "Bildung amorpher Metalle durch Festkörperreaktion", Physikalische Blätter 44 (1988) 247.
64. L. Schultz, H. W. Bergmann, "Formation of Internally Oxidized Silver / Metal Oxide Composites by Laser-Gas-Alloying", Surface Engineering 4 (1988) 60.
65. L. Schultz, "Glass Formation by Mechanical Alloying", Proc. MRS Europe Spring Meeting, Symposium on "Preparation and Properties of Metastable Alloys", Strasbourg, June 1988, K. Samwer (ed.), J. Less-Common Metals 145 (1988) 233.
66. L. Schultz, "Mechanically Alloyed Amorphous Metals and Permanent Magnets", Proc. New Materials 88 Japan Conference, Osaka, Oktober 1988, S. 180.
67. J. Wecker, L. Schultz, "Magnetic Properties of Rapidly Quenched $(\text{Nd},\text{Pr})_2(\text{Fe},\text{Co})_{14}\text{B}$ -Type Alloys", Proc. Int. Conf. on Magnetism, Paris, July 1988, in: J. de Physique Coll. C8, 49 (1988) 611.
68. J. Dengler, G. Ritter, G. Saemann-Ischenko, B. Roas, L. Schultz, B. Molnar, D.L. Nagy, I.S. Szücs, "A Conversion Electron Mössbauer Spectroscopy Study of c-Axis oriented ^{57}Fe Doped Thin Films of $\text{YBa}_2\text{Cu}_3\text{O}_7$ ", Proc. Int. M²S-HTSC Conf., Stanford, July 1989; in: Physica C 162-164 (1989) 1297.
69. J. Eckert, L. Schultz, K. Urban, "Formation of Quasicrystals by Mechanical Alloying", Appl. Phys. Lett. 64 (1989) 117.

70. J. Eckert, L. Schultz, K. Urban, "Compositional Dependence of Glass Formation in Mechanically Alloyed Transition Metal - Transition Metal Alloys", in: E. Arzt und L. Schultz (eds.), Proc. DGM Conference on New Materials by Mechanical Alloying Techniques, Calw-Hirsau, October 1988, DGM Informationsgesellschaft, Oberursel 1989, S. 85.
71. J. Eckert, L. Schultz, K. Urban, "Interfacial Reactions and Amorphous Phase Formation in Ni-Zr Composite Wires", Proc. First Europ. Conf. on Advanced Materials and Processes (EUROMAT '89), Aachen, November 1989, DGM Informationsgesellschaft, Oberursel 1989, S. 1043.
72. H.E. Hoenig, H. Behner, O. Eibl, G. Endres, G. Gieres, B. Roas, L. Schultz, B. Hensel, G. Saemann-Ischenko, N. Klein, G. Müller, H. Piel, U. Klein, M. Peiniger, J. Schützmann, W. Ose, K.F. Renk, "Critical Currents in Magnetic Fields, mm-Wave Surface Resistance and Infrared Properties of Epitaxial YBaCuO Films", Proc. ISTEC Workshop on Superconductivity: "Problems and Prospects of Critical Current of New High Temperature Superconductors", Tokyo, Februar 1989, S.75.
73. N. Klein, G. Müller, H. Piel, B. Roas, L. Schultz, U. Klein, M. Peiniger, "Millimeter Wave Surface Resistance of Epitaxially Grown $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films", Appl. Phys. Lett. 54 (1989) 757.
74. N. Klein, G. Müller, S. Orbach, H. Piel, H. Chaloupka, B. Roas, L. Schultz, U. Klein, M. Peiniger, "Millimeter Wave Surface Resistance and London Penetration Depth of Epitaxially Grown $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films", Proc. Int. M²S-HTSC Conf., Stanford, July 1989; in: Physica C 162-164 (1989) 1549.
75. S. Mohammadian, G. Endres, K.J. Schmatjko, L. Schultz, "Herstellung von dünnen supraleitenden Filmen mit einem Hochpulsenergie-Excimerlaser", Laser-Magazin 6 (1989) 26.
76. K.F. Renk, W. Ose, J. Schützmann, T. Zetterer, H.H. Otto, J. Keller, B. Roas, L. Schultz, "Far Infrared Reflectivity of Ceramic High-T_c Superconductors and of an Oriented $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Film", Infrared Physics 29 (1989) 791.
77. K.F. Renk, J. Schützmann, T. Zetterer, W. Ose, H.H.Otto, B. Roas, L. Schultz, G. Saemann-Ischenko, "Far-Infrared Reflectivity and Conductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ ", Proc. of the USSR-FRG Bilateral Seminar on Investigation of High Temperature Superconductors, Modern Spectroscopic and Microscopic Methods, Tallinn/UdSSR, Oktober/November 1989.
78. B. Roas, B. Hensel, G. Saemann-Ischenko, L. Schultz, "Irradiation Induced Enhancement of the Critical Current Density of Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films", Appl. Phys. Lett. 54 (1989) 1051.
79. B. Roas, B. Hensel, G. Endres, L. Schultz, G. Saemann-Ischenko, "Superconducting Properties and Irradiation-Induced Effects in Epitaxial YBaCuO Thin Films", Thin Solid Films 174 (1989) 179.
80. B. Roas, B. Hensel, G. Endres, L. Schultz, S. Klaumünzer, G. Saemann-Ischenko, "Superconducting Properties and Irradiation Induced Effects of Epitaxial YBaCuO Thin Films", Physica C 162-164 (1989) 135.
81. B. Roas, L. Schultz, G. Endres, "Superconducting Properties of Laser Evaporated Epitaxial Y-Ba-Cu-O Thin Films", J. Less-Common Metals 151 (1989) 413.
82. J. Schützmann, W. Ose, J. Keller, K.F. Renk, B. Roas, L. Schultz, G. Saemann-Ischenko, "Far-Infrared Reflectivity and Dynamical Conductivity of an Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Film", Europhys. Lett. 8 (1989) 679.
83. L. Schultz, K. Schnitzke, J. Wecker, "Preparation and Properties of Mechanically Alloyed Rare-Earth Permanent Magnets", J. Magn. Magn. Mat. 80 (1989) 115.
84. L. Schultz, "Mechanically Alloyed Amorphous Metals and Permanent Magnets" (japanisch), Advanced New Materials Technology Manual (Japan) (1989) S.147.
85. L. Schultz, B. Roas, P. Schmitt, G. Endres, "Preparation and Characterization of Pulsed Laser Deposited HTSC Films", in: "Processing of Films for High T_c Superconducting Electronics", SPIE Proc. Vol. 1187 (1989) S. 204.
86. L. Schultz, "Basic Phenomena of Glass Formation by Mechanical Alloying", in: E. Arzt und L. Schultz (eds.), Proc. DGM Conference on New Materials by Mechanical Alloying Techniques, Calw-Hirsau, October 1988, DGM Informationsgesellschaft, Oberursel 1989, S. 53.
87. L. Schultz, K. Schnitzke, J. Wecker, "Mechanically Alloyed Nd-Fe-B Permanent Magnets", in: E. Arzt und L. Schultz (eds.), Proc. DGM Conference on New Materials by Mechanical Alloying Techniques, Calw-Hirsau, October 1988, DGM Informationsgesellschaft, Oberursel 1989, S. 299.
88. C. Sürgers, H. v. Löhneysen, L. Schultz, "Specific Heat of Mechanically Alloyed Amorphous $\text{Zr}_{0.7}\text{Ni}_{0.3}$ ", Phys. Rev. B 40 (1989) 8787.
89. J. Wecker, L. Schultz, "Magnetic Hardening of Pr-Fe-Co-B Alloys by Rapid Quenching" Appl. Phys. Lett. 54 (1989) 393.
90. J. Wecker, L. Schultz, "Coercivity of metastable (Nd,Pr)-Fe-Co-B Alloys by Rapid Quenching", J. Magn. Magn. Mat. 80 (1989) 97.

91. J. Dengler, G. Ritter, G. Saemann-Ischenko, B. Roas, L. Schultz, B. Molnar, D.L. Nagy, I.S. Szücs, "A CEMS Study of a c-Axis Oriented Thin Film of $\text{YBa}_2(\text{Cu}_{0.97}\text{Fe}_{0.03})_3\text{O}_7$ ", *Hyperfine Interactions* 55 (1990) 1267.
92. R. Dill, J. Otto, G. Riha, P. Russer, L. Schultz, G. Sölkner, A.A. Valenzuela, E. Wolfgang, "Testchip for High Temperature Superconductor Passive Devices", Proc. MTT Conf., Dallas, May 1990, in: IEEE MTT-S Digest (1990), S. 863.
93. J. Ding, M. Rosenberg, L. Schultz, K. Schnitzke, "Mößbauer Spectroscopy of Mechanically Alloyed $\text{Sm}_{24}\text{Fe}_{66}\text{Ti}_{10}$ ", *Solid State Commun.* 76 (1990) 971.
94. J. Eckert, L. Schultz, K. Urban, "Phase Transitions and Quasicrystal Formation in Al-Cu-Mn Induced by Ball Milling", *Europhys. Lett.* 13 (1990) 349.
95. J. Eckert, L. Schultz, K. Urban, "Phase Formation and Extended Solubilities in Mechanically Alloyed Co-Transition Metal Alloys", *J. Less-Common Metals* 166 (1990) 293.
96. J. Eckert, L. Schultz, K. Urban, "Compositional Dependence of Quasicrystal Formation in Mechanically Alloyed Al-Cu-Mn", *J. Less-Common Metals* 167 (1990) 143.
97. J. Eckert, L. Schultz, K. Urban, "Progress of Quasicrystal Formation during Mechanical Alloying in Al-Cu-Mn and the Influence of the Milling Intensity", *Z. Metallkde.* 81 (1990) 862.
98. J. Eckert, L. Schultz, "Preparation of Multilayers for Amorphization by Solid-State Reaction", Proc. Int. Symp. on Amorphization by Solid-State Reaction, Grenoble, Februar 1990, in: *Colloque de Physique* 51 (1990) C4-229.
99. G. Endres, B. Roas, K.J. Schmatjko, L. Schultz, "Laserdeposition von supraleitenden YBaCuO -Dünnfilmen mit dem Excimerlaser", *Opto Elektronik Magazin* 6 (1990) 66.
100. G. Endres, B. Roas, L. Schultz, K.J. Schmatjko, "Dünnsschichterzeugung mit einem Hochenergie-Excimerlaser am Beispiel der Hoch- T_c -Supraleiter", in: *Laser/Optoelektronik in der Technik*, ed. W. Waidelich, 1990, S. 723.
101. J. Heitz, X.C. Wang, P. Schwab, D. Bäuerle, L. Schultz, "KrF Laser-Induced Ablation and Patterning of Y-Ba-Cu-O Films", *J. Appl. Phys.* 68 (1990) 2512.
102. M. Katter, J. Wecker, L. Schultz, R. Grössinger, "Preparation of Highly Coercive Sm-Fe-Ti by Rapid Quenching", *Appl. Phys. Lett.* 56 (1990) 1377.
103. M. Katter, J. Wecker, L. Schultz, R. Grössinger, "Magnetocrystalline Anisotropy of $\text{Sm}_2\text{Fe}_{17}\text{N}_2$ ", *J. Magn. Magn. Mater.* 92 (1990) L14.
104. M. Katter, J. Wecker, L. Schultz, "Magnetic Properties of the $\text{Sm}_{20}\text{Fe}_{70}\text{Ti}_{10}$ Phase", *IEEE Trans. Magn.* 26 (1990) 1379.
105. W. Kautek, B. Roas, L. Schultz, "Pulsed Laser Deposition of High T_c Superconductor Films in the Ultraviolet, Visible and Near-Infrared Range", *J. Less-Common Metals* 164 & 165 (1990) 292.
106. W. Kautek, B. Roas, L. Schultz, "Formation of Y-Ba-Cu-Oxide Thin Films by Pulsed Laser Deposition: a Comparative Study in the UV, VIS and IR Range", *Thin Solid Films* 191 (1990) 317.
107. N. Klein, H. Chaloupka, G. Müller, S. Orbach, H. Piel, B. Roas, L. Schultz, U. Klein, M. Peiniger, "The Effective Microwave Surface Impedance of High- T_c Thin Films", *J. Appl. Phys.* 67 (1990) 6940.
108. N. Klein, H. Chaloupka, G. Müller, S. Orbach, H. Piel, H. Soltner, U. Poppe, K. Urban, B. Roas, L. Schultz, J. Geerk, F. Vassenden, P. Berberich, H. Kinder, K. Renk, J. Schützmann, "Millimeter Wave Surface Impedance and Far Infrared Reflectivity of Epitaxially Grown High Tc Thin Films", Proc. 15th Conf. of Infrared and Millimeter Waves, Orlando, Dez. 1990.
109. D. Kölle, F. Kober, M. Hartmann, R. Gross, R.P. Huebener, B. Roas, L. Schultz, G. Saemann-Ischenko, "Spatially Resolved Measurements of the Resistive Transition in Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ -Films", *Physica C* 167 (1990) 79.
110. C. Köstler, L. Schultz, G. Thomas, "Microstructure of Mechanically Alloyed $\text{Fe}_{78}\text{Mo}_{10}\text{Sm}_{12}$ Magnets with the ThMn_{12} Structure", *J. Appl. Phys.* 67 (1990) 2532.
111. K.F. Renk, J. Schützmann, A. Prückl, B. Roas, L. Schultz, G. Saemann-Ischenko, "Far Infrared Reflectivity and Absorptivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films", *Physica B* 165 & 166 (1990) 1253.
112. K.F. Renk, J. Schützmann, A. Prückl, W. Ose, B. Roas, L. Schultz, G. Saemann-Ischenko, "Far Infrared Excitations in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films", Proc. Int. Winterschool on Electronic Properties of High Temperature Superconductors, IWEPS 90, Kirchberg, März 1990; in: Springer Series in Solid-State Sciences, Vol. 99 (1990) S. 275.
113. B. Roas, L. Schultz, G. Saemann-Ischenko, "Anisotropy of the Critical Current Density in Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_x$ Films", *Phys. Rev. Lett.* 64 (1990) 479.

114. B. Roas, L. Schultz, B. Hensel, S. Henke, G. Saemann-Ischenko, S. Klaumünzer, B. Kabius, K. Urban, W. Watanabe, "Effects of 173 MeV ^{129}Xe Irradiation on Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_x$ Films", *Europhys. Lett.* **11** (1990) 669.
115. B. Roas, P. Schmitt, W. Schindler, B. Hensel, P. Kummeth, L. Schultz, G. Saemann-Ischenko, "Critical Current Densities in Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$ Films", Proc. 3rd German-Soviet Bilateral Seminar on High-Temperature Superconductivity, Karlsruhe, Oktober 1990, S. 354.
116. W. Schindler, B. Roas, G. Saemann-Ischenko, L. Schultz, H. Gerstenberg, "Anisotropic Enhancement of the Critical Current Density of Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films by Fast Neutron Irradiation", *Physica C* **169** (1990) 117.
117. P. Schmitt, L. Schultz, G. Saemann-Ischenko, "Electrical Properties of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$ Thin Films Prepared in-situ by Pulsed Laser Deposition", *Physica C* **168** (1990) 475.
118. P. Schmitt, L. Schultz, "Laserdeposition of High- j_c $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$ Thin Films", Proc. Int. Cryogenic Materials Conf. (ICMC '90) on High-Temperature Superconductors - Materials Aspects, Garmisch, Mai 1990, S. 59.
119. K. Schnitzke, L. Schultz, J. Wecker, M. Katter, "Sm-Fe-Ti Magnets with Room-Temperature Coercivities above 50 kOe", *Appl. Phys. Lett.* **56** (1990) 587.
120. K. Schnitzke, L. Schultz, J. Wecker, M. Katter, "High Coercivity in $\text{Sm}_2\text{Fe}_{17}\text{N}_x$ Magnets", *Appl. Phys. Lett.* **57** (1990) 2853.
121. L. Schultz, "Formation of Amorphous Metals by Solid-State Reactions", *Phil. Mag. B* **61** (1990) 453.
122. L. Schultz, K. Schnitzke, J. Wecker, "High Coercivity in Mechanically Alloyed Sm-Fe-V Magnets with ThMn_{12} Crystal Structure", *Appl. Phys. Lett.* **56** (1990) 868.
123. L. Schultz, K. Schnitzke, J. Wecker, M. Katter, "High Coercivities in Sm-Fe-TM Magnets", *IEEE Trans. Magn.* **26** (1990) 1373.
124. L. Schultz, K. Schnitzke, J. Wecker, "Magnetic Hardening of Sm-Fe-Mo, Sm-Fe-V and Sm-Fe-Ti Magnets", *J. Magn. Magn. Mater.* **83** (1990) 254.
125. L. Schultz, B. Roas, P. Schmitt, G. Endres, "High- T_c -Superconductor Thin Films by Laser Deposition", Proc. 3rd European Conf. on Laser Treatment of Materials (ECLAT'90), Erlangen, September 1990, S. 835.
126. L. Schultz, M. Katter, "Intrinsic Properties and Coercivity of Sm-Fe-TM Phases", Proc. NATO Adv. Study Inst. on Supermagnets, Hard Magnetic Materials, Il Ciocco, Juni 1990, S. 227.
127. L. Schultz, "Preparation and Properties of Mechanically Alloyed Nd-Fe-B Magnets", Proc. NATO Adv. Study Inst. on Supermagnets, Hard Magnetic Materials, Il Ciocco, Juni 1990, S. 573.
128. L. Schultz, "Critical Currents and rf Properties of Laser-Deposited High T_c Films", Proc. 4th Annual Conf. on Superconductivity and Applications, Buffalo, September 1990, in: AIP Conf. Proc., Vol. 219, S. 343.
129. J. Wecker, M. Katter, K. Schnitzke, L. Schultz, "Magnetic Properties of Sm-Fe-Ti Alloys", *J. Appl. Phys.* **67** (1990) 4951.
130. J. Wecker, L. Schultz, "Effect of Zr and Nb additions on the microstructure and the magnetic properties of melt spun Nd-Fe-B and Nd-Fe-Co-B", *J. Magn. Magn. Mater.* **83** (1990) 189.
131. J. Wecker, M. Katter, L. Schultz, K. Schnitzke, "The Potential of Sm-Fe-X Alloys for Permanent Magnets", Proc. 6th Int. Symp. on Magnetic Anisotropy and Coercivity in Rare Earth-Transition Metal Alloys, Pittsburgh, October 1990, S. 94.
132. J. Eckert, L. Schultz, K. Urban, "Formation of Quasicrystalline and Amorphous Phases in Mechanically Alloyed Al-Based and Ti-Ni-Based Alloys", *Acta Metall.* **39** (1991) 1497.
133. J. Eckert, L. Schultz, K. Urban, "Interdiffusion Reaction, Phase Sequence and Glass Formation in Ni-Zr Composites", *J. Mater. Research* **6** (1991) 1874.
134. J. Eckert, L. Schultz, K. Urban, "Quasicrystal Formation and Phase Transitions by Ball Milling", *Mater. Sci. Eng.* **A133** (1991) 393.
135. J. Eckert, L. Schultz, K. Urban, "Comparison of Solid-State Amorphization by Mechanical Alloying or Interdiffusion in Ni-Zr", *Mater. Sci. Eng.* **A134** (1991) 1389.
136. J. Eckert, L. Schultz, K. Urban, "Amorphization Reaction during Mechanical Alloying: Influence of the Milling Conditions", *J. Mater. Sci.* **26** (1991) 441.
137. J. Eckert, L. Schultz, K. Urban, "Synthesis of Ni-Ti and Fe-Ti Alloys by Mechanical Alloying: Formation of Amorphous Phases and Extended Solid Solutions", *J. Non-Crystalline Solids* **127** (1991) 90.
138. J. Eckert, L. Schultz, K. Urban, "Comparison of Glas Formation by Mechanical Alloying and Solid-State Interdiffusion in Ni-Zr Composites", *J. Non-Crystalline Solids* **130** (1991) 273.
139. G. Friedl, B. Roas, M. Römhild, L. Schultz, W. Jutzi, "Transport Properties of Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_x$ -Films at Step Edges", *Appl. Phys. Lett.* **59** (1991) 2751.

140. G. Friedl, B. Roas, L. Schultz, B. Hillenbrand, "Investigations of the Transport Properties of $\text{YBa}_2\text{Cu}_3\text{O}_x$ -Current Leads over Step Edges in Regard to an All-Epitaxial HTSC-Wiring", Proc. 3rd ISEC, Glasgow, Juni 1991, S. 357.
141. G. Friedl, B. Roas, M. Römhild, L. Schultz, W. Jutzi, "Investigations on Laser-Deposited $\text{YBa}_2\text{Cu}_3\text{O}_x$ -Current Leads over Step Edges and Step Edge DC-SQUIDs at 77K", Proc. 4th German-Soviet Bilateral Seminar on High-Temperature Superconductivity, St. Petersburg, Oktober 1991, S. 391.
142. B. Holzapfel, G. Friedl, L. Schultz, "Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_x$ Thin Films and Multilayers for Electronic Applications", Proc. 2nd European Conf. on Advanced Materials EUROMAT '91, Cambridge, Juli 1991.
143. W. Kautek, B. Roas, L. Schultz, "Thin Film Formation by Y-Ba-Cu-Oxide Pulsed Laser Evaporation: a Comparative Study in the UV, VIS and IR Range", Proc. Int. Cryogenic Materials Conf. (ICMC '90) on High-Temperature Superconductors - Materials Aspects, Garmisch, Mai 1990, S. 473 (1991).
144. M. Katter, J. Wecker, L. Schultz, "Structural and Hard Magnetic Properties of Rapidly Solidified Sm-Fe-N", J. Appl. Phys. 70 (1991) 3188.
145. M. Katter, J. Wecker, L. Schultz, "Magnetic Properties of Melt-Spun $(\text{Y}_{1-x}\text{Sm}_x)_{0.6}\text{Zr}_{0.4}\text{Fe}_{2.9}$ ", Mater. Sci. Eng. A133 (1991) 154.
146. X.C. Kou, R. Grössinger, M. Katter, J. Wecker, L. Schultz, T.H. Jacobs, K.H.J. Buschow, "Intrinsic Magnetic Properties of $\text{R}_2\text{Fe}_{17}\text{C}_y\text{N}_x$ Compounds ($\text{R} = \text{Y}, \text{Sm}, \text{Er}, \text{and Tm}$)", J. Appl. Phys. 70 (1991) 2272.
147. X.C. Kou, R. Grössinger, X. Li, J.P. Liu, F.R. de Boer, M. Katter, J. Wecker, L. Schultz, T.H. Jacobs, K.H.J. Buschow, "Magnetic Phase Transition and Magnetocrystalline Anisotropy of $\text{Sm}_2\text{Fe}_{17}\text{C}_x\text{N}_y$ ", J. Appl. Phys. 70 (1991) 6015.
148. C. Kuhrt, L. Schultz, K. Schnitzke, S. Hock, R. Behrensmeier, "High-Temperature Compressive Plastic Deformation of $\text{Nd}_2\text{Fe}_{14}\text{B}$ Single Crystals", Appl. Phys. Lett. 59 (1991) 1418.
149. W.M. Kuschke, L. Schultz, P. Lamarter, S. Steeb, "X-Ray and Neutron Diffraction of Amorphous Nickel-Zirconium-Alloys as Prepared in Different Ways", Z. Naturforschung 46a (1991) 491.
150. V.E. Martin, J.M. Gonzales, L. Schultz, K. Schnitzke, "On the Amorphization of the Nd-Fe and Sm-Fe Systems by Mechanical Alloying", Proc. 3rd Int. Workshop on Non-Crystalline Solids, Matalascanas, November 1991.
151. C. Michaelsen, L. Schultz, "Structural Study of Amorphous Zr-Fe-B and Zr-Fe-Si Alloys by ^{57}Fe -Mössbauer and Magnetization Measurements", Acta metall. mater. 39 (1991) 987.
152. B. Roas, G. Friedl, B. Holzapfel, H. Busch, A. Müller, L. Schultz, "Basic Elements of High T_c Superconductor Wiring", Proc. Int. Conf. on Advanced Materials ICAM '91, Strasbourg, Mai 1991, S. 833.
153. B. Roas, G. Friedl, L. Schultz, "Basic Elements of High Temperature Superconductor Wiring", Proc. M²S-HTSC, Kanazawa, Juli 1991; in Physica C 185-189 (1991) 2595.
154. K.J. Schmatjko, B. Roas, G. Endres, L. Schultz, "Deposition of Thin Films by High-Energy Excimer Laser Ablation", Proc. Int. Congress Opt. Sci. Eng., SPIE 1279 (1991) S.135.
155. P. Schmitt, P. Kummeth, L. Schultz, G. Saemann-Ischenko, "Two-Dimensional Behavior and Critical-Current Anisotropy in Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Thin Films", Phys. Rev. Lett. 67 (1991) 267.
156. P. Schmitt, L. Schultz, G. Saemann-Ischenko, "Anisotropic Critical Current Density and Two-Dimensionality of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Epitaxial Thin Films", Proc. Int. Conf. on Advanced Materials ICAM '91, Strasbourg, Mai 1991, S. 31.
157. P. Schmitt, P. Kummeth, L. Schultz, G. Saemann-Ischenko, "Growth and Critical Current Anisotropy of Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Films", Proc. 2nd European Conf. on Advanced Materials EUROMAT '91, Cambridge, Juli 1991.
158. K. Schnitzke, L. Schultz, "Mechanisch legierte Hartmagnetwerkstoffe mit hoher Koerzitivfeldstärke", Tagungsband DGM-Symposium "Magnetwerkstoffe und Magnetsysteme", Bad Nauheim, October 1990, DGM Informationsgesellschaft 1991, S. 37.
159. L. Schultz, K. Schnitzke, J. Wecker, M. Katter, C. Kuhrt, "Permanent Magnets by Mechanical Alloying", J. Appl. Phys. 70 (1991) 6339.
160. L. Schultz, K. Schnitzke, J. Wecker, M. Katter, "High Coercivities in Mechanically Alloyed Sm-Fe-X Magnets", Mater. Sci. Eng. A133 (1991) 143.
161. L. Schultz, B. Roas, P. Schmitt, P. Kummeth, G. Saemann-Ischenko, "Comparison of the Critical Current Anisotropy in $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{O}_7$ Films", IEEE Trans. Magn. 27 (1991) 990.
162. L. Schultz, H. Busch, G. Friedl, B. Holzapfel, A. Müller, B. Roas, P. Schmitt, "Growth and Properties of Laser-Deposited and Chemical-Vapor-Deposited Epitaxial HTSC Films and Hetero-epitaxial Multilayers", Proc. 3rd Future Electron Devices Work-shop on High-Temperature Superconducting Electron Devices, Kumamoto, May 1991, S. 152.

163. L. Schultz, "Mechanically Alloyed Permanent Magnets", Proc. NATO Adv. Study Inst. on The Science and Technology of Nanostructured Magnetic Materials, Aghia Pelaghia 1990, NATO ASI Series B, Vol. 259 (1991) 583.
164. J. Wecker, M. Katter, K. Schnitzke, L. Schultz, "Magnetic Hardening of (Sm-Zr)Fe₃ Alloys", J. Appl. Phys. 69 (1991) 5847.
165. J. Wecker, M. Katter, L. Schultz, "Mechanically Alloyed Sm-Co Materials", J. Appl. Phys. 69 (1991) 6058.
166. J. Wecker, M. Katter, L. Schultz, "High Coercivity in Sm-Fe-Ti Alloys by Rapid Solidification", Mater. Sci. Eng. A133 (1991) 147.
167. X.F. Zhang, B. Kabius, K. Urban, P. Schmitt, L. Schultz, G. Saemann-Ischenko, "A TEM Study of Bi₂Sr₂CaCu₂O_x Superconducting Thin Films on SrTiO₃ Substrates", Physica C 183 (1991) 379.
168. R. Brüning, K. Samwer, C. Kuhrt, L. Schultz, "The Mixing of Iron and Cobalt During Mechanical Alloying", J. Appl. Phys. 72 (1992) 2978.
169. H. Chaloupka, H. Piel, A. Pischke, G. Gieres, M. Peiniger, L. Schultz, M. Bode, J. Schubert, "High-Temperature Superconductor Meander-Antenna", Proc. 1992 IEEE International Microwave Symp. MTT-S, Albuquerque, Juni 1992, in: 1992 IEEE MTT-S Internat. Symp. Digest, S 189.
170. B. Holzapfel, B. Roas, L. Schultz, P. Bauer, G. Saemann-Ischenko, "Off-Axis Laser Deposition of YBa₂Cu₃O_{7-x} Thin Films", Appl. Phys. Lett. 61 (1992) 3178.
171. M. Katter, J. Wecker, C. Kuhrt, L. Schultz, X.C. Kou, R. Grössinger, "Structural and Intrinsic Magnetic Properties of (Sm_{1-x}Nd_x)₂Fe₁₇N_{2.7} and (Sm_{1-x}Nd_x)₂(Fe_{1-z}Co_z)₁₇N_{2.7}", J. Magn. Magn. Mater. 111 (1992) 293.
172. M. Katter, J. Wecker, C. Kuhrt, L. Schultz, R. Grössinger, "Structural and Intrinsic Magnetic Properties of Sm₂(Fe_{1-x}Co_x)₁₇N_y", J. Magn. Magn. Mater. 114 (1992) 35.
173. M. Katter, J. Wecker, C. Kuhrt, L. Schultz, R. Grössinger, "Magnetic Properties and Thermal Stability of Sm₂Fe₁₇N_x with Intermediate Nitrogen Concentrations", J. Magn. Magn. Mater. 117 (1992) 419.
174. M. Katter, J. Wecker, C. Kuhrt, L. Schultz, R. Grössinger, "Intrinsic Magnetic Properties of Co- and Nd-substituted Sm₂Fe₁₇N_y", Proc. 2nd Int. Symposium on Physics of Magnetic Materials, Peking, July 1992, Suppl., S. 60.
175. C. Köstler, M. Chandramouli, G. Thomas, L. Schultz, "Microstructure of Mechanically Alloyed Nd₁₆Fe₇₆B₈ Magnets", J. Magn. Magn. Mater. 110 (1992) 264.
176. C. Kuhrt, K. O'Donnell, M. Katter, J. Wecker, K. Schnitzke, L. Schultz, "Pressure Assisted Zinc Bonding of Microcrystalline Sm₂Fe₁₇N_x Powders", Appl. Phys. Lett. 60 (1992) 3316.
177. C. Kuhrt, M. Katter, J. Wecker, K. Schnitzke, L. Schultz, "Mechanically Alloyed and Gas-Phase Carbonated Highly Coercive Sm₂Fe₁₇C_x Powders", Appl. Phys. Lett. 60 (1992) 2029.
178. C. Kuhrt, L. Schultz, "Formation and Magnetic Properties of Nanocrystalline Mechanically Alloyed Fe-Co", J. Appl. Phys. 71 (1992) 1896.
179. C. Kuhrt, L. Schultz, "Formation and Magnetic Properties of Nanocrystalline Mechanically Alloyed Fe-Co and Fe-Ni", Proc. 2nd Int. Symposium on Physics of Magnetic Materials, Peking, July 1992, Suppl., S. 143.
180. B. Roas, G. Friedl, L. Bär, F. Bömmel, G. Daalmans, L. Schultz, "Preparation and Characterization of Planar YBa₂Cu₃O_x Flux Transformers", Proc. Applied Superconductivity Conf. ASC '92, Chicago, August 1992; in: IEEE Trans. Superconductivity.
181. P. Schmitt, P. Kummeth, L. Schultz, B. Roas, G. Saemann-Ischenko, "Anisotropic Critical Current Densities of Bi₂Sr₂CaCu₂O_{8+x} and YBa₂Cu₃O_{7-x} Thin Films", Proc. 6th Int. Conf. on Critical Currents, Cambridge, July 1991, in: Supercond. Sci. Technol. 5 (1992) 101.
182. L. Schultz, "Mechanically Alloyed Permanent Magnets", Proc. Int. Symp. on Mechanical Alloying, Kyoto, May 1991; in: Materials Science Forum 88-90 (1992) 687.
183. L. Schultz, "Nd-Fe-B and Sm-Fe Interstitial Magnets by Mechanical Alloying", Proc. Conf. on Rare Earth Permanent Magnets and Ultra High Saturation/Low Loss Magnetic Materials, London, März 1992.
184. L. Schultz, K. Schnitzke, C. Kuhrt, "Mechanically Alloyed Nd-Fe-B and Sm-Fe-N Magnets", Proc. 2nd Int. Symposium on Physics of Magnetic Materials, Peking, July 1992, Suppl., S. 87.
185. P. Seng, R. Gross, U. Baier, M. Rupp, D. Koelle, R.P. Huebener, P. Schmitt, G. Saemann-Ischenko, L. Schultz, "Dissipative Flux Motion in Epitaxial YBa₂Cu₃O_{7-x} and Bi₂Sr₂CaCu₂O_{8+x} Films", Physica C 192 (1992) 403.
186. J. Wecker, L. Schultz, M. Katter, K. Schnitzke, C. Kuhrt, "New Permanent Magnets and New Processing Techniques", J. Mater. Engg. and Performance 1 (1992) 175.

187. X.F. Zhang, B. Kabius, K. Urban, P. Schmitt, L. Schultz, G. Saemann-Ischenko, "Electron Microscope Investigation in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$ Superconducting Thin Films on (001) SrTiO_3 Substrates", *Physica C* **194** (1992) 253.
188. R.J. Zhou, M. Rosenberg, L. Schultz, K. Schnitzke, "Uniaxial Magnetic Anisotropy and Preferential Substitution of Zr for Sm on 6(c) sites in $\text{Sm}_{1-x}\text{Zr}_x\text{Fe}_3$ Intermetallics", *J. Magn. Magn. Mater.* **109** (1992) 209.
189. T. Amrein, M. Seitz, D. Uhl, L. Schultz, K. Urban, "Thin Film $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Josephson Junctions and Direct Current Superconducting Quantum Interference Devices on (001) SrTiO_3 Bicrystals", *Appl. Phys. Lett.* **63** (1993) 1978.
190. T. Amrein, B. Kabius, J. Burger, L. Schultz, K. Urban, "Microstructure Investigations of the Epitaxial Growth of Ultrathin $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$ Superconducting Films on (001) SrTiO_3 Substrates", *J. Alloys and Compounds* **195** (1993) 129.
191. T. Amrein, M. Seitz, D. Uhl, L. Schultz, K. Urban, "Thin Film $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Josephson Junctions and dc-SQUIDs on (001) SrTiO_3 Bicrystals", Proc. European Conf. on Applied Superconductivity, Göttingen, Oktober 1993, DGM Informationsgesellschaft, Oberursel (1993) S. 1331.
192. G. Friedl, M. Seitz, B. Holzapfel, B. Roas, B. Stritzker, G. Daalmans, D. Uhl, B. Hillenbrand, L. Schultz, H.E. Hoenig, "Preparation and Properties of Thin Film $\text{YBa}_2\text{Cu}_3\text{O}_x$ Devices", *Physica C* **209** (1993) 287.
193. B. Holzapfel, G. Kreiselmeyer, G. Saemann-Ischenko, S. Bouffard, L. Schultz, "Dimensionality and Critical Current Anisotropy in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films and $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-x}$ Superlattices with Irradiation-Induced Linear Defects", *Phys. Rev. B* **48** (1993) 600.
194. B. Holzapfel, G. Kreiselmeyer, M. Kraus, S. Bouffard, S. Klaumünzer, L. Schultz, G. Saemann-Ischenko, "Effect of Columnar Defects on the Critical Current Anisotropy of Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films and $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-x}$ Multilayers", *J. Alloys and Compounds* **195** (1993) 411.
195. X.C. Kou, W.J. Qiang, H. Kronmüller, L. Schultz, "Coercivity of Sm-Fe-N Ferromagnets Produced by the Mechanical Alloying Technique", *J. Appl. Phys.* **74** (1993) 6791.
196. C. Kuhrt, L. Schultz, "Formation and Magnetic Properties of Nanocrystalline Mechanically Alloyed Fe-Co and Fe-Ni", *J. Appl. Phys.* **73** (1993) 6588.
197. C. Kuhrt, L. Schultz, "Phase Formation and Martensitic Transformation in Mechanically Alloyed Nanocrystalline Fe-Ni", *J. Appl. Phys.* **73** (1993) 1975.
198. C. Kuhrt, K. Schnitzke, L. Schultz, "Development of Coercivity in $\text{Sm}_2\text{Fe}_{17}(\text{N},\text{C})_x$ Magnets by Mechanical Alloying, Solid-Gas Reaction and Pressure-Assisted Zinc Bonding", *J. Appl. Phys.* **73** (1993) 6026.
199. C. Kuhrt, K. Schnitzke, J. Wecker, R. von Helmolt, L. Schultz, "Ti-Substituted Hard Magnetic Mechanically Alloyed $\text{Sm}_2\text{Fe}_{17}\text{N}_x$ ", *IEEE Trans. Magn.* **29** (1993) 2818.
200. C. Kuhrt, L. Schultz, "Magnetic Properties of Nanocrystalline Mechanically Alloyed Fe-M (M = Al,Si,Cu)", *IEEE Trans. Magn.* **29** (1993) 2667.
201. C. Kuhrt, H. Schröpf, L. Schultz, E. Arzt, "Synthesis of Nanocrystalline FeAl and NiAl by Mechanical Alloying", Proc. 2nd Int. Conf. on Structural Applications of Mechanical Alloying, ASM International, Vancouver, September 1993, S. 269.
202. N. Murillo, J. Gonzalez, F. Cebollada, V.E. Martin, J.M. Gonzalez, L. Schultz, "Phase Distribution and Magnetic Properties of Mechanically Alloyed Sm-Fe", *IEEE Trans. Magn.* **29** (1993) 2857.
203. M. Rosenberg, R.J. Zhou, M. Katter, L. Schultz, G. Filoti, " ^{57}Fe Hyperfine Fields and Magnetic Anisotropy of $\text{Sm}_2\text{Fe}_{17}\text{N}_x$ Interstitials with Intermediate Nitrogen Concentrations", *J. Appl. Phys.* **73** (1993) 6035.
204. T. Schuster, M.R. Koblischka, H. Kuhn, H. Kronmüller, G. Friedl, B. Roas, L. Schultz, "Flux Penetration into $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films Covering Substrate Step Edges", *Appl. Phys. Lett.* **62** (1993) 768.
205. R. von Helmolt, J. Wecker, B. Holzapfel, L. Schultz, K. Samwer, "Giant Negative Magnetoresistance in Perovskite-Like $\text{La}_{2/3}\text{Ba}_{1/3}\text{MnO}_x$ Ferromagnetic Films", *Phys. Rev. Lett.* **71** (1993) 2331.
206. R. von Helmolt, J. Wecker, C. Kuhrt, L. Schultz, K. Samwer, "Magnetic Properties and Stability of Melt Spun $\text{Nd}_5\text{Fe}_{17}$ ", *IEEE Trans. Magn.* **29** (1993) 2824.
207. J. Wecker, R. von Helmolt, L. Schultz, K. Samwer, "Giant Magnetoresistance in Melt Spun Cu-Co Alloys", *Appl. Phys. Lett.* **62** (1993) 1985.
208. J. Wecker, R. von Helmolt, L. Schultz, K. Samwer, "Magnetoresistance in Bulk Cu-Co Based Alloys", *IEEE Trans. Magn.* **29** (1993) 3087.
209. R.J. Zhou, M. Rosenberg, M. Katter, L. Schultz, "A Mößbauer Spectroscopy Study of $\text{Sm}_2\text{Fe}_{17}\text{N}_x$ with Intermediate Nitrogen Concentrations ($0 \geq x \geq 2.94$)", *J. Magn. Magn. Mater.* **118** (1993) 110.

210. U. Daehne, T. Amrein, Y. Goncharov, N. Klein, G. Kozlov, L. Schultz, N. Tellmann, K. Urban, *Temperature Dependence of the Millimeter-Wave Conductivity of $YBa_2Cu_3O_7$ and $Bi_2Sr_2CaCu_2O_8$ Thin Films at 300 GHz*, Physica C 235 (1994) 2066 – 2067.
211. B. Holzapfel, M. Leghissa, P. Bauer, G. Kreiselmeyer, M. Kraus, S. Bouffard, L. Schultz, G. Saemann-Ischenko, *Effect of Columnar Defects on the JC Anisotropy of $YBa_2Cu_3O_{7-x}$ Thin Films and $YBa_2Cu_3O_{7-x}/PrBa_2Cu_3O_{7-x}$ Multilayers*, J. Superconductivity 7 (1994) 205 – 207.
212. B. Holzapfel, B. Roas, L. Schultz, G. Saemann-Ischenko, *Off-Axis Laserdeposition of $YBa_2Cu_3O_{7-x}$ Thin Films and $SrTiO_3$ Insulation Layers*, Trans. Mat. Res. Soc. Jpn., Vol 17 (1994) 341.
213. B. Holzapfel, G. Kreiselmeyer, M. Kraus, S. Bouffard, S. Klaumünzer, L. Schultz, G. Saemann-Ischenko, *Effect of Columnar Defects on the Critical Current Anisotropy of Epitaxial $YBa_2Cu_3O_{7-x}$ Thin Films and $YBa_2Cu_{7-x}/PrBa_2Cu_3O_{7-x}$ Multilayers*, Trans. Mat. Res. Soc. Jpn., Vol 19A (1994) 525.
214. B. Kabius, J.W.Seo, T. Amrein, U. Dähne, A. Scholen, M. Siegel, K. Urban, L. Schultz, *Grain-Boundary Structure of Thin Films of $YBa_2Cu_3O_7$ and $Bi_2Sr_2CaCu_2O_8$ on Bicrystalline Substrates*, Physica C 231 (1994) 123 - 130.
215. C. Kapusta, M. Rosenberg, P.C. Riedi, M. Katter, L. Schultz, *Nuclear Magnetic Resonance Study of the $Sm_2Fe_{17}N_x$ Compounds*, J. Magn. Magn. Mater. 134 (1994) 106 - 112.
216. C. Kuhrt, H. Cerva, L. Schultz, *Nanostructure of Mechanically Alloyed Zinc-Bonded $Sm_2Fe_{17}N_x$ Magnets*, Appl. Phys. Lett. 64 (1994) 797 - 799.
217. H. Schröpf, C. Kuhrt, E. Arzt, L. Schultz, *Ordering versus Disordering Tendencies in Mechanically Alloyed (Ni_xFe_{1-x})Al Alloys*", Scripta Metall. et Mater. 30 (1994) 1569 - 1574.
218. L. Schultz, J. Eckert, *Mechanically Alloyed Glassy Metals*, in: "Glassy Metals III", H. Beck und H.J. Güntherodt (Hrsg.), Springer-Verlag, Berlin (1994) S. 69 - 120.
219. L. Schultz, C. Kuhrt, K. Schnitzke, J. Wecker, M. Katter, *Synthesis of Some Nitrides by Mechanical Alloying, their Hard Magnetic Properties and Amorphization by Nitrogenation*, Trans. Mat. Res. Soc. Jpn., Vol 16A (1994) 63.
220. J. Wecker, H. Cerva, C. Kuhrt, K. Schnitzke, L. Schultz, *Microstructure and Magnetic Properties of Mechanically Alloyed Anisotropic Nd-Fe-B*, J. Appl. Phys. 76 (1994) 6238 - 6240.
221. T. Amrein, L. Schultz, B. Kabius und K. Urban, "Orientation Dependence of Grain-Boundary Critical Current Densities in High-T_C Bicrystals", Phys. Rev. B 51 (1995) 6792.
222. T. Amrein, L. Schultz, K. Urban, *Low-Noise dc Superconducting Quantum Interference Devices in $Bi_2Sr_2CaCu_2O_{8+x}$ Thin Films*, J. Appl. Phys. 77 (1995) 6703 - 6709.
223. J. Eckert, M. Seidel, L. Schultz, *Mechanically Alloyed Amorphous and Nanocrystalline Zr-, Mg- and Al- Based Light Metal Alloys*, Proc. 1995 European Conf. on Advanced PM Materials, Birmingham, 1995, European Powder Metallurgy Assoc., Shrewsbury, 1995, S. 216.
224. R. Hermann, L. Schultz, K. O'Donnell, C. Kuhrt und D. Givord, *Magnetic Reversal in Single-Phase Nanocrystalline Sm-Fe-N Alloys and a Two-Phase Remanence-Enhanced ($Sm_2Fe_{17}N_3 + Fe$) Alloy*, J. Phys. D: Appl. Phys. 28 (1995) 2411 - 2417.
225. K.H. Müller, P.A.P. Wendhausen, N.M. Dempsey, V. Neu, W. Grünberger, L. Schultz, *Nanocrystalline Rare-Earth Transition-Metal Permanent Magnets*, Conf. Proc. ASM-TMS Materials Week, 1995, S. 429.
226. K.H. Müller, L. Schultz, *Neue Dauermagnete*, Phys. Bl. 51 (1995) 813.
227. M. Seidel, J. Eckert, H.D. Bauer, L. Schultz, *Formation of Amorphous and Nanocrystalline Phases in Mechanically Alloyed Zr-, Al-, and Mg-base Transition Metal Alloys*, Mater. Res. Soc. Symp. Proc. 362 (1995) 239.
228. M. Seidel, J. Eckert, L. Schultz, *Formation of Amorphous Zr-Al-Cu-Ni with Large Supercooled Liquid Region by Mechanical Alloying*, J. Appl. Phys. 77 (1995) 5446 - 5448.
229. M. Seidel, J. Eckert und L. Schultz, *Mechanically Alloyed Metallic Glasses with Significant Supercooled Liquid Region*, Proc. 4th European Conf. on Advanced Materials and Processes (EUROMAT '95), Venedig/Padua, 1995, S. 277.
230. M. Seidel, J. Eckert, L. Schultz, *Mechanically Alloyed Zr-Ti-Cu-Ni Amorphous Alloys with significant Supercooled Liquid Region*, Materials Lett. 23 (1995) 299 - 304.
231. C. Stiller, J. Eckert, S. Roth, R. Schäfer, U. Klement, L. Schultz, *Structural and Magnetic Properties of Mechanically Alloyed Fe-TM-B Based Alloys (TM = Zr, Nb)*, Proc. 4th European Conf. on Advanced Materials and Processes (EUROMAT '95), Venedig/Padua, 1995, S. 271.

232. V. Betz, B. Holzapfel, L. Schultz, *Biaxially Aligned YSZ Buffer Layers for YBCO Tapes on Technical Substrates with Ion-Beam Assisted Pulsed Laser Deposition and in situ RHEED Texture Analysis*, Czech. J. of Phys. 46 (1996) 1515 - 1516.
233. L. Cao, A. Handstein, L. Schultz, K.H. Müller, *Microstructural and Magnetic Properties of Sm₂Fe₁₅Ga₂C₂ Permanet Magnets*, J. Magn. Magn. Mater. 157/158 (1996) 95 - 96.
234. L. Cao, K.H. Müller, A. Handstein, W. Grünberger, V. Neu, L. Schultz, *High Performance Sm₂Fe₁₅Ga₂C₂ Permanet Magnets Made by Mechanical Alloying and Hot Pressing*, J. Phys. D: Appl. Phys. 29 (1996) 271 - 273.
235. L. Cao, A. Handstein, W. Grünberger, J. Edelmann, L. Schultz, K.H. Müller, *Highly Coercive Sm₂Fe₁₅Ga₂C₂ Magnets Made by Intense Ball Milling*, Appl. Phys. Letters 68 (1996) 129 - 131.
236. L. Cao, A. Handstein, W. Grünberger, H.D. Bauer, K.H. Müller, L. Schultz, *Highly Dense Sm₂Fe_{17-x}Ga_xC_y Permanent Magnets*, Proc. 14th Int. Workshop on Rare-Earth Magnets and their Applications, Sao Paulo (1996) 57.
237. J. Eckert, M. Seidel, L. Schultz, *Bulk Metallic Glasses with Significant Supercooled Liquid Region Prepared by Mechanical Alloying*, Mat. Sci. Forum 225-227 (1996) 113 - 118.
238. J. Eckert, M. Seidel, L. Schultz, *Formation of Amorphous Alloys with Significant Supercooled Liquid Region by Mechanical Alloying*, J. Non-Cryst. Solids 205-207 (1996) 500 - 503.
239. G. Fuchs, T. Staiger, P. Verges, K. Fischer, A. Gladun, L. Schultz, *The Effect of Weak Links on the Critical Current in (Bi,Pb)₃Sr₂Ca₂Cu₃O₁₀ Silver-Sheathed Tapes*, Czech. J. of Phys. 46 (1996) 1699 - 1700.
240. W. Grünberger, D. Hinz, D. Schläfer, L. Schultz, *Microstructure, Texture, and Magnetic Properties of Backward Extruded Nd-Fe-B Ring Magnets*, J. Magn. Magn. Mater. 157/158 (1996) 41 - 42.
241. A. Handstein, J. Wecker, K. Schnitzke, D. Hinz, L. Schultz, *Mechanically Alloyed Anisotropic Nd-Fe-B Powder*, J. Magn. Magn. Mater. 157/158 (1996) 15 - 16.
242. A. Hütten, A. Handstein, D. Eckert, K.H. Müller, L. Schultz, *Giant Magnetoresistance in Pseudo-Binary Bulk Alloys*, IEEE Trans. Magnetics 32 (1996) 4695 - 4697.
243. U. Klement, N. Mattern, M. Müller, L. Schultz, *Transmission Electron Microscopy Investigations of the Microstructure of FeSiB-(Cu,Nb) - Alloys*, Mat. Sci. Forum 225-227 (1996) 683 - 688.
244. V. Neu, U. Klement, R. Schäfer, J. Eckert, L. Schultz, *Remanence Enhancement in Mechanically Alloyed Two-Phase Nd-Fe-B Magnetic Material*, Materials Letters 26 (1996) 167 - 170.
245. V. Neu, P. Crespo, R. Schäfer, J. Eckert, L. Schultz, *High Remanence Nd-Fe-B-X (X = Cu, Si, Nb-Cu, Zr) Powders by Mechanical Alloying*, J. Magn. Magn. Mater. 157/158 (1996) 61 - 62.
246. V. Neu, D. Eckert, L. Schultz, *Nanocrystalline, Two Phase Nd-Fe-B Powders with Co and Small Additions of Zr or Si*, Proc. 9th Int. Symp. on Magnetic Anisotropy and Coercivity in RE-TM Alloys, Sao Paulo (1996) 42.
247. V. Neu, J.B. Dunlop, L. Schultz, *Rietveld Analysis of Intensively Milled, Exchange Coupled, Nanocrystalline Nd-Fe-B: Microstructure and Magnetic Properties*, Proc. 9th Int. Symp. on Magnetic Anisotropy and Coercivity in RE-TM Alloys, Sao Paulo (1996) 337.
248. S. Parhofer, G. Gieres, J. Wecker, L. Schultz, *Structure and magnetic properties of Nd-Fe-B thin films*, J. Magn. Magn. Mater. 157/158 (1996).
249. S. Parhofer, G. Gieres, J. Wecker, L. Schultz, *Growth Characteristics and Magnetic Properties of Sputtered Nd-Fe-B Thin Films*, J. Magn. Magn. Mater. 163 (1996) 32 - 38.
250. S. Parhofer, J. Wecker, C. Kuhrt, G. Gieres, L. Schultz, *Remanence Enhancement Due to Exchange Coupling in Multilayers of Hard- and Softmagnetic Phases*, IEEE Trans. Magn. 32 (1996) 4437 - 4439.
251. R. Schäfer, S. Roth, C. Stiller, J. Eckert, U. Klement, L. Schultz, *Domain Studies on Mechanically Alloyed Fe-Zr-B-Cu - Nanocrystalline Powder*, IEEE Trans. Magn. 32 (1996) 4383 - 4385.
252. M. Seidel, J. Eckert, H.D. Bauer, L. Schultz, *Mechanically Alloyed Zr-Based Metallic Glasses with Significant Supercooled Liquid Region*, Mat. Sci. Forum 225-227 (1996) 119 - 124.
253. M. Seidel, J. Eckert, E. Zueco-Rodrigo, L. Schultz, *Mg-Based Amorphous Alloys with Extended Supercooled Liquid Region Produced by Mechanical Alloying*, J. Non-Cryst. Solids 205-207 (1996) 514.
254. C. Stiller, J. Eckert, S. Roth, R. Schäfer, U. Klement, L. Schultz, *Mechanically Alloyed Fe-(Zr, B)-Cu Alloys: Effect of Composition and Heat Treatment on the Microstructure and the Magnetic Properties*, J. Non-Cryst. Solids 205-207 (1996) 620.
255. C. Stiller, J. Eckert, S. Roth, R. Schäfer, U. Klement, L. Schultz, *The Influence of Alloy Composition and Thermal Treatment on Structural and Magnetic Properties of Mechanically Alloyed Fe-Transition Metal-Based Alloys*, Mat. Sci. Forum 225-227 (1996) 695 - 700.

256. P. Stoye, G. Fuchs, G. Krabbes, P. Schätzle, T. Staiger, K.H. Müller, L. Schultz, W. Gawalek, P. Görnert, A. Gladun, *Melt Textured YBCO: High Trapped Fields and Superconducting Bearings*, J. Low Temp. Phys. 105 (1996) 1457 - 1462.
257. V. Betz, B. Holzapfel, L. Schultz, *In Situ RHEED Analysis of Biaxially Oriented YSZ Thin Films Grown by Ion-Beam Assisted Laser Deposition on Amorphous Substrates*, Thin Solid Films 301 (1997) 28 - 31.
258. V. Betz, B. Holzapfel, L. Schultz, *Growth of Biaxially Aligned Buffer Layers for YBCO Tapes by Ion-Beam Assisted Laser Deposition and in situ RHEED Texture Analysis*, IEEE Trans. Applied Superconductivity 7 (1997) 1436 - 1439.
259. V. Betz, B. Holzapfel, G. Sipos, W. Schmidt, N. Mattern, L. Schultz, *Growth Mechanisms for In-Plane Aligned YSZ Buffer Layers Deposited on Polycrystalline Metallic Substrates by Ion-Beam Assisted Deposition*, Proc. EUCAS '97, Twente, Juli 1997; in: Applied Superconductivity 2 (1997) 1081 - 1084.
260. V. Betz, B. Holzapfel, D. Raouser, L. Schultz, *In-Plane Aligned Pr₆O₁₁ Buffer Layers by Ion-BHGeam Assisted Pulsed Laser Deposition on Metal Substrates*, Appl. Phys. Letters 71 (1997) 2952 - 2954.
261. P. Crespo, V. Neu, L. Schultz, *Mechanically Alloyed Nanocomposite Powders of Nd₂Fe₁₄B/α-Fe with Additional Elements*, J. Phys. D: Appl. Phys. 30 (1997) 2298 - 2303.
262. J. Eckert, M. Seidel, N. Schlorke, A. Kübler, L. Schultz, *Solid State Processing of Bulk Metallic Glass Forming Alloys*, Mat. Sci. Forum 235-238 (1997) 23 - 28.
263. J. Eckert, K. Jost, O. de Haas, L. Schultz, *Phase Formation and Properties in Mechanically Alloyed and Ball Milled RE-TM-Borocarbides*, Mat. Sci. Forum 235-238 (1997) 133 - 138.
264. J. Eckert, K. Jost, L. Schultz, *Synthesis and Properties of Mechanically Alloyed Y-Ni-B-C*, Materials Letters 31 (1997) 329 - 333.
265. J. Eckert, N. Schlorke, C.A.R.T. Miranda, L. Schultz, *Phase Formation and Properties of Mechanically Alloyed Mg-Based Multicomponent Light-Weight Alloys*, Proc. 1997 TMS Annual Meeting, Orlando, Februar (1997) 383.
266. J. Eckert, N. Mattern, M. Seidel, L. Schultz, *The Effect of Iron and Oxygen Additions on the Properties of Zr-Al-Cu-Ni Bulk Metallic Glass Forming Alloys*, Proc. MRS Fall Meeting, Boston, Dezember 1996, Mater. Res. Soc. Symp. Proc. Vol. 455 (1997) 465.
267. G. Fuchs, S. Gruß, G. Krabbes, P. Schätzle, K.H. Müller, J. Fink, L. Schultz, "Trapped Field Magnets from Melt Textured YBCO Samples", Proc. EUCAS '97, Twente, Juli 1997; in: Applied Superconductivity 2 (1997) 1575 - 1578 und IOP Conf. Series 158 (1997) 1575 - 1578.
268. G. Fuchs, G. Krabbes, P. Schätzle, S. Gruß, P. Stoye, T. Staiger, K.H. Müller, J. Fink, L. Schultz, *High Trapped Fields in Bulk YBa₂Cu₃O_{7-x} Samples at Temperatures Around 50 K*, Appl. Phys. Letters 70 (1997) 117 - 119.
269. A. Gebert, K. Mummert, J. Eckert, L. Schultz, A. Inoue, *Electrochemical Investigations on the Bulk Glass Forming Zr₅₅Cu₃₀Al₁₀Ni₅ Alloy*, Materials and Corrosion 48 (1997) 293 - 297.
270. W. Grünberger, D. Hinz, A. Kirchner, K.-H. Müller, L. Schultz, *Hot Deformation of Nanocrystalline Nd-Fe-B Alloys*, J. Alloys and Compounds 257 (1997) 293 - 301.
271. W. Grünberger, D. Hinz, A. Kirchner, K.H. Müller, L. Schultz, *Hot Deformation of Nanocrystalline Nd-Fe-B Alloys*, IEEE Trans. Magn. MAG-33 (1997) 3889 - 3891.
272. U. Grundmann, M. Heilmayer, L. Schultz, *High Temperature Deformation Behaviour of Mechanically Alloyed Microcrystalline ODS Silver*, Scripta Materialia 37 (1997) 103 - 109.
273. U. Grundmann, M. Gerner, M. Heilmayer, U. Martin, L. Schultz, H. Oettel, *Deformation Behaviour of Oxide-Dispersion-Strengthened Silver*, Mater. Sci. Eng. A 234-236 (1997) 505 - 508.
274. K. Häse, B. Holzapfel, L. Schultz, *Superconducting YNi₂B₂C Thin Films Prepared by Pulsed Laser Deposition*, Physica C288 (1997) 28 - 32.
275. M. Heilmayer, F.E.H. Müller L. Schultz, *High Temperature Deformation Behaviour of the ODS Nickel-Base Superalloy PM 1000*, Proc. 14th Int. Plansee Seminar 1997, Reutte/Tirol, S. 844.
276. B. Holzapfel, A. Hüttner, D. Eckert, K.-H. Müller, L. Schultz, *Colossal Magnetoresistance in La_{1-x}Pb_xMnO₃ Thin Films Prepared by Pulsed Laser Deposition*, J. de Physique 7 C1 (1997) 637 - 638.
277. B. Idzikowski, A. Handstein, K.-H. Müller, L. Schultz, *Temperature Dependence of Magnetization of Amorphous Tm-Co-B Alloys; Mean Field Analysis*, Mat. Sci. Forum 235-238 (1997) 801 - 806.
278. K. Kämmer, H. Hülz, B. Holzapfel, W. Häßler, L. Schultz, *Electrode Influence on the Polarization Properties of BaTiO₃ Thin Films Prepared by Off-Axis Laser Deposition*, J. Phys. D: Applied Physics, 30 (1997) 522 - 526.
279. K. Kämmer, B. Holzapfel, H. Hülz, W. Häßler und L. Schultz, *Off-axis Laser Deposition and Characterization of Ba_{1-x}Sr_xTiO₃ Thin Films*, Ferroelectrics 201 (1997) 65 - 74.

280. M. Kubis, L. Cao, K.-H. Müller, L. Schultz, *Hydrogenation Disproportionation Desorption Recombination on Sm₂Fe₁₇Ga_x with High Ga Content (x ≥ 1) by Means of Reactive Grinding*, J. Phys. D: Appl. Phys. 30 (1997) L51 - 54.
281. M. Kubis, L. Cao, A. Handstein, B. Gebel, K.-H. Müller, L. Schultz, *Preparation of Sm₂Fe_{17-x}Ga_xN_yC_y Magnets by a Hydrogenation-Disproportionation-Desorption-Recombination Process*, J. Appl. Phys. 81 (1997) 6485 - 6487.
282. F.E.H. Müller, M. Heilmaier, L. Schultz, *The Influence of Texture and Grain Structure on the High Temperature Low-Cycle Fatigue Behaviour of the ODS Nickel-Base Superalloy PM 1000*, Mater. Sci. Eng. A 234-236 (1997) 509 - 512.
283. F.E.H. Müller, M. Heilmaier, L. Schultz, *Modelling the Tertiary Creep Behaviour of an ODS Nickel Based Alloy*, Computational Mater. Sci. 9 (1997) 85 - 91.
284. N. Schlorke, J. Eckert, L. Schultz, *Synthesis of Multicomponent Fe-Based Amorphous Alloys with Significant Supercooled Liquid Region by Mechanical Alloying*, Mater. Sci. Eng. A 226-228 (1997) 425 - 428.
285. N. Schlorke, J. Eckert, L. Schultz, *Formation and Properties of Amorphous and Nanocrystalline Phases in Mechanically Alloyed Fe-Based Multicomponent Alloys*, Proc. MRS Fall Meeting, Boston, Dezember 1996, Mater. Res. Soc. Symp. Proc. Vol. 455 (1997) 507.
286. N. Schlorke, J. Eckert, L. Schultz, *Bulk Mg-Based Glasses with Nanocrystalline Dispersions Prepared by Mechanical Alloying and Consolidation in the Viscous State*, Proc. Journées d'Automne, Société Française de Métallurgie et de Matériaux, December 1997, in La Revue de Metallurgie SF2M-JA97, S. 45.
287. M. Seidel, M. Reibold, I. Bächer, H.-D. Bauer, J. Eckert, L. Schultz, *Process of Solid State Reaction During Mechanical Alloying of Zr-Al-Cu-Ni Bulk Metallic Glass Forming Alloys*, Mater. Sci. Eng. A 226-228 (1997) 383 - 387.
288. M. Seidel, J. Eckert, L. Schultz, *The Effect of Milling Conditions and Impurities on the Properties of Mechanically Alloyed Zr-Based Metallic Glasses with Wide Supercooled Liquid Region*, Mat. Sci. Forum 235-238 (1997) 29 - 34.
289. T. Staiger, G. Fuchs, P. Verges, K. Fischer, L. Schultz, A. Gladun, *Critical Current in Silver-Sheathed Bi-2223 Tapes*, IEEE Trans. Appl. Superconductivity 7 (1997) 1347 - 1350.
290. C. Stiller, J. Eckert, R. Schäfer, S. Roth, L. Schultz, *The Influence of Processing Conditions on the Microstructure and the Magnetic Properties of Fe-Zr-Cu-(B)-Based Alloys Prepared by Mechanical Attrition*, Mat. Sci. Forum 235-238 (1997) 777 - 782.
291. C. Stiller, J. Eckert, P. Crespo, S. Roth, L. Schultz, *Structural and Magnetic Properties of Nanocrystalline (FeCu)₉₃Zr₇ Alloys Prepared by Mechanical Alloying*, Mater. Sci. Eng. A 226-228 (1997) 577 - 580.
292. R. Thielsch, K. Kaemmer, B. Holzapfel, L. Schultz, *Structure-Related Optical Properties of Laser-Deposited Ba_xSr_{1-x}TiO₃ Thin Films Grown on MgO(001) Substrates*, Thin Solid Films 301 (1997) 203 – 210.
293. H. Bitterlich, W. Löser, G. Behr, K. Nenkov, G. Fuchs, A. Belger, L. Schultz, *Magnetic Ordering and Superconductivity in Tb_xY_{1-x}Ni₂B₂C*, Physica C 308 (1998) 243 -250.
294. K. Dörr, K.H. Müller, E.S. Vlakhov, R.A. Chakalov, R.I. Chakalova, K.A. Nenkov, A. Handstein, B. Holzapfel, L. Schultz, *Magnetoresistance Effects of La_{0.7}M_{0.3}MnO_{3-x} (M = Ca, Pb) far below the CurieTemperature*, J. Appl. Phys. 83 (1998) 7079 - 7081.
295. J. Eckert, N. Schlorke, L. Schultz, *Mg-Based Lightweight Alloys Prepared by Mechanical Attrition and Consolidation in the Viscous State*, Proc. 1998 Powder Metallurgy World Congress, Granada, Oktober 1998, S. 311.
296. J. Eckert, M. Seidel, A. Kübler, U. Klement, L. Schultz, *Oxide Dispersion Strengthened Mechanically Alloyed Amorphous Zr-Al-Cu-Ni Composites*, Scripta Materialia 38 (1998) 595 - 602.
297. A.M. El-Aziz, G. Barkleit, M. Herrich, K. Mummert, L. Schultz, *Corrosion Behaviour of Permanent Magnetic Alloys*, Proc. 15th Int. Workshop on Rare-Earth Magnets and their Applications (L. Schultz and K.H. Mueller (eds.)), Dresden, September 1998, S. 905.
298. J. Freudenberger, S.L. Drechsler, G. Fuchs, A. Kreyssig, K. Nenkov, S.V. Shulga, K.H. Müller, L. Schultz, *Superconductivity and Disorder in Y_xLu_{1-x}Ni₂B₂C*, Physica C 306 (1998) 1 - 6.
299. J. Freudenberger, S.L. Drechsler, G. Fuchs, K. Nenkov, A. Handstein, M. Wolf, A. Kreyssig, K.H. Müller, M. Loewenhaupt, L. Schultz, *Breakdown of de Gennes Scaling in Ho_xLu_{1-x}Ni₂B₂C*, J. Magn. Magn. Mater. 187 (1998) 309 - 317.
300. A. Gebert, J. Eckert, H.-D. Bauer L. Schultz, *Characteristics of Slowly Cooled Zr-Al-Cu-Ni Bulk Samples with Different Oxygen Content*, Mater. Sci. Forum 269-272 (1998) 797 - 802.

301. A. Gebert, J. Eckert, L. Schultz, *Effect of Oxygen on Phase Formation and Thermal Stability of Slowly Cooled Zr₆₅Al_{7.5}Cu_{17.5}Ni₁₀ Metallic Glass*, Acta Mater. 46 (1998) 5475 - 5482.
302. D.S. Geoghegan, A. Hütten, K.H. Müller, L. Schultz, *Magnetoresistance of Melt-Spun Au-Co*, J. Magn. Magn. Mater. 177-181 (1998) 1478 - 1479.
303. S. Gruß, G. Fuchs, G. Krabbes, P. Schätzle, J. Fink, K.H. Müller, L. Schultz, *Superconducting Permanent Magnets from Bulk YBa₂Cu₃O_{7-x} Samples*, IEEE Trans. Magn. 34 (1998) 2099 - 2101.
304. O. Gutfleisch, M. Kubis, A. Handstein, K.H. Müller, L. Schultz, *Hydrogenation Disproportionation Desorption Recombination in Sm-Co Alloys by Means of Reactive Milling*, Appl. Phys. Letters 73 (1998) 3001 - 3003.
305. O. Gutfleisch, A. Kirchner, W. Grünberger, D. Hinz, H. Nagel, P. Thompson, J.N. Chapman, K.H. Müller, L. Schultz, I.R. Harris, *Textured NdFeB HDDR Magnets Produced by Die-Upsetting and Backward Extrusion*, J. Phys. D: Appl. Phys. 31 (1998) 807 - 811.
306. O. Gutfleisch, A. Kirchner, W. Grünberger, D. Hinz, R. Schäfer, L. Schultz, I.R. Harris und K.H. Müller, *Backward Extruded NdFeB Ring Magnets*, J. Magn. Magn. Mater. 183 (1998) 359 - 364.
307. R. Hermann, I. Baecher, W. Loeser, L. Schultz, *Formation of Nd₂Fe₁₄B by Quenching of Undercooled Nd-Fe-B Melts*, Proc. 15th Int. Workshop on Rare-Earth Magnets and their Applications (L. Schultz and K.H. Mueller (eds.)), Dresden, September 1998, S. 147.
308. A. Handstein, M. Kubis, O. Gutfleisch, B. Gebel, K.-H. Müller, I.R. Harris, L. Schultz, *Thermoanalytical Investigation of the Hydrogen Absorption Behaviour of Sm₂Fe_{17-x}Ga_x at High Hydrogen Pressures*, Proc. 15th Int. Workshop on Rare-Earth Magnets and their Applications (L. Schultz and K.H. Mueller (eds.)), Dresden, September 1998, S. 563.
309. B. Holzapfel, V. Betz, M.A. Arranz, N. Reger, L. Schultz, *Laser Ablated Buffer Layers for YBCO Tape Conductors*, Mat. Res. Soc. Symp. Proc. Vol. 526 (1998) 257.
310. A. Kirchner, W. Grünberger, O. Gutfleisch, V. Neu, K.H. Müller, L. Schultz, *A Comparison of the Magnetic Properties and Deformation Behaviour of Nanocrystalline Nd-Fe-B Magnets Made from Melt-Spun, Mechanically Alloyed and HDDR Powders*, J. Phys. D: Appl. Phys. 31 (1998) 1660 - 1666.
311. A. Kirchner, W. Grünberger, O. Gutfleisch, V. Neu, K.H. Müller, L. Schultz, *Effect of Grain Size on Magnetic Properties and Deformation Behaviour of NdFeB Magnets Made by Various Preparation Routes*, Proc. 15th Int. Workshop on Rare-Earth Magnets and their Applications (L. Schultz and K.H. Mueller (eds.)), Dresden, September 1998, S. 373.
312. M. Kubis, K.H. Müller, L. Schultz, O. Gutfleisch, I.R. Harris, *Hydrogenation and Disproportionation of Sm₂Fe_{17-x}Ga_x at High Hydrogen Pressures*, J. Appl. Phys. 83 (1998) 6905.
313. M. Kubis, W. Rave, L. Cao, B. Gebel, K.-H. Müller, L. Schultz, *Hydrogenation Disproportionation Desorption Recombination in Sm₂Fe₁₆M (M = Al, Ga and Si) and Magnetic Properties of their Carburized Powders*, J. Alloys and Compounds 281 (1998) 60 - 63.
314. M. Kubis, A. Handstein, O. Gutfleisch, B. Gebel, K.H. Müller, L. Schultz, *HDDR in Sm-Co Alloys – a New Method for Magnetic Hardening of Sm-Co Permanent Magnets*, Proc. 15th Int. Workshop on Rare-Earth Magnets and their Applications (L. Schultz and K.H. Mueller (eds.)), Dresden, September 1998, S. 527.
315. A. Kübler, J. Eckert, A. Gebert, L. Schultz, *Influence of Impurities on the Viscosity of Zr-Al-Cu-Ni Metallic Glasses in the Undercooled Liquid Region*, J. Appl. Phys. 83 (1998) 3438 - 3440.
316. A. Kübler, J. Eckert, A. Kirchner, L. Schultz, *Thermal Stability and Consolidation Behavior of Mechanically Alloyed Zr-Al-Cu-Ni Powders with Varying Oxygen, Iron and Tungsten Content*, Mater. Sci. Forum 269-272 (1998) 767 - 772.
317. A. Leonhard, L.Q. Xing, M. Heilmaier, A. Gebert, J. Eckert, L. Schultz, *Effect of Crystalline Precipitations on the Mechanical Behavior of Bulk Glass Forming Zr-Based Alloys*, Nanostructured Materials 10 (1998) 805 - 817.
318. J. van Lier, M. Kubis, W. Grünberger, L. Schultz, H. Kronmüller, *High Performance Sm_{2+x}Fe₁₅Ga₂C₂ Permanent Magnets Made by Melt Spinning and Hot Pressing*, J. Appl. Phys. 83 (1998) 5549.
319. S. Liesert, A. Kirchner, W. Grünberger, A. Handstein, P. de Rango, D. Fruchard, L. Schultz, K.H. Müller, *Preparation of Anisotropic NdFeB Magnets with Different Nd Contents by Hot Deformation (Die Upsetting) Using Hot Pressed HDDR Powders*, J. Alloys and Compounds 266 (1998) 260 - 265.
320. V. Neu, A. Hubert, L. Schultz, *Modelling of the Enhanced Remanence of Nanocrystalline, Exchange-Coupled Hard Magnetic Grains*, J. Magn. Magn. Mater. 189 (1998) 391 - 396.
321. P. Oleinek, G. David, K.H. Müller, A. Handstein, N. Mattern, L. Schultz, *Amorphization of R(Fe,V)₁₂ (R = Nd,Sm) by Nitrogenation*, Materials Letters 35 (1998) 126 - 129.

322. P. Oleinek, W. Kockelmann, K.H. Müller, M. Loewenhaupt, L. Schultz, *Neutron and X-Ray Powder Diffraction Study on the Compound NdFe_{10.75}V_{1.25}N_y*, J. Alloys and Compounds 281 (1998) 306 - 311.
323. P. Oleinek, D. Eckert, K.H. Müller, L. Schultz, *Intrinsic Magnetic Properties of Nd(Fe,M)₁₂ (M = V, Ti, Mo) with H,C and N Interstitials*, Proc. 10th Int. Symp. on Magnetic Anisotropy and Coercivity in Rare-Earth Transition Metal Alloys, Dresden Applications (L. Schultz and K.H. Mueller (eds.)), September 1998, S. 41.
324. S. Parhofer, C. Kuhrt, J. Wecker, G. Gieres, L. Schultz, *Magnetic Properties and Growth Texture of High-Coercive Nd-Fe-B Thin Films*, J. Appl. Phys. 83 (1998) 2735 - 2741.
325. N. Schlorke, J. Eckert, L. Schultz, *Synthesis and Properties of Bulk Metallic Mg-Y-Cu Lightweight Alloys Produced by Mechanical Alloying and Rapid Quenching*, Magnesium Alloys and their Applications, Werkstoff-Informationsgesellschaft, Frankfurt (1998) S.533.
326. N. Schlorke, J. Eckert, L. Schultz, *Formation and Stability of Bulk Metallic Glass Forming Mg-Y-Cu Alloys Produced by Mechanical Alloying and Rapid Quenching*, Mater. Sci. Forum 269-272 (1998) 761 - 766.
327. C. Stiller, E. Wu, S.J. Campbell, A. Kerr, W.A. Kaczmarek, J.S. Williams, J. Eckert, L. Schultz, *Mechanically Alloyed and Rapidly Quenched Fe-Zr-B-Cu: Mössbauer Investigations*, Mater. Sci. Forum 269-272 (1998) 425 - 430.
328. J.M. de Teresa, K. Dörr, K.H. Müller, L. Schultz, *Strong Influence of the La³⁺ Content on the Binding Energy of the Lattice Polarons in Manganese Perovskites*, Phys. Rev. B 58 (1998) 5928 - 5931.
329. P. Verges, G. Fuchs, S. Gruss, P. Schätzle, G. Krabbes, K.H. Müller, L. Schultz, *Magnetic Levitation Carrier System Based on Nd-Fe-B Magnets and YBCO Superconductors*, Proc. 15th Int. Workshop on Rare-Earth Magnets and their Applications (L. Schultz and K.H. Mueller (eds.)), Dresden, September 1998, S. 767.
330. L.Q. Xing, J. Eckert, W. Löser, L. Schultz, *Effect of Cooling Rate on the Precipitation of Quasicrystals from the Zr-Cu-Al-Ni-Ti Amorphous Alloy*, Appl. Phys. Lett. 73 (1998) 2110 - 2112.
331. E. Zueco, W. Rave, R. Schäfer, A. Hubert, L. Schultz, *Combined Kerr/Magnetic Force Microscopy on NdFeB Crystals of Different Crystallographic Orientation*, J. Magn. Magn. Mater. 190 (1998) 42 - 47.
332. G. Behr, W. Loeser, G. Graw, H. Bitterlich, J. Freudenberger, J. Fink, L. Schultz, *Growth of RENi₂B₂C Single Crystals by RF-Zone Melting*, J. Crystal Growth 198/199 (1999) 642-648.
333. H. Bitterlich, W. Loeser, G. Behr, K. Nenkov, G. Fuchs, A. Guembel, L. Schultz, *Metallurgy, superconductivity and field-dependent ordering in Tb_xEr_{1-x}Ni₂B₂C*, Physica C 321 (1999) 93-102.
334. K. Buchholz, A. Gebert, K. Mummert, J. Eckert, L. Schultz, *Investigations on the electrochemical behavior of Zr-Al-Cu-Ni bulk metallic glass*, MRS Symp. Proc. "Bulk Metallic Glasses", 554 (1999) 161-166.
335. B. de Boer, N. Reger, R. Opitz, J. Eickemeyer, B. Holzapfel, L. Schultz, *Recrystallized cold rolled nickel and nickel alloys with a strong cube texture*, Proc. 12th Int. Conf. on Textures of Materials, McGill University, Montreal/Canada, August 1999, in: Proceedings, 2 (1999) 944-949.
336. K. Dörr, K.H. Müller, K. Ruck, G. Krabbes, L. Schultz, *Magnetoresistance of Polycrystalline Layered Manganites La_{2-2x}Sr_{1+2x}Mn₂O₇*, J. Appl. Phys. 85 (1999) 5420-5422.
337. S.-L. Drechsler, H. Rosner, S.V. Shulga, G. Fuchs, H. von Lips, J. Freudenberger, M.S. Golden, M. Knupfer, K.-H. Mueller, L. Schultz, J. Fink, G. Kaindl, H. Eschrig, K. Koepernik, *Electronic structure and superconductivity of nonmagnetic transition metal borocarbides*, J. Low Temperature Physics 117 (1999) 1617-1621.
338. S.-L. Drechsler, S.V. Shulga, K.-H. Mueller, G. Fuchs, J. Freudenberger, G. Behr, H. Eschrig, L. Schultz, M.S. Golden, H. von Lips, J. Fink, V.N. Narozhnyi, H. Rosner, P. Zahn, A. Gladun, D. Lipp, A. Kreyssig, M. Loewenhaupt, K. Koepernik, K. Winzer, K. Krug, *Superconducting rare earth transition metal borocarbides*, Physica C 318 (1999) 117-126.
339. J. Eckert, N. Schlorke-de Boer, B. Weiss, L. Schultz, *Mechanically alloyed Mg-based metallic glasses and metallic glass composites containing nanocrystalline particles*, Z. Metallkunde 90 (1999) 908-913.
340. J. Eckert, A. Kuebler, L. Schultz, *Mechanically Alloyed Zr₅₅Al₁₀Cu₃₀Ni₅ Metallic Glass Composites Containing Nanocrystalline W Particles*, J. Appl. Phys. 85 (1999) 7112-7119.
341. G.J. Fan, W. Loeser, S. Roth, J. Eckert, L. Schultz, *Magnetic properties of cast Nd_{60-x}Fe₂₀Al₁₀Co₁₀Cu_x alloys*, Appl. Phys. Letters 75 (1999) 2984-2986.
342. G.J. Fan, M.X. Quan, Z.Q. Hu, J. Eckert, L. Schultz, *In-situ explosive formation of NbSi₂-based nanocomposites by mechanical alloying*, Scripta Materialia 41 (1999) 1147-1151.
343. J. Freudenberger, G. Fuchs, K.-H. Mueller, K. Nenkov, S.-L. Drechsler, A. Kreyssig, H. Rosner, K. Koepernik, D. Lipp, L. Schultz, *Diluted and concentrated iso electronic substitutional effects in superconducting R_xY_{1-x}Ni₂B₂C compounds*, J. Low Temperature Physics 117 (1999) 1623-1627.

344. J. Freudenberger, A. Kreyssig, C. Ritter, K. Nenkov, S.-L. Drechsler, G. Fuchs, K.-H. Mueller, M. Loewenhaupt, L. Schultz, *Suppression of superconductivity by nonmagnetic impurities, structural properties and magnetic ordering in Ho_xLa_{1-x}Ni₂B₂C*, Physica C 315 (1999) 91-98.
345. J. Freudenberger, V.N. Narozhnyi, V.N. Kochetkov, K.A. Nenkov, G. Fuchs, A. Handstein, K.-H. Mueller, L. Schultz, *Hall-effect in LuNi₂B₂C and YNi₂B₂C borocarbides in normal and superconducting mixed states*, J. Low Temperature Physics 117 (1999) 1605-1609.
346. A. Gebert, K. Buchholz, A. Leonhard, K. Mummert, J. Eckert, L. Schultz, *Investigations on the Electrochemical Behaviour of Zr-Based Bulk Metallic Glasses*, Mater. Sci. Engg. A 267 (1999) 294-300.
347. U. Grundmann, M. Heilmaier, L. Schultz, *Mikrostruktur und Hochtemperaturfestigkeit von mechanisch legiertem ODS Silber*, Werkstoffwoche '98, in: R.Kopp; K.Herfurth u.a.(ed.) Symp. 8 Metalle/Symp. 14 Simulation, Wiley VCH, VI (1999) 553-558.
348. S. Gruss, G. Fuchs, G. Krabbes, P. Schaetzle, J. Fink, K.-H. Mueller, L. Schultz, *High trapped fields in melt-textured YBa₂Cu₃O_{7-delta}*, IEEE Trans. Appl. Superconductivity 9 (1999) 2070-2073.
349. A. Guembel, L. Ledig, D. Hough, C.-G. Oertel, W. Skrotzki, J. Eckert, L. Schultz, *Mechanically attrited superconducting Y-TM borocarbides (TM= Ni, Pd)*, Materials Science Forum, 312-314 (1999) 61-66.
350. O. Gutfleisch, M. Kubis, A. Handstein, K.-H. Mueller, L. Schultz, *Hydrogenation disproportionation desorption recombination processes applied to NdFeB-, SmFe- and SmCo-type alloys*, in: MRS Symp. Proc. "Advanced hard and soft magnetic materials", 577 (1999) 3-14.
351. O. Gutfleisch, B. Gebel, M. Kubis, K.-H. Mueller, L. Schultz, *Modified HDDR procedures applied to NdFeB alloys*, IEEE Trans. Mag. 35 (1999) 3250-3252.
352. R. Hermann, I. Baecher, W. Loeser, L. Schultz, *Primary Solidification of Nd₂Fe₁₄B by Levitation and Quenching of Undercooled Melts*, J. Magn. Magn. Mater. 196-197 (1999) 737-739.
353. W. Hoffmann, M. Baenitz, K. Lueders, A. Gebert, J. Eckert, L. Schultz, *NMR investigations of the bulk metallic glass Zr₅₅Cu₃₀Al₁₀Ni₅*, in: MRS Symp. Proc. "Bulk Metallic Glasses", 554 (1999) 95-100.
354. B. Holzapfel, V. Betz, D. Schlaefer, H.-D. Bauer, L. Schultz, *Microstructure and texture evolution in oxide films prepared by ion-beam assisted laser deposition*, IEEE Trans. Appl. Superconductivity 9 (1999) 1479-1482.
355. M. Kubis, O. Gutfleisch, B. Gebel, K.-H. Mueller, I.R. Harris, L. Schultz, *Influence of M=Al, Ga and Si on microstructure and HDDR-processing of Sm₂(Fe, M)₁₇ and magnetic properties of their nitrides and carbides*, J. Alloys and Compounds 283 (1999) 296-303.
356. M. Kubis, O. Gutfleisch, K.H. Müller, I.R. Harris, L. Schultz, *Microstructure and HDDR Processing of as-cast Sm_{10.5}Fe_{88.5}Zr_{1.0}*, J. Magn. Magn. Mater. 196-197 (1999) 297-298.
357. M. Kubis, A. Handstein, B. Gebel, O. Gutfleisch, K.H. Müller, L. Schultz, *Highly Coercive SmCo₅ Magnets Prepared by a Modified Hydrogenation Disproportionation Desorption Recombination Process*, J. Appl. Phys. 85 (1999) 5666-5668.
358. A. Kuebler, J. Eckert, L. Schultz, *Nanoparticles in an amorphous Zr₅₅Al₁₀Cu₃₀Ni₅-matrix - the formation of composites by mechanical alloying*, Nanostructured Materials 12 (1999) 443-446.
359. A. Leonhard, M. Heilmaier, J. Eckert, L. Schultz, *Deformation behavior of bulk amorphous Zr-base alloys*, in: MRS Symp. Proc. "Bulk Metallic Glasses" 554 (1999) 137-142.
360. A. Leonhard, M. Heilmaier, J. Eckert, L. Schultz, *Creep Behavior of Bulk Amorphous and Partially Crystalline Zr-base Alloys*, in: Creep Behavior of Advanced Materials for the 21st Century (ed.: R.S. Mishra, A.K. Mukherjee and K.L. Murty), The Minerals, Metals & Materials Society, 1999, p. 41-50.
361. E.H. Mueller, M. Heilmaier, L. Schultz, *LCF and microstructure of the ODS nickel-base superalloy PM 1000 at 1123 K*, in: DFG Research Report "Microstructure and Mechanical Properties of Metallic High-Temperature Materials", Wiley-VCH, Weinheim (1999) 465-478.
362. K.-H. Mueller, M. Kubis, P. Oleinek, G. David, A. Handstein, O. Gutfleisch, L. Schultz, *Synthesis of amorphous and nanostructured materials by gas solid reactions*, Materials Science Forum, 312-314 (1999) 23-32.
363. M. Multigner, A. Hernando, P. Crespo, C. Stiller, J. Eckert, L. Schultz, *Structural and Magnetic Properties of Mechanically Alloyed (Fe_xCu_{1-x})₉₃Zr₇ (x=0.5, 0.7) Solid Solutions*, J. Magn. Magn. Mater. 196-197 (1999) 214-215.
364. V. Neu, L. Schultz, H.-D. Bauer, *Grain size dependence of remanence enhancement and coercivity in nanocrystalline Nd-Fe-B powders*, Nanostructured Materials 12 (1999) 769-774.
365. M. Nganbe, M. Heilmaier, L. Schultz, F.E.H. Mueller, *Einfluss von Temperatur und Dehnrate auf das LCF Verhalten der ODS Nickelbasislegierung PM 1000*, Werkstoffwoche '98, in: R.Kopp; K.Herfurth u.a. (ed.) Symposium 8 Metalle/Symposium 14 Simulation Metalle, Wiley VCH, VI (1999) 533-538.
366. P. Oleinek, D. Eckert, K.-H. Mueller, L. Schultz, *Gas-solid reaction of Nd(Fe, M)₁₂ (M= Ti, V, Mo) with H, C and N and intrinsic magnetic properties of the interstitially modified compounds*, J. Phys. D: Appl.Phys. 32

- (1999) 1578-1582.
367. P. Oleinek, O. Gutfleisch, A. Handstein, K.-H. Mueller, L. Schultz, I.R. Harris, *High-pressure gas-solid interstitial modification with H and N atoms and HDDR processing of Nd(Fe, M)₁₂ (M=Ti, V, Mo)*, IEEE Trans. Magn. 35 (1999) 3247-3249.
368. H. Saage, M. Heilmayer, J. Eckert, L. Schultz, *Microstructural evaluation during mechanical milling and consolidation of ODS Li₂-(Al, Cr)₃Ti*, in: MRS Symp. Proc. 552 (1999) KK8.34.1-KK8.34.7.
369. N. Schlorke, J. Eckert, L. Schultz, *Thermal and Magnetic Properties of Bulk Glass Forming Fe-Al-P-C-B-(Ga) Alloys*, J. Phys. D: Appl. Phys. 32 (1999) 855-861.
370. N. Schlorke, B. Weiss, J. Eckert, L. Schultz, *Properties of Mg-Y-Cu glasses with nanocrystalline particles*, Nanostructured Materials 12 (1999) 127-130.
371. L. Schultz, A.M. El-Aziz, G. Barkleit, K. Mummert, *Corrosion behaviour of Nd-Fe-B permanent magnetic alloys*, Mater. Sci. Engg. A 267 (1999) 307-313.
372. F. Schurack, I. Boerner, J. Eckert, L. Schultz, *Synthesis and properties of mechanically alloyed and ball milled high strength amorphous or quasicrystalline Al alloys*, Materials Science Forum, 312-314 (1999) 49-54.
373. F. Schurack, J. Eckert, L. Schultz, *High-strength Al alloys with nano-quasicrystalline phase as main component*, Nanostructured Materials 12 (1999) 107-110.
374. G. Vaerst, W. Loeser, D. Elefant, R. Kucharkowski, W. Michel, L. Schultz, *Stoichiometry Control and Mechanical Properties of NiAl Single Crystals*, Intermetallics 7 (1999) 237-239.
375. T. Walter, K. Dörr, K.H. Müller, B. Holzapfel, D. Eckert, M. Wolf, D. Schläfer, L. Schultz, *Low Field Magnetoresistance of La_{0.7}Sr_{0.3}MnO₃ Thin Films with Gradually Changed Texture*, Appl. Phys. Letters 74 (1999) 2218-2220.
376. L.Q. Xing, J. Eckert, W. Löser, L. Schultz, D.M. Herlach, *Crystallization Behaviour and Nanocrystalline Microstructure Evolution of a Zr₅₇Cu₂₀Al₁₀Ni₈Ti₅ Bulk Amorphous Alloy*, Philos. Mag. A 79 (1999) 1095-1108.
377. L.Q. Xing, J. Eckert, W. Löser, L. Schultz, *High Strength Materials Produced by Precipitation of Icosahedral Quasicrystals in Bulk Zr-Ti-Cu-Ni-Al Amorphous Alloys*, Appl. Phys. Letters 74 (1999) 664-666.
378. L.Q. Xing, J. Eckert, L. Schultz, *Deformation mechanism of amorphous and partially crystallized alloys*, Nanostructured Materials 12 (1999) 503-506.
379. E. Zueco, W. Rave, R. Schäfer, M. Mertig, L. Schultz, *Observations of Fe Surfaces with Magnetic Force and Kerr Microscopy*, J. Magn. Magn. Mater. 196-197 (1999) 115-117.
380. G. Behr, W. Loeser, G. Graw, H. Bitterlich, J. Fink, L. Schultz, *Crystal growth of high-melting multi-component rare earth-transition metal intermetallic compounds from the melt*, Crystal Research and Technology 35 (2000) 461-472.
381. H. Bitterlich, W. Loeser, G. Behr, G. Graw, W. Yang-Bitterlich, U. Kraemer, L. Schultz, *Single-crystal growth of Tb_{0.4}Y_{0.6}Ni₂B₂C compounds by the floating-zone method*, J. Crystal Growth 213 (2000) 319-327.
382. H. Bitterlich, W. Loeser, K. Nenkov, G. Fuchs, K. Winzer, L. Schultz, *Magnetic ordering in TbNi₂B₂C and Tb_{0.4}Y_{0.6}Ni₂B₂C single crystals*, Physica B 284-288 (2000) 487-488.
383. A. Bollero, O. Gutfleisch, M. Kubis, K.-H. Mueller, L. Schultz, *Hydrogen disproportionation by reactive milling and recombination of Nd₂(Fe_{1-x}Co_x)₁₄B alloys*, Acta Materialia 48 (2000) 4929-4934.
384. K. Buchholz, A. Gebert, K. Mummert, J. Eckert, L. Schultz, *Corrosion behaviour of bulk amorphous and crystalline Zr₅₅Al₁₀Cu₃₀Ni₅ alloys at ambient and elevated temperature*, J. Metastable and Nanocrystalline Materials 8 (2000) 213-218.
385. P. Crespo, M. Multigner, F.J. Castano, R. Casero, A. Hernando, A. García Escorial, L. Schultz, S.N. Kaul, *Field and temperature dependence of magnetization in FeCu-based amorphous alloys*, Phys. Rev. B 61 (2000) 14346-14349.
386. G. David, S. Roth, J. Eckert, L. Schultz, *Effect of annealing in hydrogen on composition, structure and magnetic properties of rapidly quenched Fe-Co-Si-TM-B ribbons*, J. Magn. Magn. Mat. 215-216 (2000) 434-436.
387. G. David, S. Roth, J. Eckert, L. Schultz, *Effect of annealing in hydrogen on composition, structure and magnetic properties of rapidly quenched Fe-Co-Si-TM-B ribbons*, J. Metastable and Nanocrystalline Materials 8 (2000) 835-840.
388. K. Doerr, J.M. De Teresa, K.-H. Mueller, D. Eckert, T. Walter, E. Vlakhov, K. Nenkov, L. Schultz, *Preparation and properties of epitaxial La_{0.7}Ca_{0.3}MnO₃-delta films with reduced carrier density*, J. Phys.: Condensed Matter 12 (2000) 7099-7109.
389. K. Doerr, K.-H. Mueller, L. Schultz, K. Ruck, G. Krabbes, *Large magnetoresistance of the polycrystalline metamagnetic layered manganite La_{1.2}Nd_{0.2}Sr_{1.6}Mn₂Oⁿ*, J. Appl. Phys. 87 (2000) 814-816.
390. K. Doerr, T. Walter, K.-H. Mueller, M. Sahana, K. Nenkov, M. Lehmann, L. Schultz, *Magnetic and electrical properties of coherently grown low-strain La_{0.7}Ca_{0.3}MnO₃ films*, BMBF-Statusseminar "Magnetoelektronik", Dresden, Juni 2000, in: Tagungsband, VDI Technologiezentrum Physikalische Technologien (2000) 75-77.

391. A.M. El-Aziz, A. Kirchner, O. Gutfleisch, A. Gebert, L. Schultz, *Investigations of the corrosion behaviour of nanocrystalline Nd-Fe-B hot pressed magnets*, J. Alloys and Compounds 311 (2000) 299-304.
392. G.J. Fan, J. Eckert, W. Loeser, S. Roth, L. Schultz, *Effect of Co and Cu alloying on Nd-Fe-Al based bulk amorphous alloys*, J. Metastable and Nanocrystalline Materials 8 (2000) 97-102.
393. G.J. Fan, W. Loeser, S. Roth, J. Eckert, L. Schultz, *Glass-forming ability and magnetic properties of Nd_{70-x}Fe₂₀Al₁₀Cox alloys*, J. Materials Research 15 (2000) 1556-1563.
394. J. Freudenberger, G. Fuchs, K. Nenkov, S.-L. Drechsler, K.-H. Mueller, L. Schultz, *Suppression of superconductivity in RxYI_xNi₂B₂C compounds by paramagnetic impurities*, Physica C 339 (2000) 195-200.
395. G. Fuchs, G. Krabbes, P. Schaetzle, S. Gruss, P. Verges, K.-H. Mueller, J. Fink, L. Schultz, *Trapped fields larger than 11 T in bulk YBa₂Cu₃O_{7-x} material*, IEEE Trans. Appl. Superconductivity 10 (2000) 890-893.
396. G. Fuchs, P. Schaetzle, G. Krabbes, S. Gruss, P. Verges, K.-H. Mueller, J. Fink, L. Schultz, *Trapped magnetic fields larger than 14 T in bulk YBa₂Cu₃O_{7-x}*, Appl. Phys. Letters 76 (2000) 2107-2109.
397. G. Fuchs, S. Gruss, G. Krabbes, P. Schaetzle, P. Verges, K.-H. Mueller, J. Fink, L. Schultz, *High trapped fields in bulk YBCO superconductors*, Advances in Solid State Physics, Kramer, B. (ed.), Vieweg, Braunschweig 40 (2000) 85-696.
398. G. Graw, H. Bitterlich, W. Loeser, G. Behr, L. Schultz, J. Fink, *Constitution and crystal growth of RE₂TMSi₃ intermetallic compounds*, J. Alloys and Compounds 308 (2000) 193-199.
399. S. Gruss, G. Fuchs, P. Verges, P. Schaetzle, G. Krabbes, K.-H. Mueller, J. Fink, L. Schultz, *Trapped fields beyond 11 T in bulk YBa₂Cu₃O_{7-delta} material*, Proc. EUCAS'99, Sitges/Spanien, September 1999. IOP Conf. Series 167/1 (2000) 115-118.
400. A. Guembel, J. Eckert, A. Handstein, L. Schultz, *Structural and superconducting properties of mechanically alloyed Y-Pd_{1-x}T_xM_x-B-C (TM=Ni, Pt)*, Physica B 284-288 (2000) 1107-1108.
401. A. Guembel, J. Eckert, A. Handstein, W. Skrotzki, L. Schultz, *Variation of superconductivity in mechanically alloyed pseudo-quaternary Y-Pt/Pd-B-C*, J. Metastable and Nanocrystalline Materials 8 (2000) 924-930.
402. O. Gutfleisch, A. Bollero, D. Eckert, B. Gebel, M. Kubis, K.-H. Mueller, L. Schultz, *Exchange coupled Sm₂Co₁₇ magnets obtained by reactive milling and recombination*, Proc. 16th Int. Workshop on Rare-Earth Magnets and Their Applications, Sendai/Japan, September 2000, (2000) 883-891.
403. O. Gutfleisch, A. Bollero, M. Kubis, K.-H. Mueller, L. Schultz, *Hydrogen disproportionation by reactive milling and recombination of Nd₂Fe₁₄B and Nd₂Co₁₄B alloys*, J. Metastable and Nanocrystalline Materials 8 (2000) 405-410.
404. K. Haese, B. Holzapfel, L. Schultz, *The angle dependence of the upper critical field of HoNi₂B₂C thin films*, Physica C 341-348 (2000) 761-762.
405. K. Haese, D. Hough, B. Holzapfel, L. Schultz, *In situ preparation of RENi₂B₂C (RE - Y, Ho) thin films by pulsed laser deposition*, Physica B 284-288 (2000) 1105-1106.
406. W. Haessler, P. Schaetzle, L. Schultz, T.C. Shields, J.S. Abell, T.W. Button, *Superconducting thick films of YBCO on Ag substrates with Y₂O₃ additions*, Proc. EUCAS'99, Sitges/Spanien, September 1999, IOP Conf. Series 167/1 (2000) 327-330.
407. M. Heilmayer, M. Nganbe, F.E.H. Mueller, L. Schultz, *The effect of strain rate and temperature on the LCF behavior of the ODS nickel-base superalloy PM 1000*, 9th Int. Symp. on Superalloys, Seven Springs/USA, September 2000, in: "Superalloys 2000", ed. Pollock, T.M. et al., The Mineral, Metals and Materials Society, Warrendale, (2000) 593-600.
408. R. Hermann, O. Filip, N. Mattern, L. Schultz, *Solidification behaviour of undercooled Nd-Fe-B-Ti-C melts in dependence on cooling parameters and composition*, Proc. 16th Int. Workshop on Rare-Earth Magnets and Their Applications, Sendai/Japan, September 2000, (2000) 375-384.
409. D. Hinz, P. O'Beirne, A. Kirchner, W. Stass, O. Gutfleisch, V. Panchanathan, K.-H. Mueller, L. Schultz, *Backward extruded ring magnets in rotary electric machines*, Proc. 16th Int. Workshop on Rare-Earth Magnets and Their Applications, Sendai/Japan, September 2000, (2000) 1011-1020.
410. B. Holzapfel, L. Fernandez, M.A. Arranz, N. Reger, B. de Boer, J. Eickemeyer, L. Schultz, *Heteroepitaxial growth of oxide buffer layers by pulsed laser deposition on biaxially oriented Ni and Ni-alloy tapes*, Proc. EUCAS'99, Sitges/Spanien, September 1999, IOP Conf. Series 167/1 (2000) 419-422.
411. R. Huehne, C. Beyer, B. Holzapfel, C.G. Oertel, L. Schultz, W. Skrotzki, *Growth of biaxial textured MgO layers by ion-beam assisted pulsed-laser deposition*, Crystal Research and Technology 35 (2000) 419-425.
412. R. Huehne, B. Holzapfel, C.-G. Oertel, L. Schultz, W. Skrotzki, *Laser deposition of biaxially aligned MgO buffer layers*, Proc. EUCAS'99, Sitges/Spanien, September 1999, IOP Conf. Series 167/1 (2000) 339-342.
413. B.V. Jalinin, E.V. Obrucheva, D.V. Obruchev, M.F. de Campos, A. Teresiak, R. Hermann, F. Schurack, L. Schultz, *Phase condition and structure formed at an annealing of quenched Fe-Nd alloys*, Proc. 11th Int. Symp. on Magnetic Anisotropy and Coercivity in Rare-Earth Transition Metal Alloys, Sendai/Japan, September 2000,

- (2000) 165-172.
414. J.Z. Jiang, J.S. Olsen, L. Gerward, S. Abdali, J. Eckert, N. Schlorke-de Boer, L. Schultz, J. Truckenbrodt, P.X. Shi, *Pressure effect on crystallization of metallic glass Fe₇₂P₁₁C₆Al₅B₄Ga₂ alloy with wide supercooled liquid region*, *J. Appl. Phys.* **87** (2000) 2664-2666.
415. M. Kubis, K.-H. Mueller, A. Kirchner, L. Schultz, I.R. Harris, *Sm₂(Fe, Ga)₁₇Cy magnets*, Proc. 16th Int. Workshop on Rare-Earth Magnets and Their Applications, Sendai/Japan, September 2000, (2000) 827-834.
416. M. Kubis, D. Eckert, B. Gebel, K.-H. Mueller, L. Schultz, *Intrinsic magnetic properties of Sm₂Fe_{17-x}M_xNy/Cy (M= Al, Ga or Si)*, *J. Magn. Magn. Mat.* **217** (2000) 14-18.
417. M. Kubis, A. Handstein, B. Gebel, O. Gutfleisch, K.-H. Mueller, L. Schultz, *Thermodynamics of the (Sm₂Fe_{17-x}Gax+H₂) system*, *J. Alloys and Compounds* **308** (2000) 275-279.
418. M. Kubis, A. Handstein, B. Gebel, O. Gutfleisch, K.-H. Mueller, L. Schultz, *Hydrogen-induced amorphization of SmFe₃*, *J. Metastable and Nanocrystalline Materials* **8** (2000) 557-561.
419. M. Kubis, D.N. Brown, O. Gutfleisch, B. Gebel, K.-H. Mueller, L. Schultz, I.R. Harris, *Effect of small Zr additions on the microstructure of Sm₂Fe₁₇*, *IEEE Trans. Magn.* **36** (2000) 3303-3305.
420. U. Kuehn, J. Eckert, N. Mattern, L. Schultz, *As-cast quasicrystalline phase in a Zr-based multicomponent bulk alloy*, *Appl. Phys. Letters* **77** (2000) 3176-3178.
421. M. Multigner, A. Hernando, P. Crespo, G. Rivero, A. Garcia Escorial, C. Stiller, L. Schultz, J. Eckert, *Thermal decomposition of mechanically alloyed (Fe_xCu_{1-x})₉₃Zr₇ (x=0.5, 0.7) solid solutions*, *J. Metastable and Nanocrystalline Materials* **8** (2000) 800-805.
422. K. Mummert, A.M. El-Aziz, G. Barkleit, W. Rodewald, L. Schultz, *Korrosionsverhalten von Nd-Fe-B-Dauermagneten*, *Materials and Corrosion* **51** (2000) 13-19.
423. P. Oleinek, O. Isnard, P. Convert, K.-H. Mueller, M. Loewenhaupt, L. Schultz, *In situ neutron diffraction study of the reaction of the compounds NdFe_{10.75}V_{1.25} and NdFe₁₁Ti with nitrogen*, *J. Alloys and Compounds* **298** (2000) 220-225.
424. J. Priede, G. Gerbeth, R. Hermann, G. Behr, L. Schultz, *Control of floating-zone crystal-growth in high-frequency magnetic field*, Proc. 4th Int. PAMIR Conf. on Magnetohydrodynamic at Dawn of Third Millennium, Presquile de Giens/Frankreich, September 2000, (2000) 129-134.
425. N. Reger, B. de Boer, J. Eickemeyer, R. Opitz, B. Holzapfel, L. Schultz, *Development of cube textured nickel-alloys as substrate for superconducting tapes*, Proc. EUCAS'99, Sitges/Spanien, September 1999, IOP Conf. Series **167/1** (2000) 331-334.
426. M. Sahana, K. Doerr, M. Doerr, D. Eckert, K.-H. Mueller, K. Nenkov, L. Schultz, M.S. Hegde, *Magnetism of Ti₄₊ diluted manganites La_{1-x}P_bMn_{1-y}Ti_yO₃*, *J. Magn. Magn. Mat.* **213** (2000) 253-261.
427. T.C. Shields, J.S. Abell, T.W. Button, W. Haessler, G. Risse, K. Fischer, L. Schultz, *Melt processing of superconducting YBa₂Cu₃O₇-partial derivative thick films on AgPd substrates via atmosphere control*, *J. Mater. Sci.* **35** (2000) 6105-6110.
428. T.C. Shields, J.S. Abell, T.W. Button, W. Haessler, J. Eickemeyer, L. Schultz, *Processing of YBCO thick films on Ag substrates in low p(O₂) environments*, Proc. EUCAS'99, Sitges/Spanien, September 1999, IOP Conf. Series **167/1** (2000) 371-374.
429. F. Schurack, J. Eckert, L. Schultz, *Quasicrystalline Al-alloys with high strength and good ductility*, *Mater. Sci. Engg. A* **294-296** (2000) 164-167.
430. M. Seidel, J. Eckert, I. Baecher, M. Reibold, L. Schultz, *Progress of solid-state reaction and glass formation in mechanically alloyed Zr₆₅Al_{7.5}Cu_{17.5}Ni₁₀*, *Acta Materialia* **48** (2000) 3657-3670.
431. T. Walter, K. Doerr, K.-H. Mueller, D. Eckert, K. Nenkov, M. Hecker, M. Lehmann, L. Schultz, *Magnetic and electrical properties of coherently grown low-strain La_{0.7}Ca_{0.3}Mn₃O₇ films*, *J. Magn. Magn. Mat.* **222** (2000) 175-181.
432. T. Walter, K.-H. Mueller, K. Doerr, M. Sahana, K. Nenkov, K. Brand, M. Lehmann, L. Schultz, *Magnetism and electrical transport in heteroepitaxial La_{0.7}Sr_{0.3}/SrTiO₃ multilayers*, 3rd European Conf. on Magnetic Sensors & Actuators, EMSA 2000, Dresden, September 2000, in: *Dresdner Beitraege zur Sensorik*, **13** (2000) 95-96.
433. U. Wolff, F. Schneider, K. Mummert, L. Schultz, *Stability and electrochemical properties of passive layers on Fe-Si alloys*, *Corrosion* **56** (2000) 1195-1201.
434. L.Q. Xing, J. Eckert, W. Loeser, S. Roth, L. Schultz, *Atomic ordering and magnetic properties in Nd₅₇Fe₂₀B₈Co₅Al₁₀ solids*, *J. Appl. Phys.* **88** (2000) 3565-3569.
435. L.Q. Xing, T.C. Hufnagel, J. Eckert, W. Loeser, L. Schultz, *Relation between short-range order and crystallization behavior in Zr-based amorphous alloys*, *Appl. Phys. Letters* **77** (2000) 1970-1972.
436. H. Bitterlich, W. Loeser, H.-G. Lindenkreuz, L. Schultz, *Superconducting YNi₂B₂C- and YPd₂B₂C-phase formation from undercooled melts*, *J. Alloys and Compounds* **325** (2001) 285-292.
437. H. Bitterlich, W. Loeser, G. Behr, S.-L. Drechsler, K. Nenkov, G. Fuchs, K.-H. Mueller, L. Schultz, *Anisotropic*

- upper critical field in $TbxY1-xNi2B2C$ single crystals*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, Juni 2000, in: Proc. NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, 14 (2001) 281-286.
438. B. de Boer, N. Reger, L. Fernandez G.-R., J. Eickemeyer, B. Holzapfel, L. Schultz, W. Prusseit, P. Berberich, *Biaxially textured Ni-alloy tapes as substrates for buffer and YBCO film growth*, Physica C 351 (2001) 38-41.
439. B. de Boer, N. Reger, G.R. Laura Fernandez, J. Eickemeyer, P. Berberich, W. Prusseit, B. Holzapfel, L. Schultz, *Biaxially textured Ni-alloy tapes as substrates for buffer and Y-Ba-Cu-O film growth*, IEEE Trans. Appl. Superconductivity 11 (2001) 3477-3480.
440. B. de Boer, J. Eickemeyer, N. Reger, L. G.-R. Fernandez, J. Richter, B. Holzapfel, L. Schultz, W. Prusseit, P. Berberich, *Cube textured nickel alloy tapes as substrates for $YBa2Cu3O7$ -delta-coated conductors*, Acta Materialia 49 (2001) 1421-1428.
441. A. Bollero, A. Kirchner, O. Gutfleisch, K.-H. Mueller, L. Schultz, *Highly coercive milled and melt-spun (Pr, Nd)FeB-type magnets and their hot workability*, IEEE Trans. Magn. 37 (2001) 2483-2485.
442. A. Bollero, B. Gebel, O. Gutfleisch, K.-H. Mueller, L. Schultz, P.J. McGuiness, G. Drazic, S. Kobe, *NdDyFeBZr high coercivity powders prepared by intensive milling and the HDDR process*, J. Alloys and Compounds 315 (2001) 243-250.
443. B.S.S. Daniel, M. Heilmaier, A. Reger-Leonhard, J. Eckert, L. Schultz, *On the high temperature creep and relaxation behaviour of Zr-based bulk metallic glasses*, Symp. Materials Research Society, Boston/USA, November 2000, in: "Supercooled liquid, bulk glassy and nanocrystalline states of alloys", ed. A. Inoue, A.R. Yavari, W.L. Johnson, R.H. Dauskardt: MRS Symp. Proc. 644, L10.7.1-6 (2001).
444. G. David, S. Roth, J. Eckert, L. Schultz, *Extraction of boron Fe80B20 ribbons by annealing under hydrogen flow*, THERMEC 2000, Las Vegas/USA, December 2000, in: Proc. Int. Conf. on Processing and Manufacturing of Advanced Materials: CDROM, Section D3 (6 p.); Special Issue: Journal of Materials Processing Technology, Eds. T.Chandra, K.Higashi, C.Suryanarayana, C.Tome, Elsevier Science, 117/3 (2001).
445. S. Deledda, J. Eckert, L. Schultz, *Nanocrystalline CaO and ZrC as a second phase in amorphous Zr-Cu-Al-Ni matrix composites*, J. Metastable and Nanocrystalline Materials 10 (2001) 85-90.
446. K. Doerr, T. Walter, M. Sahana, K.-H. Mueller, K. Nenkov, K. Brand, L. Schultz, *Magnetotransport of $La0.7Sr0.3MnO3/SrTiO3$ multilayers with ultrathin manganite layers*, J. Appl. Phys. 89 (2001) 6973-6975.
447. J. Eckert, A. Reger-Leonhard, B. Weiss, M. Heilmaier, L. Schultz, *Bulk nanostructured multicomponent alloys*, Advanced Engineering Materials 3 (2001) 41-47.
448. J. Eickemeyer, D. Selbmann, R. Opitz, B. de Boer, B. Holzapfel, L. Schultz, U. Miller, *Nickel-refractory metal substrate tapes with high cube texture stability*, Superconductor Sci. Techn. 14 (2001) 152-159.
449. O. Filip, R. Hermann, L. Schultz, *Growth kinetics and precipitation phenomena in undercooled Nd-Fe-B melts with Ti and C additions*, J. Magn. Magn. Materials 234 (2001) 247-254.
450. O. Filip, A.M. El-Aziz, R. Hermann, K. Mummert, L. Schultz, *Effect of Al additives and annealing time on microstructure and corrosion resistance of Nd-Fe-B alloys*, Materials Letters 51 (2001) 213-218.
451. J. Freudenberger, G. Fuchs, K. Nenkov, S.-L. Drechsler, K.-H. Mueller, L. Schultz, A. Kreyssig, M. Loewenhaupt, *Impurity scattering in rare-earth nickel borocarbides*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 13.-18.6.00, in: Proc. NATO Science Series, subseries II; K.-H.Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers 14 (2001) 275-280.
452. J. Freudenberger, G. Fuchs, K.-H. Mueller, L. Schultz, *Miscibility gaps in $RxR' 1-xNi2B2C$ compounds*, Materials Research Bulletin 36 (2001) 117-121.
453. R. Hermann, I. Baecher, D.M. Matson, W. Loeser, L. Schultz, *Growth kinetics in levitated and quenched Nd-Fe-B alloys*, IEEE Trans. Magn. 37 (2001) 1100-1105.
454. G. Fuchs, K.-H. Mueller, A. Handstein, K. Nenkov, V.N. Narozhnyi, D. Eckert, M. Wolf, L. Schultz, *Upper critical field and irreversibility line in superconducting MgB_2* , Solid State Communications 118 (2001) 497-501.
455. G. Fuchs, G. Krabbes, P. Schaetzle, S. Gruss, P. Verges, K.-H. Mueller, J. Fink, L. Schultz, H. Eschrig, *Bulk superconducting magnets with fields beyond 14 T*, Physica B 294-295 (2001) 398-401.
456. A. Gebert, U. Wolff, A. John, J. Eckert, L. Schultz, *Stability of the bulk glass-forming Mg₆₅Y₁₀Cu₂₅ alloy in aqueous electrolytes*, Mater. Sci. Engg. A 299 (2001) 125-135.
457. A. Gebert, U. Wolff, M. Savyak, J. Eckert, L. Schultz, *Stability and electrochemical properties of Mg₆₅Y₁₀Cu₂₅ metallic glass*, 6th Int. Symp. Chemical and Electrochemical Reactivity of Amorphous and Nanocrystalline Materials, Quebec/Kanada, 7.-9.2.01, in: Proc. Materials Science Forum, ed. R. Schulz (special

- issue: J. Metastable and Nanocrystalline Materials 11 (2001), 377 (2001) 9-14.
458. W. Gruenberger, M. Heilmaier, L. Schultz, *High-strength pearlitic steel-copper composite wires for conductors in pulsed high-field magnets*, Mater. Sci. Engg. A 303 (2001) 127-133.
459. W. Gruenberger, M. Heilmaier, L. Schultz, *Development of high-strength and high-conductivity conductor materials for pulsed high-field magnets at Dresden*, Physica B 294-295 (2001) 643-647.
460. S. Gruss, G. Fuchs, G. Krabbes, P. Verges, P. Schaetzle, K.-H. Mueller, J. Fink, L. Schultz, *Trapped fields beyond 14 Tesla in bulk YBa₂Cu₃O_{7-delta}*, IEEE Trans. Appl. Superconductivity 11 (2001) 3720-3723.
461. S. Gruss, G. Fuchs, G. Krabbes, P. Verges, G. Stoever, K.-H. Mueller, J. Fink, L. Schultz, *Superconducting bulk magnets: Very high trapped fields and cracking*, Appl. Phys. Lett. 79 (2001) 3131-3133.
462. A. Handstein, D. Hinz, G. Fuchs, K.-H. Mueller, K. Nenkov, O. Gutfleisch, V.N. Narozhnyi, L. Schultz, *Fully dense MgB₂ superconductor textured by hot deformation*, J. Alloys and Compounds 329 (2001) 285-289.
463. K. Haese, S.C. Wimbush, D. Eckert, S. Paschen, B. Holzapfel, L. Schultz, *Structural and superconducting properties of RNi₂B₂C thin films (R-Y, Ho)*, NATO Advanced Research Workshop on Rare Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, Juni 2000, in: Proc. NATO Science Series, subseries II; K.-H. Mueller, V. Narozhnyi (eds), Kluwer Academic Publishers, 14 (2001) 363-368.
464. R. Hermann, J. Priede, G. Behr, G. Gerbeth und L. Schultz, *Influence of growth parameters and convection modes on the solid-liquid interface during RF-floating zone crystal growth of intermetallic compounds*, J. Crystal Growth 224 (2001) 577-587.
465. R. Huehne, C. Beyer, B. Holzapfel, C.-G. Oertel, L. Schultz, W. Skrotzki, *Formation and destruction of cube texture in MgO films using ion beam assisted pulsed laser deposition*, J. Appl. Phys. 90 (2001) 1035-1039.
466. N. Ismail, A. Gebert, M. Uhlemann, J. Eckert, L. Schultz, *Effect of hydrogen on Zr₆₅Cu_{17.5}Al_{7.5}Ni₁₀ metallic glass*, J. Alloys and Compounds 314 (2001) 170-176.
467. B. Kramer, L. Schultz, *65. Physikertagung in Hamburg*, Physikalische Blaetter 57 (2001) 35-36.
468. H. Krug, M. Doerr, D. Eckert, H. Eschrig, F. Fischer, P. Fulde, R. Groessinger, A. Handstein, F. Herlach, D. Hinz, R. Kratz, M. Loewenhaupt, K.-H. Mueller, F. Pobell, L. Schultz, H. Siegel, F. Steglich, P. Verges, *The Dresden high-magnetic field laboratory - overview and first results*, Physica B 294-295 (2001) 605-611.
469. U. Kuehn, J. Eckert, N. Mattern, L. Schultz, *Glass and quasicrystal formation in a Zr-based multicomponent alloy*, Symp. Materials Research Society, Boston/USA, November 2000, in: "Supercooled liquid, bulk glassy and nanocrystalline states of alloys", ed. A. Inoue, A.R. Yavari, W.L. Johnson, R.H. Dauskardt: MRS Symp. Proc. 4 (2001) L12.8.1-6.
470. G. Kumar, J. Eckert, S. Roth, W. Loeser, L. Schultz, S. Ram, *Formation of cluster structure and phase separation in cast Nd-Fe-Co-Al alloys*, 22nd Risoe Int. Symp. Materials Science, Roskilde/Daenemark, September 2001, in: "Science of Metastable and Nanocrystalline Alloys", ed. A.R.Dinesen u.a. (2001) 307-312.
471. C. Mitra, P. Raychaudhuri, G. Koebernik, K. Doerr, K.-H. Mueller, L. Schultz, R. Pinto, *p-n diode with hole- and electron-doped lanthanum manganites*, Appl. Phys. Lett. 79 (2001) 2408-2410.
472. K.-H. Mueller, G. Krabbes, J. Fink, S. Gruss, A. Kirchner, G. Fuchs, L. Schultz, *New permanent magnets*, J. Magn. Magn. Materials 226 (2001) 1370-1376.
473. V. Neu, L. Schultz, *Two-phase high-performance Nd-Fe-B powders prepared by mechanical milling*, J. Appl. Phys. 90 (2001) 1540-1544.
474. V. Neu, L. Schultz, *Mechanically alloyed rare earth magnets*, in: Encyclopedia of Materials: Science and Technology, ed. K.-H.J. Buschow, R.W. Cahn, M.C. Flemings, B. Ilschner, E.J. Kramer, S. Mahajan, Elsevier Science (2001) 5119-5122.
475. F. Schurack, J. Eckert, L. Schultz, *Synthesis and mechanical properties of cast quasicrystal-reinforced Al alloys*, Acta Materialia 49 (2001) 1351-1361.
476. F. Schurack, J. Eckert, L. Schultz, *Processing and mechanical properties of quasicrystal-reinforced Al alloys*, Symposium "Quasicrystals - Preparation, Properties and Applications", Boston/USA, November 2000, in: MRS Symp. Proc., Belin-Ferré, E.; Thiel, P.A.Tsai, A.-P., Urban, K.(ed), 643 (2001) K9.11.1-6.
477. T. Walter, K.-H. Mueller, K. Doerr, M. Sahana, K. Nenkov, K. Brand, L. Schultz, *Magnetoresistance of heteroepitaxial La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ multilayers*, Sensors and Actuators A 91 (2001) 184-187.
478. S.C. Wimbush, K. Haese, L. Schultz, B. Holzapfel, *Epitaxial alpha-axis and c-axis oriented growth of YNi₂B₂C thin films*, J. Phys.: Condensed Matter 13 (2001) L355-L360.
479. U. Wolff, A. Gebert, M. Savyak, J. Eckert, L. Schultz, *Stability and electrochemical properties of Mg₆₅Y₁₀Cu₂₅ metallic glass*, 22nd Risoe Int. Symp. Materials Science, Roskilde/Daenemark, September 2001, in: "Science of Metastable and Nanocrystalline Alloys", ed. A.R.Dinesen u.a. (2001) 441-447.

480. M.A. Arranz, B. Holzapfel, N. Reger, J. Eickemeyer, L. Schultz, *An experimental study of the main involved parameters in the epitaxial growth of CeO₂ buffer layers on nickel tapes*, Physica C 366 (2002) 109-116.
481. A. Attenberger , J. Haenisch, B. Holzapfel, L. Schultz, *Electrical transport properties of Bi2223/001/ tilt grain boundary junctions*, Physica C 372-376 (2002) 649-651.
482. H. Bitterlich, W. Loeser, G. Behr, S.-L. Drechsler, K. Nenkov, G. Fuchs, K.-H. Mueller, L. Schultz, *Tuning of upper critical field anisotropy in TbxY1-xNi2B2C*, Phys. Rev. B 65 (2002) 224416/1-5.
483. H. Bitterlich, W. Loeser, L. Schultz, *Reassessment of Ni-Al and Ni-Fe-Al solidus temperatures*, J. Phase Equilibria 23 (2002) 301-304.
484. A. Bollero, O. Gutfleisch, K.-H. Mueller, L. Schultz, G. Drazic, *High-performance nanocrystalline PrFeB-based magnets produced by intensive milling*, J. Appl. Phys. 91 (2002) 8159-8161.
485. D. Chumakov, R. Schaefer, D. Elefant, D. Eckert, L. Schultz, S.S. Yan, J.A. Barnard, *Magnetization Process in Sm40Fe60(88 nm)/Ni80Fe20(62 nm) Exchange Spring Films*, Phys. Rev. B 66 (2002) 134409
486. P. Crespo, P. Marin, P. Agudo, M.C. Alcen, A. Hernando, A. Garcia-Escorial, J. Eckert, S. Roth, L. Schultz, *Mechanically Alloyed (Fe_{0.5}Cu_{0.5})_{100-x}Zr_x Alloys*, Materials Science Forum 386 (2002) 175 – 180.
487. B.S.S. Daniel, A. Reger-Leonhard, M. Heilmayer, J. Eckert, L. Schultz, *Thermal relaxation and high temperature creep of Zr55Cu30Al10Ni5 bulk metallic glass*, Mechanics of Time-Dependent Materials 6 (2002) 193-206.
488. J. Degmova, S. Roth, J. Eckert, L. Schultz, *Preparation and magnetic properties of ball-milled and subsequently hot pressed Fe77Al2.14Ga0.86P8.4C5B4Si2.6 bulk metallic glass*, Journal of Metastable and Nanocrystalline Materials (online only: www.scientific.net/jmmn) 12 (2002), 85-92.
489. S. Deledda, J. Eckert, L. Schultz, *Thermal stability of mechanically alloyed Zr-Cu-Al-Ni glass composites containing ZrC particles as a second phase*, Scripta Materialia 46 (2002) 31-35.
490. S. Deledda, J. Eckert, L. Schultz, *Viscosity of mechanically alloyed amorphous Zr-Cu-Al-Ni matrix composites in the supercooled liquid region*, Materials Science Forum 386 (2002) 71 – 76.
491. M. Doerr, D. Eckert, H. Eschrig, F. Fischer, P. Fulde, R. Groessinger, W. Gruenberger, A. Handstein, D. Hinz, R. Kratz, H. Krug, M. Loewenhaupt, K.-H. Mueller, F. Pobell, L. Schultz, H. Siegel, F. Steglich, P. Verges, *The Dresden 100 T/10 ms project: A high magnetic field facility at an IR-FEL*, Int. J. Modern Phys. B 16 (2002) 3397.
492. A.A. El-Moneim, A. Gebert, F. Schneider, O. Gutfleisch, L. Schultz, *Grain growth effect on the corrosion behavior of nanocrystalline NdFeB magnets*, Corrosion Science 44 (2002) 1097-1112.
493. A.A. El-Moneim, A. Gebert, M. Uhlemann, O. Gutfleisch, L. Schultz, *The influence of Co and Ga additions on the corrosion behavior of nanocrystalline NdFeB magnets*, Corrosion Science 44 (2002) 1857-1874.
494. H. Eschrig, J. Fink, L. Schultz, *15 Jahre Hochtemperatur-Supraleitung*, Physik Journal 1 (2002) 45-51.
495. L. Fernandez, B. Holzapfel, F. Schindler, B. de Boer, L. Schultz, *Grain boundary network transport properties of YBa₂Cu₃O₇ film on biaxially textured metal substrates*, Physica C 372-376 (2002) 656-658.
496. J. Freudenberger, W. Gruenberger, E. Botcharova, A. Gaganov, L. Schultz, *Mechanical properties of Cu-based Micro-and Macrocomposites*, Advanced Engineering Materials 4 (2002) 677-681.
497. G. Fuchs, S. Gruss, P. Verges, G. Krabbes, K.-H. Mueller, J. Fink, L. Schultz, *High trapped fields in bulk YBCO encapsulated in steel tubes*, Physica C 372-376 (2002) 1131-1133.
498. A. Gebert, A.A. El-Moneim, O. Gutfleisch, L. Schultz, *Corrosion Behavior of Textured and Isotropic Nanocrystalline NdFeB-Based Magnets*, IEEE Trans. Magn. 38 (2002) 2979-2981.
499. A. Gebert, N. Ismail, U. Wolff, M. Uhlemann, J. Eckert, L. Schultz, *Effects of electrochemical hydrogenation of Zr-based alloys with high glass-forming ability*, Intermetallics 10 (2002) 1207 - 1213.
500. W. Gruenberger, M. Heilmayer, L. Schultz, *Microstructure and mechanical properties of Cu-Ag microcomposites for conductor wires in pulsed high-field magnets*, Z. Metallkunde 93 (2002) 58-65.
501. W. Gruenberger, M. Heilmayer, L. Schultz, *High-strength, high-nitrogen stainless steel-copper composite wires for conductors in pulsed high-field magnets*, Materials Letters 52 (2002) 154-158.
502. A. Guembel, J. Eckert, G. Fuchs, K. Nenkov, K.-H. Mueller, L. Schultz, *Improved superconducting properties in nanocrystalline bulk MgB₂*, Appl. Phys. Lett. 80 (2002) 2725-2727.
503. O. Gutfleisch, A. Bollero, A. Handstein, D. Hinz, A. Kirchner, A. Yan, K.-H. Mueller, L. Schultz, *Nanocrystalline high performance permanent magnets*, J. Magn. Magn. Mater. 242-245 (2002) 1277-1283.
504. J. Haenisch, A. Attenberger, B. Holzapfel, L. Schultz, *Electrical transport properties of Bi₂Sr₂Ca₂Cu₃O_{10+delta} thin film /001/ tilt grain boundaries*, Phys. Rev. B 65 (2002) 52507/1-4.
505. U. Hannemann, S. Faehler, S. Oswald, B. Holzapfel, L. Schultz, *Effect of Cr and Ta buffers on hard magnetic Nd₂Fe₁₄B films*, J. Magn. Magn. Materials 242-245 (2002) 1294-1296.

506. U. Hannemann, S. Faehler, V. Neu, B. Holzapfel, L. Schultz, *Magnetic and microstructural properties of hard magnetic NdFeB films prepared on a Ta buffer by pulsed laser deposition*, IEEE Trans. Magn. 38 (2002) 2805-2807.
507. U. Hannemann, V. Neu, S. Faehler, B. Holzapfel, L. Schultz, *Hard magnetic Nd-Fe-B and Sm-Co films: Influence of the Cr buffer microstructure on the magnetic properties*, IEEE Trans. Magn. 38 (2002) 2949-2951.
508. G. He, W. Loeser, J. Eckert, L. Schultz, *Enhanced Plasticity in a Ti-Based Bulk Metallic Glass-Forming Alloy by in-situ Formation of a Composite Microstructure*, J. Materials Research 17 (2002) 3015 - 3018.
509. M. Heilmaier, H. Saage, K.J. Mirpuri, J. Eckert, L. Schultz, P. Singh, *Superposition of grain size and dispersion strengthening in ODS Li₂-(Al, Cr)Ti*, Mater. Sci. Engg. A 329-331 (2002) 106-111.
510. D. Hinz, A. Handstein, G. Fuchs, K.-H. Mueller, K. Nenkov, O. Gutfleisch, V.N. Narozhnyi, L. Schultz, *Observation of texture for fully dense MgB₂ superconductor processed by hot deformation*, Physica C 372-376 (2002) 1248-1250.
511. R. Huehne, S. Faehler, B. Holzapfel, C.-G. Oertel, L. Schultz, W. Skrotzki, *Real Time in-situ texture investigations of Thin Film Growth Using RHEED*, Texture of Materials, Vol. 408 - 4 (2002) 1549 - 1554.
512. R. Huehne, S. Faehler, B. Holzapfel, C.-G. Oertel, L. Schultz, W. Skrotzki, *Mechanism of texture formation in MgO buffer layers using ion-beam assisted laser deposition*, Physica C 372-376 (2002) 825-827.
513. N. Ismail, M. Uhlemann, A. Gebert, J. Eckert, L. Schultz, *The electrochemical hydrogen sorption behaviour of Zr-Cu-Al-Ni metallic glasses*, Materials Transactions 43 (2002) 1133-1137.
514. P. Kerschl, R. Groessinger, C. Kussbach, R. Sato-Turtelli, K.-H. Mueller, L. Schultz, *Magnetic properties of nanocrystalline barium ferrite at high temperatures*, J. Magn. Magn. Mater. 242-245 (2002) 1468-1470.
515. U. Kuehn, J. Eckert, N. Mattern, L. Schultz, *ZrNbCuNiAl bulk metallic glass matrix composites containing dendritic bcc phase precipitates*, Appl. Phys. Lett. 80 (2002) 2478-2480.
516. G. Kumar, J. Eckert, L. Schultz, S. Ram, *Formation and thermal stability of cluster structure in Nd₅₅Cu₁₅Ni₁₀Co₅Al₁₅ bulk amorphous alloy*, Materials Letters 53 (2002) 305-315.
517. G. Kumar, J. Eckert, S. Roth, W. Loeser, S. Ram, L. Schultz, *Magnetic properties of Nd-Fe-Co(Cu)-Al-B amorphous alloys prepared by nonequilibrium techniques*, J. Appl. Phys. 91 (2002) 3764-3768.
518. G. Kumar, J. Eckert, S. Roth, W. Loeser, L. Schultz, *Structural and magnetic properties of as-cast Nd-(Fe,Co)-Al alloys*, Annales de Chimie Science des Materiaux 27 (2002) 41-47.
519. C. Mitra, G. Koebernik, K. Doerr, K.-H. Mueller, L. Schultz, P. Raychaudhuri, R. Pinto, E. Wieser, *Magnetotransport properties of a room temperature rectifying tunnel junction made of electron and hole doped manganites*, J. Appl. Phys. 91 (2002) 7715-7717.
520. K.-H. Mueller, K. Doerr, T. Walter, M. Sahana, K. Brand, L. Schultz, *The insulator state of ultrathin films of ferromagnetic manganites*, J. Magn. Magn. Materials 242-245 (2002) 447-449.
521. V.N. Narozhnyi, G. Fuchs, A. Handstein, A. Guembel, J. Eckert, K. Nenkov, D. Hinz, O. Gutfleisch, A. Waelte, L.N. Bogacheva, I.E. Kostyleva, K.-H. Mueller, L. Schultz, *Comparative study of dense bulk MgB₂ materials prepared by different methods*, J. Superconductivity 15 (2002) 599-601.
522. V. Neu, J. Thomas, S. Faehler, B. Holzapfel, L. Schultz, *Hard magnetic SmCo thin films prepared by pulsed laser deposition*, J. Magn. Magn. Materials 242-245 (2002) 1290-1293.
523. V. Neu, U. Hannemann, S. Faehler, B. Holzapfel, L. Schultz, *Effect of rare earth content on microstructure and magnetic properties of SmCo and NdFeB thin films*, J. Appl. Phys. 91 (2002) 8180-8182.
524. M. Qi, X.D. Wang, S. Deledda, J. Eckert, L. Schultz, *Influence of Si addition and relaxation on the crystallization of Zr-Al-Ni-Cu based amorphous alloys*, J. Mater. Sci. Lett. 21 (2002) 893-896.
525. R. Schaefer, R. Urban, D. Ullmann, H.L. Meyerheim, B. Heinrich, L. Schultz, J. Kirschner, *Domain wall induced switching of whisker-based tunnel junctions*, Phys. Rev. B 65 (2002) 144405/1-7.
526. N. Schlorke-de Boer, R. Schaefer, J. Eckert, L. Schultz, *Drastic coercivity relaxation in amorphous Fe₇₄Al₅P₁₁C₆B₄ and its dependence on the preparation method*, J. Appl. Phys. 91 (2002) 6601-6610.
527. D. Schobinger, O. Gutfleisch, D. Hinz, K.-H. Mueller, L. Schultz, G. Martinek, *High temperature magnetic properties of 2:17 Sm-Co magnets*, J. Magn. Magn. Mater. 242-245 (2002) 1347-1349.
528. L. Schultz, G. Krabbes, G. Fuchs, W. Pfeiffer, K.-H. Mueller, *Superconducting permanent magnets and their application in magnetic levitation*, Z. Metallkunde 93 (2002) 1057-1064.
529. L. Schultz, A. Bollero, A. Handstein, D. Hinz, A. Kirchner, A. Yan, K.H. Mueller, G. Kumar, J. Eckert, O. Gutfleisch, *Nanocomposite Magnetic Materials*, J. Korean Powder Metallurgical Institute 9 (2002) 381-393.
530. R. Seidel, O. de Haas, R. Schaefer, L. Schultz, M. Ruehrig, J. Wecker, *Temperature-dependent domain investigations on exchange-biased IrMn-NiFe and IrMn-CoFe systems*, IEEE Trans. Magn. 38 (2002) 2776-2778.

531. R.M. Srivastava, J. Eckert, W. Loeser, B.K. Dhindaw, L. Schultz, *Cooling rate evaluation for bulk amorphous alloys from eutectic microstructures in casting processes*, Materials Transactions **43** (2002) 1670-1675.
532. M. Stoica, J. Eckert, S. Roth, L. Schultz, A.R. Yavari, A. Kvick, *Casting and phase transformations of Fe65.5Cr4Mo4Ga4P12C5B5.5*, Journal of Metastable and Nanocrystalline Materials (online only: www.scientific.net/jmm) **12** (2002) 77-84.
533. M.H. Stoica, J. Degmova, S. Roth, J. Eckert, H. Grahl, L. Schultz, A.R. Yavari, A. Kvick, G. Heunen, *Magnetic properties and phase transformations of bulk amorphous Fe-based alloys obtained by different techniques*, Materials Transactions **43** (2002) 1966-1973.
534. Z.G. Sun, W. Loeser, J. Eckert, K.-H. Mueller, L. Schultz, *Phase separation in Nd_{60-x}Y_xFe₃₀Al₁₀ melt-spun ribbons*, Appl. Phys. Lett. **80** (2002) 772-774.
535. Z.G. Sun, W. Loeser, J. Eckert, K.-H. Mueller, L. Schultz, *Magnetic properties of Nd_{60-x}Y_xFe₃₀Al₁₀ (x=0, 10, 30) melt-spun ribbons containing two amorphous magnetic phases*, J. Appl. Phys. **91** (2002) 9267-9271.
536. U. Wolff, A. Gebert, J. Eckert, L. Schultz, *Effect of surface pretreatment on the electrochemical activity of a glass-forming Zr-Ti-Al-Cu-Ni alloy*, J. Alloys and Compounds **346** (2002) 222-229.
537. A. Boller, A. Yan, O. Gutfleisch, K.H. Mueller, L. Schultz, *Intergrain interactions in nanocrystalline isotropic PrFeB-based magnets*, IEEE Trans. Magn. **39** (2003) 2944-2946.
538. E. Botcharova, M. Heilmayer, J. Freudenberger, G. Drew, D. Kudashow, U. Martin, L. Schultz, *Supersaturated solid solution of niobium in copper by mechanical alloying*, J. Alloys and Compounds **351** (2003) 119-125.
539. M. Calin, J. Eckert, L. Schultz, *Improved mechanical behavior of Cu-Ti-based bulk metallic glass by in situ formation of nanoscale precipitates*, Scripta Materialia **48** (2003) 653-658.
540. M. Calin, J. Eckert, L. Schultz, *High-strength Cu-Ti-rich bulk metallic glasses and nano-composites*, Z. Metallkunde **94** (2003) 615-620.
541. J. Das, W. Loeser, U. Kuehn, J. Eckert, S.K. Roy, L. Schultz, *High-strength Zr-Nb-(Cu,Ni,Al) composites with enhanced plasticity*, Appl. Phys. Lett. **82** (2003) 4690-4692.
542. J. Das, A. Gueth, H.J. Klauss, C. Mickel, W. Loeser, J. Eckert, S.K. Roy, L. Schultz, *Effect of casting conditions on microstructure and mechanical properties of high-strength Zr_{73.5}Nb₉Cu₇Ni₁Al_{9.5} in situ composites*, Scripta Materialia **49** (2003) 1189-1195.
543. O. de Haas, R. Schaefer, L. Schultz, C.M. Schneider, Y.M. Chang, M.T. Lin, *Critical angle for irreversible switching of the exchange-bias direction in NiO-Cu-Ni₈₁Fe₁₉ films*, Phys. Rev. B **67** (2003) art. no. 054405.
544. O. de Haas, R. Schaefer, L. Schultz, K.U. Barholz, R. Mattheis, *Rotational magnetization processes in exchange biased Ni₈₁Fe₁₉/Fe₅₀Mn₅₀ bilayers*, J. Magn. Magn. Mater. **260** (2003) 380-385.
545. S. Faehler, U. Hannemann, S. Oswald, V. Neu, B. Holzapfel, L. Schultz, *Corrosion of highly coercive, highly textured Nd-Fe-B films*, IEEE Trans. Magn. **39** (2003) 2950-2952.
546. M. Falter, K. Demmler, W. Haessler, B. Schlobach, B. Holzapfel, L. Schultz, *Chemical solution deposition (CSD) of YBa(2)Cu₃O_(7-x) films and oxide buffer layers by dip coating*, IEEE Trans. Appl. Superconductivity **13** (2003) 2751-2754.
547. L. Fernandez, B. Holzapfel, F. Schindler, B. de Boer, A. Attenberger, J. Haenisch, L. Schultz, *Influence of the grain boundary network on the critical current of YBa₂Cu₃O₇ films grown on biaxially textured metallic substrates*, Phys. Rev. B **67** (2003) art. no. 052503.
548. C. Fischer, C. Rodig, W. Haessler, O. Perner, J. Eckert, K. Nenkov, G. Fuchs, H. Wendrock, B. Holzapfel, L. Schultz, *Preparation of MgB₂ tapes using a nanocrystalline partially reacted precursor*, Appl. Phys. Lett. **83** (2003) 1803-1805.
549. G. Fuchs, G. Krabbes, K.H. Mueller, P. Verges, L. Schultz, R. Gonzalez-Arrabal, M. Eisterer, H.W. Weber, *High magnetic fields in superconducting permanent magnets*, J. Low Temp. Phys. **133** (2003) 159-179.
550. G. Fuchs, S.L. Drechsler, K.H. Mueller, A. Handstein, S.V. Shulga, G. Behr, A. Guembel, J. Eckert, K. Nenkov, V.N. Narozhnyi, L. Schultz, H. Eschrig, S. Otani, H. Rosner, W.E. Pickett, *A comparative study of MgB₂ and other diborides*, J. Low Temp. Phys. **131** (2003) 1159-1163.
551. H. Grahl, S. Roth, J. Eckert, L. Schultz, *Stability and magnetic properties of Fe-based amorphous alloys with supercooled liquid region*, J. Magn. Magn. Mater. **254** (2003) 23 - 25.
552. U. Grundmann, M. Heilmayer, U. Martin, H. Oettel, L. Schultz, *Oxide dispersion-strengthened silver: manufacturing and properties*, Z. Metallkunde **94** (2003) 587-592.
553. A. Guembel, O. Perner, J. Eckert, G. Fuchs, K. Nenkov, K.H. Mueller, L. Schultz, *High density nanocrystalline MgB₂ bulk superconductors with improved pinning*, IEEE Trans. Appl. Superconductivity **13** (2003) 3064-3067.
554. A. Handstein, A. Yan, G. Martinek, O. Gutfleisch, K.H. Mueller, L. Schultz, *Stability of magnetic properties of Sm₂Co₁₇-type magnets at operating temperatures higher than 400 degrees C*, IEEE Trans. Magn. **39** (2003) 2923-2925.
555. U. Hannemann, S. Faehler, V. Neu, B. Holzapfel, L. Schultz, *Intrinsic and extrinsic properties of epitaxial*

- Nd₂Fe₁₄B films*, Appl. Phys. Lett. 82 (2003) 3710-3712.
556. U. Hannemann, S. Melcher, V. Neu, S. Faehler, B. Holzapfel, L. Schultz, *Microstructure and coercivity mechanism of highly textured Nd-Fe-B films*, IEEE Trans. Magn. 39 (2003) 2726-2728.
557. G. He, J. Eckert; W. Loeser, L. Schultz, *Novel Ti-Based Nanostructure-Dendrite Composite with Enhanced Plasticity*, Nature Materials 2 (2003) 33 - 37.
558. G. He, W. Loeser, J. Eckert, L. Schultz, *Phase transformation and mechanical properties of Zr-base bulk glass-forming alloys*, Mater. Sci. Engg. A 352 (2003) 179-185.
559. G. He, Z.F. Zhang, W. Loeser, J. Eckert, L. Schultz, *Effect of Ta on glass formation, thermal stability and mechanical properties of a Zr_{52.25}Cu_{28.5}Ni_{4.75}Al_{9.5}Ta₅ bulk metallic glass*, Acta Materialia 51 (2003) 2383-2395.
560. T. Herrmannsdoerfer, H. Krug, F. Pobell, S. Zherlitsyn, H. Eschrig, J. Freudenberger, K.H. Mueller, L. Schultz, *The high field project at Dresden/Rossendorf: A pulsed 100 T/10 ms laboratory at an infrared free-electron-laser facility*, J. LOW TEMP. PHYS. 133 (2003) 41-59.
561. N. Kozlova, K. Doerr, D. Eckert, A. Handstein, Y. Skourski, T. Walter, K.H. Mueller, L. Schultz, *Slow relaxation of grain boundary resistance in a ferromagnetic manganite*, J. Appl. Phys. 93 (2003) 8325-8327.
562. G. Kumar, J. Eckert, S. Roth, K.H. Mueller, L. Schultz, *Coercivity mechanism in mold-cast Nd₆₀Fe_xCo_{30-x}Al₁₀ bulk amorphous alloys*, J. Alloys and Compounds 348 (2003) 309 - 313.
563. G. Kumar, J. Eckert, W. Loeser, S. Roth, L. Schultz, *Effect of Al on microstructure and magnetic properties of mould-cast Nd₆₀Fe_{40-x}Al_x alloys*, Scripta Materialia 48 (2003) 321-325.
564. G. Kumar, J. Eckert, S. Roth, W. Loeser, L. Schultz, S. Ram, *Effect of microstructure on the magnetic properties of mold-cast and melt-spun Nd-Fe-Co-Al amorphous alloys*, Acta Mater. 51 (2003) 229 – 238.
565. J. McCord, T. Schmitte, R.T; Schaefer, H. Zabel, L. Schultz, *Kerr microscopy study on sputtered Fe stripes*, IEEE Trans. Magn. 39 (2003) 2687-2689.
566. C. Mitra, P. Raychaudhuri, K. Doerr, K.H. Mueller, L. Schultz, P.M. Oppeneer, S. Wirth, *Observation of minority spin character of the new electron doped manganite La_{0.7}Ce_{0.3}MnO₃ from tunneling magneto-resistance*, Phys. Rev. Lett. 90 (2003) art. no. 017202.
567. H. Rosner, M.D. Johannes, W.E. Pickett, G. Fuchs, A. Waelte, S.L. Drechsler, S.V. Shulga, K.H. Mueller, A. Handstein, K. Nenkov, J. Freudenberger, L. Schultz, *Superconductivity and electronic structure in MgCNi₃*, Physica C 388 (2003) 563-564.
568. G. Saage, S. Roth, J. Eckert, L. Schultz, *Low magnetostriction crystalline ribbons prepared by melt spinning and reactive annealing*, J. Magn. Magn. Mater. 254 (2003) 26 - 28.
569. V.S. Sarma, J. Eickemeyer, A. Singh, L. Schultz, B. Holzapfel, *Development of high strength and strongly cube textured Ni-4.5% W/Ni-15% Cr composite substrate for coated conductor application*, Acta Materialia 51 (2003) 4919-4927.
570. R. Schaefer, D. Chumakov, O. de Haas, L. Schultz, W. Maass, K.U. Barholz, R. Mattheis, *Magnetization processes in spin-valve meanders for sensor applications*, IEEE Trans. Magn. 39 (2003) 2089-2097.
571. F. Schurack, J. Eckert, L. Schultz, *Al-Mn-Ce quasicrystalline composites: phase formation and mechanical properties*, Phil. Mag. 83 (2003) 807-825.
572. F. Schurack, J. Eckert, L. Schultz, *Synthesis and mechanical properties of mechanically alloyed Al-Cu-Fe quasicrystalline composites*, Phil. Mag. 83 (2003) 1287-1305.
573. S. Scudino, J. Eckert, U. Kuehn, L. Schultz, *Formation of quasicrystals by partial devitrification of ball-milled amorphous Zr₅₇Ti₈Nb_{2.5}Cu_{13.9}Ni_{11.1}Al_{7.5}*, Appl. Phys. Lett. 83 (2003) 2345-2347.
574. L.L. Sun, W.K. Wang, L.M. Wang, T. Kikegawa, Q. Wu, J. Zhang, C.Z. Fan, J. Eckert, L. Schultz, *Structural evaluation of Fe₆₀Co₁₀Zr₈Mo₅Nb₂B₁₅ metallic glass under high pressure*, Phys. Rev. B 68 (2003) art. no.-052302.
575. Z.G. Sun, W. Loeser, J. Eckert, K.H. Mueller, L. Schultz, *Effect of cooling rate on microstructure and magnetic properties of Nd₆₀Fe₃₀Al₁₀ hard magnetic alloys*, J. Magn. Magn. Mater. 261 (2003) 122-130.
576. Z.G. Sun, W. Loeser, J. Eckert, K.H. Mueller, L. Schultz, T. Zhu, Z.H. Cheng, *Structural and magnetic properties of Nd₆₀Fe_{30-x}Co_xAl₁₀ melt-spun ribbons*, J. Appl. Phys. 93 (2003) 6930-6932.
577. M. Uhlemann, A. Gebert, M. Herrich, A. Krause, A. Cziraki, L. Schultz, *Electrochemical deposition and modification of Cu/Co-Cu multilayer*, Electrochimica Acta 48 (2003) 3005-3011.
578. S.C. Wimbush, L. Schultz, B. Holzapfel, *Critical current in YNi₂B₂C and HoNi₂B₂C thin films*, Physica C 388 (2003) 191-192.
579. Z.F. Zhang, J. Eckert, L. Schultz, *Difference in compressive and tensile fracture mechanisms of Zr₅₉CU₂₀Al₁₀Ni₈Ti₃ bulk metallic glass*, Acta Materialia 51 (2003) 1167-1179.
580. Z.F. Zhang, J. Eckert, L. Schultz, *Tensile and fatigue fracture mechanisms of a Zr-based bulk metallic glass*, J. Materials Research 18 (2003) 456-465.

581. Z.F. Zhang, G. He, J. Eckert, L. Schultz, *Fracture mechanisms in bulk metallic glassy materials*, Phys. Rev. Lett. 91 (2003) art. no. 045505.
582. V.S. Sarma, J. Eickemeyer, L. Schultz, B. Holzapfel, *Development of high strength and strongly cube textured Ni-5% W/Ni-10% W composite substrate tapes for coated conductor application*, Trans. Indian Inst. of Metals 57 (2004) 651-657.
583. G. Saage, S. Roth, J. Eckert, L. Schultz, Extraction of boron Fe80B20 ribbons by annealing under hydrogen flow, J. de Physique IV 120 (2004) 55-59.
584. C. Cai, B. Holzapfel, J. Haenisch, L. Schultz, *Direct evidence for tailorable flux-pinning force and its anisotropy in RBa₂Cu₃O₇-delta multilayers*, Phys. Rev. B 70 (2004) Art. No. 212501.
585. M. Calin, M. Stoica, J. Eckert, A.R. Yavari, L. Schultz, *Phase formation, thermal stability and crystallization behavior of Cu₄₇Ti₃₃Zr₁₁Ni₈X₁, (X = Fe, Si, Sn, Pb) bulk glassy alloys*, Z. Metallkunde 95 (2004) 970-977.
586. A. Waelte, G. Fuchs, K.H. Mueller, A. Handstein, K. Nenkov, V.N. Narozhnyi, S.L. Drechsler, S. Shulga, L. Schultz, H. Rosner, *Evidence for strong electron-phonon coupling in MgCNi₃*, Phys. Rev. B 70 (2004) art. no. 174503.
587. O. Perner, J. Eckert, W. Haessler, C. Fischer, K.H. Mueller, G. Fuchs, B. Holzapfel, L. Schultz, *Microstructure and impurity dependence in mechanically alloyed nanocrystalline MgB₂ superconductors*, Superconductor Sci. & Techn. 17 (2004) 1148-1153.
588. S. Scudino, C. Mickel, L. Schultz, J. Eckert, X.Y. Yang, D.J. Sordelet, *Quasicrystal formation in mechanically alloyed Zr-Ti-Nb-Cu-Ni-Al glassy powders*, Appl. Phys. Lett. 85 (2004) 4349-4351.
589. V. Neu, S. Melcher, U. Hannemann, S. Faehler, L. Schultz, *Growth, microstructure, and magnetic properties of highly textured and highly coercive Nd-Fe-B films*, Phys. Rev. B 70 (2004) Art. No. 144418.
590. Z.F. Zhang, J. Eckert, L. Schultz, *Fatigue and fracture behavior of bulk metallic glass*, Metallurgical and Materials Trans. A-Physical Metallurgy and Materials Science 35A (2004) 3489-3498.
591. E. Botcharova, J. Freudenberger, L. Schultz, *Mechanical alloying of copper with niobium and molybdenum*, J. Mater. Sci. 39 (2004) 5287-5290.
592. M. Calin, H. Grahl, M. Adam, J. Eckert, L. Schultz, *Synthesis and thermal stability of ball-milled and melt-quenched amorphous and nanostructured Al-Ni-Nd-Co alloys*, J. Mater. Sci. 39 (2004) 5295-5298.
593. J. Freudenberger, E. Botcharova, L. Schultz, *Formation of the microstructure in Cu-Nb alloys*, J. Mater. Sci. 39 (2004) 5343-5345.
594. S. Scudino, U. Kuehn, L. Schultz, H. Breitzke, K. Lueders, J. Eckert, *Formation of quasicrystals in ball-milled amorphous Zr-Ti-Nb-Cu-Ni-Al alloys with different Nb content*, J. Mater. Sci. 39 (2004) 5483-5486.
595. W. Loeser, J. Das, A. Gueth, H.J. Klauss, C. Mickel, U. Kuehn, J. Eckert, S.K. Roy, L. Schultz, *Effect of casting conditions on dendrite-amorphous/nanocrystalline Zr-Nb-Cu-Ni-Al in situ composites*, Intermetallics 12 (2004) 1153-1158.
596. K. Leistner, J. Thomas, H. Schloerb, M. Weisheit, L. Schultz, S. Faehler, *Highly coercive electrodeposited FePt films by postannealing in hydrogen*, Appl. Phys. Lett. 85 (2004) 3498-3500.
597. S.C. Wimbush, L. Schultz, B. Holzapfel, *Angular anisotropy of the upper critical field in YNi₂B₂C*, Physica C 408-10 (2004) 83-84.
598. J. Eickemeyer, D. Selbmann, R. Opitz, V.S. Sarma, B. Holzapfel, L. Schultz, *Nickel DABiTS-tapes as a promising alternative to RABiTS-tapes*, Physica C 408-10 (2004) 906-907.
599. A. Gebert, A.A. Kundig, L. Schultz, K. Hono, *Selective electrochemical dissolution in two-phase La-Zr-Al-Cu-Ni metallic glass*, Scripta Materialia 51 (2004) 961-965.
600. U.K. Mudali, S. Baunack, J. Eckert, L. Schultz, A. Gebert, *Pitting corrosion of bulk glass-forming zirconium-based alloys*, J. Alloys Compounds 377 (2004) 290-297.
601. J. Haenisch, V.S. Sarma, B. Zeimetz, F. Schindler, J. Eickemeyer, L. Schultz, B. Holzapfel, *Simulation of the critical current density and its dependence on geometrical factors in RABiTS based coated conductors*, Superconductor Sci. & Techn. 17 (2004) 1003-1008.
602. C. Cai, B. Holzapfel, J. Haenisch, L. Schultz, *Superconductivity suppression and flux-pinning crossover in artificial multilayers of ternary RBa₂Cu₃O₇-delta (R=Gd, Nd, and Eu)*, Phys. Rev. B 70 (2004) Art. No. 064504.
603. M. Rada, S. Kardelky, I. Mazilu, A. Kirchner, A. Gebert, O. Gutfleisch, L. Schultz, *Corrosion behavior of polymer-bonded NdFeB-based nanocrystalline magnets*, IEEE Trans. Magn. 40 (2004) 2864-2866.
604. S. Kardelky, A. Gebert, O. Gutfleisch, A. Handstein, U. Wyss, L. Schultz, *Corrosion behavior of Sm-Co-based permanent magnets in oxidizing environments*, IEEE Trans. Magn. 40 (2004) 2931-2933.
605. J. Degmova, S.; Roth, J. Eckert, H. Grahl, L. Schultz, *Magnetic properties of bulk amorphous FeAlGaPCBSi samples prepared by ball-milling and subsequent hot pressing*, Mater. Sci. Engg. A 375-77 (2004) 265-269.
606. A. Gebert, R.S. Rao, U. Wolff, S. Baunack, J. Eckert, L. Schultz, *Corrosion behaviour of the Mg₆₅Y₁₀Cu₁₅Ag₁₀ bulk metallic glass*, Mater. Sci. Engg. A 375-77 (2004) 280-284.

607. U. Kuehn, J. Eckert, N. Mattern, L. Schultz, *Microstructure and mechanical properties of slowly cooled Zr-Nb-Cu-Ni-Al composites with ductile bcc phase*, Mater. Sci. Engg. A 375-77 (2004) 322-326.
608. M. Stoica, J. Eckert, S. Roth, L. Schultz, *Preparation of bulk amorphous Fe-Cr-Mo-Ga-P-C-B alloys by copper mold casting*, Mater. Sci. Engg. A 375-77 (2004) 399-402.
609. Z.G. Sun, G. Kumar, W. Loeser, J. Eckert, K.H. Mueller, L. Schultz, *Glass forming ability of Nd₆₀Tm₃₀Al₁₀ (TM = Fe, Co, Ni, Cu, Mn) alloys*, Mater. Sci. Engg. A 375-77 (2004) 403-406.
610. P. Kerschl, U.K. Roessler, B. Idzikowski, A. Handstein, K. Nenkov, N. Mattern, K.H. Mueller, L. Schultz, *Phase formation in the 1-6-6 pseudobinary system Dy(Mn₆Ge₆)(1-x)(Fe₆Al₆)(x)*, Mater. Sci. Engg. A 375-77 (2004) 516-519.
611. S. Deledda, J. Eckert, L. Schultz, *Mechanically alloyed Zr-Cu-Al-Ni-C glassy powders*, Mater. Sci. Engg. A 375-77 (2004) 804-808.
612. O. Filip, R. Hermann, L. Schultz, *Growth kinetics and TiC precipitation phenomena in Nd-Fe-B-Ti-C melts in dependence on cooling parameters and composition*, Mater. Sci. Engg. A 375-77 (2004) 1044-1047.
613. G. Kumar, J. Eckert, S. Roth, W. Loeser, K.H. Mueller, L. Schultz, *Magnetic properties of amorphous Nd-Fe-Co-Al alloys*, Mater. Sci. Engg. A 375-77 (2004) 1083-1086.
614. G. Saage, S. Roth, J. Eckert, L. Schultz, *Low magnetostriction crystalline ribbons prepared by melt-spinning and reactive annealing*, Mater. Sci. Engg. A 375-77 (2004) 1125-1128.
615. A. Yan, A. Bollero, O. Gutfleisch, K.H. Mueller, L. Schultz, *Melt-spun precipitation hardened Sm(Co, Fe, Cu, Zr)(z) magnets*, Mater. Sci. Engg. A 375-77 (2004) 1169-1172.
616. V.S. Sarma, J. Eickemeyer, C. Mickel, L. Schultz, B. Holzapfel, *On the cold rolling textures in some fcc Ni-W alloys*, Mater. Sci. Engg. A 380 (2004) (1-2): 30-33.
617. S. Scudino, J. Eckert, L. Schultz, *Possible influence of quenched-in nuclei on quasicrystal formation in mechanically alloyed Zr₅₇Ti₈Nb_{2.5}Cu_{13.9}Ni_{11.1}Al_{7.5} glassy powder*, J. Materials Research 19 (2004) 2211-2215.
618. A. Krause, M. Uhlemann, A. Gebert, L. Schultz, *The effect of magnetic fields on the electrodeposition of cobalt*, Electrochimica Acta 49 (2004) 4127-4134.
619. S. Faehler, U. Hannemann, M. Weisheit, V. Neu, S. Melcher, S. Leinert, S.C. Wimbush, A. Singh, A. Kwon, B. Holzapfel, L. Schultz, *Pulsed laser deposition of hard magnetic films*, Appl. Phys. A 79 (2004) 1529-1531.
620. J. Das, S.K. Roy, W. Loeser, J. Eckert, L. Schultz, *Novel in situ nanostructure-dendrite composites in Zr-base multicomponent alloy system*, Materials and Manufacturing Processes 19 (2004) 423-437.
621. A. Gaganov, J. Freudenberger, W. Gruenberger, L. Schultz, *Microstructural evolution and its effect on the mechanical properties of Cu-Ag microcomposites*, Z. Metallkunde 95 (6) 425-432.
622. C. Fischer, W. Haessler, C. Rodig, O. Perner, G. Behr, M. Schubert, K. Nenkov, J. Eckert, B. Holzapfel, L. Schultz, *Critical current densities of superconducting MgB₂ tapes prepared on the base of mechanically alloyed precursors*, Physica C 406 (2004) 121-130.
623. P. Kerschl, U.K. Roessler, J.M. Gremecche, B. Idzikowski, D. Eckert, K.H. Mueller, L. Schultz, *High field and Mossbauer investigation of the magnetic structure in melt spun DyFe₆Al₆*, J. Magn. Magn. Mater. 272-76 (2004) 627-628.
624. G. Alcala, S. Mato, T.G. Woodcock, U. Hangen, J. Eckert, A. Gebert, L. Schultz, *Nanomechanical characterization of Ti-base nanostructure-dendrite composite*, Z. Metallkunde 95 (2004) 317-319.
625. A. Neudert, J. McCord, R. Schaefer, L. Schultz, *Dynamic anisotropy in amorphous CoZrTa films*, J. Appl. Phys. 95 (2004) 6595-6597.
626. K. Leistner, E. Backen, B. Schuepp, M. Weisheit, L. Schultz, H. Schloerb, S. Faehler, *Phase formation, microstructure, and hard magnetic properties of electrodeposited FePt films*, J. Appl. Phys. 95 (2004) 7267-7269.
627. J. Lyubina, O. Gutfleisch, K.H. Mueller, L. Schultz, N.M. Dempsey, *Nanocrystalline hard magnetic FePt powders*, J. Appl. Phys. 95 (2004) 7474-7476.
628. M. Weisheit, L. Schultz, S. Faehler, *Textured growth of highly coercive L1(0) ordered FePt thin films on single crystalline and amorphous substrates*, J. Appl. Phys. 95 (2004) 7489-7491.
629. N. Kozlova, T. Walter, K. Doerr, D. Eckert, A. Handstein, Y. Skourski, K.H. Mueller, L. Schultz, *Intergrain magnetoresistance and resistance relaxation of La_{0.7}Sr_{0.3}MnO₃ thin films in pulsed magnetic fields up to 60 T*, Physica B-Cond. Mat. 346 (2004) 74-78.
630. P. Kerschl, U.K. Robler, B. Idzikowski, D. Eckert, K.H. Mueller, L. Schultz, *High-field magnetisation of DyMnxGexFe_{6-x}Al_{6-x} (x=0, 1)*, Physica B-Cond. Mat. 346 (2004) 196-200.
631. G.H.W. Loeser, J. Eckert, L. Schultz, *Microstructure, mechanical properties, and fracture mechanism of As-cast (Ti_{0.5}Cu_{0.25}Ni_{0.15}Sn_{0.05}Zr_{0.05})(100-X)Mo-X composites*, Metallurgical and Materials Trans. A-Phys. Met. and Mat. Sci., 35A (2004) 1591-1601.
632. M. Calin, J. Eckert, L. Schultz, *High-strength Cu-Ti-rich bulk metallic glasses and nano-composites*, Z. Metallkunde 94 (2004) 615-620.

633. C. Cai, B. Holzapfel, J. Haenisch, L. Fernandez, L. Schultz, *Magnetotransport and flux pinning characteristics in $RBa_2Cu_3O_7$ -delta ($R=Gd, Eu, Nd$) and ($Gd1/3Eu1/3Nd1/3$) $Ba_2Cu_3O_7$ -delta high-T-c superconducting thin films on $SrTiO_3(100)$* , Phys. Rev. B **69** (2004) art. no.-10453.
634. S. Parida, S. Ram, J. Eckert, S. Roth, W. Loeser, L. Schultz, *Bulk glass forming and thermal stability in $Fe67.0Co9.5Nd3.0Dy0.5B20$ alloy*, Materials Lett. **58** (2004) 1844-1852.
635. S. Scudino, U. Kuehn, L. Schultz, D. Nagahama, K. Hono, J. Eckert, *Microstructure evolution upon devitrification and crystallization kinetics of $Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5$ melt-spun glassy ribbon*, J. Appl. Phys. **95** (2004) 3397-3403.
636. V.S. Sarma, J. Eickemeyer, L. Schultz, B. Holzapfel, *Recrystallisation texture and magnetisation behaviour of some FCCNi-W alloys*, Scripta Materialia **50** (2004) 953-957.
637. Z.G. Sun, G. Kumar, W. Loeser, J. Eckert, L. Schultz, *Effect of Y addition on the microstructure and magnetic properties of $Nd60-xYxFe30Al10$ mould-cast alloys*, J. Alloys and Compounds **366** (2004) 248-253.
638. E. Botcharova, J. Freudenberger, L. Schultz, *Cu-Nb alloys prepared by mechanical alloying and subsequent heat treatment*, J. Alloys and Compounds **365** (2004) 157-163.
639. K. Khlopkov, O. Gutfleisch, D. Eckert, D. Hinz, B. Wall, W. Rodewald, K.H. Mueller, L. Schultz, *Local texture in Nd-Fe-B sintered magnets with maximised energy density*, J. Alloys and Compounds **365** (2004) 259-265.
640. A. Kirchner, J. Thomas, O. Gutfleisch, D. Hinz, K.H. Mueller, L. Schultz, *HRTEM studies of grain boundaries in die-upset Nd-Fe-Co-Ga-B magnets*, J. Alloys and Compounds **365** (2004) 286-290.
641. C. Cai, B. Holzapfel, J. Haenisch, L. Fernandez, L. Schultz, *High critical current density and its field dependence in mixed rare earth (Nd, Eu, Gd) $Ba_2Cu_3O_7$ -delta thin films*, Appl. Phys. Lett. **84** (2004) 377-379.
642. M. Savyak, S. Hirnyj, H.D. Bauer, M. Uhlemann, J. Eckert, L. Schultz, A. Gebert, *Electrochemical hydrogenation of $Mg65Cu25Y10$ metallic glass*, J. Alloys and Compounds **364** (2004) 229-237.
643. L. Schultz, O. Perner, W. Haessler, C. Fischer, G. Fuchs, B. Holzapfel, J. Eckert, *Mechanically alloyed MgB2 superconductors: Microstructure, tape formation and critical currents*, Metastable, Mechanically Alloyed and Nanocrystalline Materials **24-25** (2005) 559-564.
644. O. Perner, W. Haessler, J. Eckert, C. Fischer, C. Mickel, G. Fuchs, B. Holzapfel, L. Schultz, *Effects of oxide particle addition on superconductivity in nanocrystalline MgB2 bulk samples* Physica C-Superconductivity and its Applications **432** (2005) 15-24.
645. S. Engel, K. Knoth, R. Huehne, L. Schultz, B. Holzapfel, *An all chemical solution deposition approach for the growth of highly textured CeO_2 cap layers on $La2Zr2O_7$ -buffered long lengths of biaxially textured Ni-W substrates for YBCO-coated conductors*, Superconductor Science and Technology **18** (2005) 1385-1390.
646. K. Knoth, B. Schlobach, R. Huehne, L. Schultz, B. Holzapfel, *$La2Zr2O_7$ and Ce-Gd-O buffer layers for YBCO coated conductors using chemical solution deposition*, Physica C-Superconductivity and its Applications **426** (2005) 979-984.
647. C. Thiele, K. Doerr, S. Faehler, L. Schultz, D.C. Meyer, A.A. Levin, P. Paufler, *Voltage-controlled epitaxial strain in $La0.7Sr0.3MnO_3/Pb(Mg_1/3Nb_2/3)O_3-PbTiO_3(001)$ films*, Appl. Phys. Letters **87** (2005) Art. No. 262502.
648. T.G. Woodcock, M. Kusy, S. Mato, G. Alcala, J. Thomas, W. Loeser, A. Gebert, J. Eckert, L. Schultz, *Formation of a metastable eutectic during the solidification of the alloy $Ti60Cu14Ni12Sn4Ta10$* , Acta Materialia **53** (2005) 5141-5149.
649. C. Thiele, K. Doerr, L. Schultz, E. Beyreuther, W.M. Lin, *Piezoelectrically induced resistance modulations in $La0.7Sr0.3MnO_3/Pb(Zr,Ti)O_3$ field effect devices*, Appl. Phys. Lett. **87** (2005) Art. No. 162512.
650. J. Lyubina, I. Opahle, K.H. Mueller, G. Gutfleisch, M. Richter, M. Wolf, L. Schultz, *Magnetocrystalline anisotropy in $L1(0)FePt$ and exchange coupling in $FePt/Fe3Pt$ nanocomposites*, J. Phys. C-Condensed Matter **17** (2005) 4157-4170.
651. A. Singh, V. Neu, R. Tamm, K.S. Rao, S. Faehler, W. Skrotzki, L. Schultz, B. Holzapfel, *Growth of epitaxial $SmCo_5$ films on $Cr/MgO(100)$* , Appl. Phys. Lett. **87** (2005) Art. No. 072505.
652. U. Kuehn, J. Eckert, N. Mattern, L. Schultz, *Formation of micrometer sized quasicrystals in slowly cooled $Zr-Ti-Nb-Cu-Ni-Al$ alloys*, Physica Status Solidi A **202** (2005) 2436-2441.
653. R. Huehne, S. Faehler, L. Schultz, B. Holzapfel, *Thin biaxially textured MgO and TiN films prepared by ion-beam assisted pulsed laser deposition for coated conductor applications*, Physica C-Superconductivity and its Applications **426** (2005) 893-898.
654. A. Waelte, G. Fuchs, K.H. Mueller, S.L. Drechsler, K. Nenkov, L. Schultz, *Role of carbon for superconductivity in $MgCxNi_3$ from specific heat*, Phys. Rev. B **72** (2005) Art. No. 100503.
655. U. Kuehn, N. Mattern, A. Gebert, M. Kusy, M. Bostrom, U. Siegel, L. Schultz, *Nanostructured Zr- and Ti-based composite materials with high strength and enhanced plasticity*, J. Appl. Phys. **98** (2005) Art. No. 054307.
656. N. Kozlova, J. Hagel, M. Doerr, J. Wosnitza, D. Eckert, K.H. Mueller, L. Schultz, I. Opahle, S. Elgazzar, M.

- Richter, G. Goll, H. von Loehneysen, G. Zwicknagl, T. Yoshino, T. Takabatake, *Magnetic-field-induced band-structure change in CeBiPt*, Phys. Rev. Lett. 95 (2005) Art. No. 086403.
657. R. Tamm, A. Singh, V. Neu, K.S. Rao, W. Skrotzki, C.G. Oertel, S. Leinert, S. Fahler, L. Schultz, B. Holzapfel, *Temperature dependence of the texture of Sm-Co thin films*, in: Solid State Phenomena, vol. 105 "Texture and Anisotropy of Polycrystals II" (2005) p. 409-414.
658. M. Nganbe, M. Heilmaier, L. Schultz, *Dependence of mechanical strength on grain structure in the gamma' and oxide dispersion-strengthened nickelbase superalloy PM 3030*, Z. Metallkunde 96 (2005) 625-631.
659. A. Neudert, J. McCord, R. Schaefer, L. Schultz, *Subnanosecond vortex transformation ferromagnetic film elements observed by stroboscopic wide-field Kerr microscopy*, J. Appl. Phys. 97 (2005) Art. No. 10E701.
660. J. Lyubina, O. Gutfleisch, R. Skomski, K.H. Mueller, L. Schultz, *Phase transformations and thermodynamic properties of nanocrystalline FePt powders*, Scripta Materialia 53 (2005) 469-474.
661. A. Waelte, G. Fuchs, K.H. Mueller, A. Handstein, K. Nenkov, V.N. Narozhnyi, S.L. Drechsler, S. Shulga, L. Schultz, H. Rosner, *Strong electron-phonon coupling and sizeable depairing in MgCNi₃*, Chinese J. Phys. 43 (2005) 587-591.
662. N. Mattern, U. Kuehn, A. Gebert, T. Gemming, M. Zinkevich, H. Wendrock, L. Schultz, *Microstructure and thermal behavior of two-phase amorphous Ni-Nb-Y alloy*, Scripta Materialia 53 (2005) 271-274.
663. K. Biswas, S. Ram, L. Schultz, J. Eckert, *Crystallization kinetics of amorphous Fe₆₇Co_{9.5}Nd₃Dy_{0.5}B₂₀*, J. Alloys Compounds 397 (2005) 104-109.
664. L. Schultz, O. de Haas, P. Verges, C. Beyer, S. Roehlig, H. Olsen, L. Kuehn, D. Berger, U. Noteboom, U. Funk, *Superconductively levitated transport system - The SupraTrans project*, IEEE Trans. Applied Superconductivity 15 (2005) 2301-2305.
665. C. Apetrii, H. Schloerb, M. Falter, I. Lampe, L. Schultz, B. Holzapfel, *YBCO thin films prepared by fluorine-free polymer-based chemical solution deposition*, IEEE Trans. Applied Superconductivity 15 (2005) 2642-2644.
666. J. Haenisch, C.B. Cai, V.S. Sarma, L. Schultz, B. Holzapfel, *Transport measurements and J(c) simulations for RABiTS based coated conductors-doping and grain architecture*, IEEE Trans. Applied Superconductivity 15 (2005) 2794-2797.
667. O. Perner, W. Haessler, C. Fischer, G. Fuchs, B. Holzapfel, L. Schultz, J. Eckert, *Enhanced critical current density in nanocrystalline mechanically alloyed MgB₂ bulk and Fe sheathed tapes*, IEEE Trans. Applied Superconductivity 15 (2005) 3192-3195.
668. T.G. Woodcock, G. Alcala, S. Mato, A. Gebert, W. Loeser, J. Eckert, L. Schultz, *Microstructural and nano-mechanical characterisation of multicomponent composites nanocrystalline matrix*, Advanced Engg. Materials 7 (2005) 197-201.
669. O. Gutfleisch, L. Lyubina, K.H. Mueller, L. Schultz, *FePt hard magnets*, Advanced Engg. Materials 7 (2005) 208-212.
670. H.H. Song, O. de Haas, C. Beyer, G. Krabbes, P. Verges, L. Schultz, *Influence of the lateral movement on the levitation and guidance force in the high-temperature superconductor maglev system*, Appl. Phys. Letters 86 (2005) Art. No. 192506.
671. L. Schultz, K. Doerr, A. Kirchner, K.H. Mueller, O. Gutfleisch, *Proceedings of the Joint European Magnetic Symposia (JEMS'04) - Dresden, Germany - September 2004 – Foreword*, J. Magn. Magn. Materials 290 (2005) XI-XII.
672. A. Krause, C. Hamann, M. Uhlemann, A. Gebert, L. Schultz, *Influence of a magnetic field on the morphology of electrodeposited cobalt*, J. Magn. Magn. Materials 290 (2005) 261-264.
673. K. Doerr, K.H. Mueller, N. Kozlova, P. Reutler, R. Klingeler, B.R; Buechner, L. Schultz, *Field dependence of colossal magnetoresistance in magnetic fields up to 50 T*, J. Magn. Magn. Materials 290 (2005) 416-419.
674. P. Kerschl, A. Handstein, K. Khlopkov, O. Gutfleisch, D. Eckert, K. Nenkov, J.C. Tellez-Blanco, R. Groessinger, K.H. Mueller, L. Schultz, *High-field magnetisation of SmCo_{5-x}Cu_x (x approximate to 2.5) determined in pulse fields up to 48 T*, J. Magn. Magn. Materials 290 (2005) 420-423.
675. J. Lyubina, O. Gutfleisch, K.H. Mueller, L. Schultz, *Structure and hysteresis properties of nanocrystalline FePt powders*, J. Magn. Magn. Materials 290 (2005) 547-550.
676. M. Weisheit, L. Schultz, S.L; Faehler, *On the influence of composition on laser-deposited Fe-Pt films*, J. Magn. Magn. Materials 290 (2005) 570-572.
677. A. Singh, R. Tamm, V. Neu, S. Faehler, C.G. Oertel, W. Skrotzki, L. Schultz, B. Holzapfel, *Epitaxial growth of highly coercive Sm-Co thin films using pulsed laser deposition*, J. Appl. Phys. 97 (2005) Art. No. 093902.
678. S. Venkataraman, E. Rozhkova, J. Eckert, L. Schultz, D.J. Sordelet, *Thermal stability and crystallization kinetics of Cu-reinforced Cu₄₇Ti₃₃Zr₁₁Ni₈Si₁ metallic glass composite powders synthesized by ball milling: the effect of particulate reinforcement*, Intermetallics 13 (2005) 833-840.
679. J. McCord, T. Gemming, L. Schultz, J. Fassbender, M.O. Liedke, M. Frommberger, E. Quandt, *Magnetic*

- anisotropy and domain patterning of amorphous films by He-ion irradiation*, Appl. Phys. Letters **86** (2005) Art. No. 162502.
680. S. Scudino, J. Eckert, C. Mickel, L. Schultz, *On the amorphous-to-quasicrystalline phase transformation in ball-milled and melt-spun Zr_{58.2}Ti_{8.2}Cu_{14.2}Ni_{11.4}Al_{7.7} glassy alloys*, J. Non-Cryst. Solids **351** (2005) 856-862.
681. S. Kardelky, A. Gebert, O. Gutfleisch, V. Hoffmann, L. Schultz, *Prediction of the oxidation behaviour of Sm-Co-based magnets*, J. Magn. Magn. Materials **290** (2005) 1226-1229.
682. S. Oswald, I. Mazilu, S. Faehler, W. Gruner, R. Hermann, W. Loser, O. Filip, H. Wendrock, L. Schultz, B. Schmidt, W. Rodewald, *SIMS measurements of oxygen content in the Nd₂Fe₁₄B phase*, J. Magn. Magn. Materials **290** (2005) 1240-1242.
683. A.R. Kwon, U. Hannemann, V. Neu, S. Faehler, L. Schultz, *Microstructure and magnetic properties of highly textured Nd-Fe-B films grown on Ta (100)*, J. Magn. Magn. Materials **290** (2005) 1247-1250.
684. M. Rada, J. Lyubina, A. Gebert, O. Gutfleisch, L. Schultz, *Corrosion behavior of Nd-Fe-B/alpha-Fe nanocomposite magnets*, J. Magn. Magn. Materials **290** (2005) 1251-1254.
685. A. Singh, V. Neu, S. Faehler, L. Schultz, B. Holzapfel, *Effect of composition on phase formation and magnetic properties of highly coercive Sm-Co films*, J. Magn. Magn. Materials **290** (2005) 1259-1262.
686. V. Neu, F. Grossmann, S. Melcher, S. Faehler, L. Schultz, *A local magnetization study of epitaxial Nd-Fe-B films by magnetic force microscopy*, J. Magn. Magn. Materials **290** (2005) 1263-1266.
687. K. Leistner, J. Thomas, S. Baunack, H. Schloerb, L. Schultz, S. Faehler, *Influence of oxygen and copper in electrodeposited FePt films*, J. Magn. Magn. Materials **290** (2005) 1270-1273.
688. M. Stoica, S. Roth, J. Eckert, L. Schultz, M.D. Baro, *Bulk amorphous FeCrMoGaPCB: Preparation and magnetic properties*, J. Magn. Magn. Materials **290** (2005) 1480-1482.
689. A. Neudert, J. McCord, D. Chumakov, R. Schaefer, L. Schultz, *Small-amplitude magnetization dynamics in permalloy elements investigated by time-resolved wide-field Kerr microscopy*, Phys. Rev. B **71** (2005): Art. No. 134405.
690. M. Stoica, J. Eckert, S. Roth, Z.F. Zhang, L. Schultz, W.H. Wang, *Mechanical behavior of Fe_{65.5}Cr₄Mo₄Ga₄Pt₁₂C₅B_{5.5} bulk metallic glass*, Intermetallics **13** (2005) 764-769.
691. S. Mato, G. Alcala, T.G. Woodcock, A. Gebert, J. Eckert, L. Schultz, *Corrosion behaviour of a Ti-base nanostructure-dendrite composite*, Electrochimica Acta **50** (2005) 2461-2467.
692. K. Knoth, R. Huehne, S. Oswald, L. Schultz, B. Holzapfel, *Highly textured La₂Zr₂O₇ buffer layers for YBCO-coated conductors prepared by chemical solution deposition*, Superconductor Sci. Techn. **18** (2005) 334-339.
693. J. Haenisch, C. Cai, R. Huehne, L. Schultz, B. Holzapfel, *Formation of nanosized BaIrO₃ precipitates and their contribution to flux pinning in Ir-doped YBa₂Cu₃O₇-delta quasi-multilayers*, Appl. Phys. Letters **86** (2005) Art. No. 122508.
694. O. Perner, J. Eckert, W. Haessler, C. Fischer, J. Acker, T. Gemming, G. Fuchs, B. Holzapfel, L. Schultz, *Stoichiometry dependence of superconductivity and microstructure in mechanically alloyed MgB₂*, J. Appl. Phys. **97** (2005) Art. No. 056105.
695. M. Calin, M. Stoica, J. Eckert, A.R. Yavari, L. Schultz, *Glass formation and crystallization of Cu₄₇Ti₃₃Zr₁₁Ni₈X₁ (X = Fe, Si, Sn, Pb) alloys*, Materials Science Engg. A **392** (2005) 169-178.
696. D. Chumakov, J. McCord, R. Schaefer, L. Schultz, H. Vinzelberg, R. Kaltoven, I. Moench, *Nanosecond time-scale switching of permalloy thin film elements studied by wide-field time-resolved Kerr microscopy*, Phys. Rev. B **71** (2005) Art. No. 014410.
697. S. Scudino, J. Eckert, C. Mickel, P. Schubert-Bischoff, H. Breitzke, K. Lueders, L. Schultz, *Quasicrystalline phase formation in Zr-Ti-Nb-Cu-Ni-(Al) metallic glasses*, J. Alloys Compounds **387** (2005) 269-273.
698. J. Eickemeyer, D. Selbmann, R. Opitz, H. Wendrock, S. Baunack, V.S. Sarma, B. Holzapfel, L. Schultz, E. Maher, *Effect of sulphur on cube texture formation in microalloyed nickel substrate tapes*, Physica C-Superconductivity and its Applications **418** (2005) 9-15.
699. R.S. Turtelli, C. Bormio-Nunes, G. Kumar, R. Groessinger, J. Eckert, L. Schultz, *Magnetostriction of hard magnetic Nd₈₀Fe₂₀ mold-cast rod*, J. Magn. Magn. Materials **285** (2005) 395-400.
700. S. Venkataraman, M. Stoica, S. Scudino, T. Gemming, C. Mickel, U. Kunz, K.B. Kim, L. Schultz, J. Eckert, *Revisiting the Cu(47)Ti(33)Zr(11)Ni₈Si(1) glass-forming alloy*, Scripta Materialica **54** (2006) 835-840.
701. S. Flohrer, R. Schaefer, J. McCord, S. Roth, L. Schultz, G. Herzer, *Magnetization loss and domain refinement in nanocrystalline tape wound cores*, Acta Materialia **54** (2006) 3253-3259.
702. W. Haessler, B. Birajdar, W. Gruner, M. Herrmann, O. Perner, C. Rodig, M. Schubert, B. Holzapfel, O. Eibl, L. Schultz, *MgB₂ bulk and tapes prepared by mechanical alloying: influence of the boron precursor powder*, Superconductor Science & Technology **19** (2006) 512-520.
703. J. Haenisch, C. Cai, V. Stehr, R. Huehne, J. Lyubina, K. Nenkov, G. Fuchs, L. Schultz, B. Holzapfel, *Formation and pinning properties of growth-controlled nanoscale precipitates in YBa₂Cu₃O₇-delta/transition metal quasi-*

- multilayers*, Superconductor Science & Technology **19** (2006) 534-540.
704. A. Singh, V. Neu, R. Tamm, K. Rao, S. Faehler, W. Skrotzki, L. Schultz, B. Holzapfel, *Pulsed laser deposited epitaxial Sm-Co thin films with uniaxial magnetic texture*, J. Appl. Phys. **99** (2006) Art. No. 08E917.
705. A. Yan, K.H. Mueller, L. Schultz, O. Gutfleisch, *Magnetic entropy change in melt-spun MnFePGe*, J. Appl. Phys. **99** (2006) Art. No. 08K903.
706. R.B. Gangineni, K. Doerr, N. Kozlova, K. Nenkov, K.H. Mueller, L. Schultz, L.S. Lakshmi, *Dependence of the high-field grain-boundary magnetoresistance of ferromagnetic manganites on Curie temperature*, J. Appl. Phys. **99** (2006) Art. No. 053904.
707. O. Gutfleisch, K.H. Mueller, K. Khlopkov, M. Wolf, A. Yan, R. Schaefer, T. Gemming, L. Schultz, *Evolution of magnetic domain structures and coercivity in high-performance SmCo 2 : 17-type permanent magnets*, Acta Materialia **54** (2006) 997-1008.
708. E. Botcharova, J. Freudenberger, A. Gaganov, K. Khlopkov, L. Schultz, *Novel Cu-Nb-wires: Processing and characterisation*, Mat. Sci. Engg. A **416** (2006) 261-268.
709. A. Krause, M. Uhlemann, A. Gebert, L. Schultz, *A study of nucleation, growth, texture and phase formation of electrodeposited cobalt layers and the influence of magnetic fields*, Thin Solid Films **515** (2006) 1694-1700.
710. J. Buschbeck, S. Faehler, M. Weisheit, K. Leistner, J. McCord, B. Rellinghaus, L. Schultz, *Thermodynamics and kinetics during pulsed laser annealing and patterning of FePt films*, J. Appl. Phys. **100** (2006) Art. No. 123901.
711. V. Neu, K. Haefner, A.K. Patra, L. Schultz, *Fully epitaxial, exchange coupled SmCo5/Fe/SmCo5 trilayers*, J. Phys. D-Appl. Phys. **39** (2006) 5116-5120.
712. O. Gutfleisch, K.H. Mueller, M. Wolf, K. Khlopkov, A. Yan, R. Schaefer, T. Gemming, L. Schultz, *Magnetic domains and coercivity in SmCo 2 : 17 type magnets*, J. Iron and Steel Research Int. **13**, Suppl. 1 (2006) 48-59.
713. V. Neu, S. Faehler, A. Singh, A.R. Kwon, A.K. Patra, U. Wolff, K. Haefner, B. Holzapfel, L. Schultz, *Domain structure and magnetic properties of epitaxial rare earth-transition metal thin films*, J. Iron and Steel Research Int. **13**, Suppl. 1 (2006) 102-111.
714. A. Gaganov, J. Freudenberger, E. Botcharova, L. Schultz, *Effect of Zr additions on the microstructure, and the mechanical and electrical properties of Cu-7 wt.%Ag alloys*, Materials Sci. Engg. A **437** (2006) 313-322.
715. U. Queitsch, J. McCord, A. Neudert, R. Schaefer, L. Schultz, K. Rott, H. Brueckl, *Domain wall induced modes of high-frequency response in ferromagnetic elements*, J. Appl. Phys. **100** (2006) Art. No. 093911.
716. J. Lyubina, O. Isnard, O. Gutfleisch, K.H. Mueller, L. Schultz, *Ordering of nanocrystalline Fe-Pt alloys studied by in situ neutron powder diffraction*, J. Appl. Phys. **100** (2006) Art. No. 094308.
717. M. Stoica, J. Eckert, S. Roth, L. Schultz, A.R. Yavari, *Preparation and characterization of Fe-(Cr,Mo,Ga)-(P,C,B) soft magnetic bulk metallic glasses*, J. Optoelectronics and Advanced Materials **8** (2006) 1685-1690.
718. U. Kuehn, K. Eymann, N. Mattern, J. Eckert, A. Gebert, B. Bartusch, L. Schultz, *Limited quasicrystal formation in Zr-Ti-Cu-Ni-Al bulk metallic glasses*, Acta Materialia **54** (2006) 4685-4692.
719. S. Flohrer, R. Schafer, J. McCord, S. Roth, L. Schultz, F. Fiorillo, W. Guenther, G. Herzer, *Dynamic magnetization process of nanocrystalline tape wound cores with transverse field-induced anisotropy*, Acta Materialia **54** (2006) 4693-4698.
720. R. Maass, M. Weisheit, S. Faehler, L. Schultz, *Influence of hydrogen on the growth of FePt thin films*, J. Appl. Phys. **100** (2006) Art. No. 073910.
721. P. Kerschl, N.V. Kozlova, Z. Sniadecki, K. Nenkov, U.K. Roessler, B. Idzikowski, K.H. Mueller, L. Schultz, *Magnetoresistance and magnetization processes in the helimagnetic compound DyMn₆Ge₆ and in related alloys Dy(Mn₆Ge₆)(1-x)(Fe₆Al₆)(x)*, J. Alloys and Compounds **423** (2006) 232-235.
722. K. Leistner, A. Krause, S. Faehler, H. Schloerb, L. Schultz, *Electrode processes during Fe-Pt electrodeposition studied by electrochemical quartz crystal microbalance*, Electrochimica Acta **52** (2006) 170-176.
723. K. Leistner, S. Oswald, J. Thomas, S. Faehler, H. Schloerb, L. Schultz, *Potential dependence of composition and structure of electrodeposited Fe-Pt films*, Electrochimica Acta **52** (2006) 194-199.
724. P. Kerschl, A. Handstein, K. Khlopkov, O. Gutfleisch, R. Groessinger, K.H. Mueller, L. Schultz, *Relation between high-field magnetization and microstructure in bulk SmCo_{2.5}Cu_{2.5}*, IEEE Trans. Magn. **42** (2006) 2903-2905.
725. B. Rellinghaus, E. Mohn, L. Schultz, T. Gemming, M. Acet, A. Kowalik, B.F. Kock, *On the LI(0) ordering kinetics in Fe-Pt nanoparticles*, IEEE Trans. Magn. **42** (2006) 3048-3050.
726. A.K. Patra, V. Neu, S. Faehler, R. Groetzschel, L. Schultz, *Metastable, epitaxial PrCo₇ films with high energy product*, Appl. Phys. Letters **89** (2006) Art. No. 142512.
727. J. Freudenberger, N. Kozlova, A. Gaganov, L. Schultz, H. Witte, H. Jones, *Magnetoresistance up to 50 T of highly strengthened Cu-Ag conductors for pulsed high field magnets*, Cryogenics **46** (2006) 724-729.

728. A.K. Patra, V. Neu, S. Faehler, H. Wendrock, L. Schultz, *Phase formation, texture, and magnetic properties of epitaxial Pr-Co films grown on MgO(100)*, J. Appl. Phys. 100 (2006) Art. No. 043905.
729. U. Kuehn, J. Eckert, L. Schultz, *Annealing-induced phase transitions in a Zr-Ti-Nb-Cu-Ni-Albulkmetallic glass matrix composite containing quasicrystalline precipitates*, Int. J. Materials Research 97 (2006) 996-1000.
730. J. Lyubina, I. Opahle, M. Richter, O. Gutfleisch, K.H. Mueller, L. Schultz, *Influence of composition and order on the magnetism of Fe-Pt alloys: Neutron powder diffraction and theory*, Appl. Phys. Letters 89 (2006) Art. No. 032506.
731. E. Botcharova, J. Freudenberger, L. Schultz, *Mechanical and electrical properties of mechanically alloyed nanocrystalline Cu-Nb alloys*, Acta Materialia 54 (2006) 3333-3341.
732. A. Gebert, B. Khorkounov, U. Wolff, C. Mickel, M. Uhlemann, L. Schultz, *Stability of rapidly quenched and hydrogenated Mg-Ni-Y and Mg-Cu-Y alloys in extreme alkaline medium*, J. Alloys Compounds 419 (2006) 319-327.
733. B. Khorkounov, A. Gebert, C. Mickel, L. Schultz, *Effect of mechanical alloying conditions on the microstructure evolution and electrode characteristics Of Mg₆₃Ni₃₀Y₇*, J. Alloys Compounds 416 (2006) 110-119.
734. J. Fassbender, J. von Borany, A. Muecklich, K. Potzger, W. Moeller, J. McCord, L. Schultz, R. Mattheis, *Structural and magnetic modifications of Cr-implanted Permalloy*, Phys. Rev. B 73 (2006) Art. No. 184410.
735. K. Biswas, S. Ram, S. Roth, L. Schultz, J. Eckert, *Fabrication of bulk amorphous Fe₆₇Co_{9.5}Nd₃Dy_{0.5}B₂₀ alloy by hot extrusion of ribbon and study of the magnetic properties*, J. Materials Science 41 (2006) 3445-3450.
736. S. Roth, M. Stoica, J. Degmova, U. Gaitzsch, J. Eckert, L. Schultz, *Fe-based bulk amorphous soft magnetic materials*, J. Magn. Magn. Mater. 304 (2006) 192-196.
737. U. Gaitzsch, S. Roth, B. Rellinghaus, L. Schultz, *Adjusting the crystal structure of NiMnGa shape memory ferromagnets*, J. Magn. Magn. Mater. 305 (2006) 275-277.
738. K. Leistner, S. Faehler, S. Schloerb, L. Schultz, *Preparation and characterization of electrodeposited Fe/Pt multilayers*, Electrochemistry Communications 8 (2006) 916-920.
739. C. Thiele, K. Doerr, W.M. Lin, K.H. Mueller, L. Schultz, *Multi-ferroic La_{0.7}Sr_{0.3}MnO₃/Pb(Zr,Ti)O₃ bilayers for electrical field-induced resistance modulations*, Sensors and Actuators A-Physical 129 (2006) 180-183.
740. M. Rada, A. Gebert, I. Mazilu, K. Khlopkov, O. Gutfleisch, L. Schultz, W. Rodewald, *Corrosion studies on highly textured Nd-Fe-B sintered magnets*, J. Alloys Compounds 415 (2006) 111-120.
741. U. Kuehn, N. Mattern, A. Gebert, M. Kusy, U. Siegel, L. Schultz, *Ductile Ti-based nanocrystalline matrix composites*, Intermetallics 14 (2006) 978-981.
742. S. Venkataraman, W. Loeser, J. Eckert, T. Gemming, C. Mickel, P. Schubert-Bischoff, N. Wanderka, L. Schultz, D.J. Sordelet, *Nanocrystal development in Cu₄₇Ti₃₃Zr₁₁Ni₈Si₁ metallic glass powders*, J. Alloys Compounds 415 (2006) 162-169.
743. M. Kusy, U. Kuehn, A. Concustell, A. Gebert, J. Das, J. Eckert, L. Schultz, M.D. Baro, *Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass*, Intermetallics 14 (2006) 982-986.
744. S. Venkataraman, J. Eckert, L. Schultz, D.J. Sordelet, *Effect of preannealing on glass transition and crystallization of gas atomized Cu₄₇Ti₃₃Zr₁₁Ni₈Si₁ metallic glass powders*, Intermetallics 14 (2006) 1085-1090.
745. G. Kumar, P. Kerschl, U.K. Roessler, K. Nenkov, K.H. Mueller, L. Schultz, J. Eckert, *High-field magnetization and coercivity of hard magnetic mold-cast Nd₈₀Fe₂₀*, J. Appl. Phys. 99 (2006) Art. No. 083904.
746. J. Lyubina, K. Khlopkov, O. Gutfleisch, K.H. Mueller, L. Schultz, *Intergrain interactions in nanocomposite Fe-Pt powders*, J. Appl. Phys. 99 (2006) Art. No. 08E903.
747. A. Neudert, J. McCord, R. Schaefer, R. Kaltofen, I. Moench, H. Vinzelberg, L. Schultz, *Bloch-line generation in cross-tie walls by fast magnetic-field pulses*, J. Appl. Phys. 99 (2006) Art. No. 08F302.
748. U.K. Mudali, U.; Kuehn, J. Eckert, L. Schultz, A. Gebert, *Corrosion behaviour of zirconium based bulk metallic glasses*, Trans. Indian Institute of Metals 59 (2006) 123-138.
749. A.R. Kwon, S. Faehler, V. Neu, L. Schultz, *Effect of composition on phase formation, microstructure and magnetic properties of Nd-Fe-B thin films*, J. Magn. Magn. Mater. 302 (2006) 252-258.
750. A. Kumar, S. Faehler, H. Schloerb, K. Leistner, L. Schultz, *Competition between shape anisotropy and magnetoelastic anisotropy in Ni nanowires electrodeposited within alumina templates*, Phys. Rev. B 73 (2006) Art. No. 064421.
751. S. Venkataraman, S. Scudino, J. Eckert, T. Gemming, C. Mickel, L. Schultz, D.J. Sordelet, *Nanocrystallization of gas atomized Cu₄₇Ti₃₃Zr₁₁Ni₈Si₁ metallic glass*, J. Materials Research 21 (2006) 597-607.
752. A. Waelte, S.L. Drechsler, G. Fuchs, K.H. Mueller, K. Nenkov, D. Hinz, L. Schultz, *Weak interband coupling in (MgB₂)-B-10: A specific-heat analysis*, Phys. Rev. B 73 (2006) Art. No. 064501.
753. S. Scudino, J. Eckert, H. Breitzke, K. Lueders, L. Schultz, *Influence of ball milling on quasicrystal formation in melt-spun Zr-based glassy ribbons*, Phil. Mag. 86 (2006) 367-371.

754. A. Gebert, U. Kuehn, S. Baunack, N. Mattern, L. Schultz, *Pitting corrosion of zirconium-based bulk glass-matrix composites*, Mat. Sci. Engg. A 415 (2006) 242-249.
755. G. Kumar, O. Filip, W. Loeser, L. Schultz, J. Eckert, *Cooling rate controlled microstructure and magnetic properties of metastable Fe20Nd80 alloys*, Intermetallics 14 (2006) 47-53.
756. N. Scheerbaum, D. Hinz, O. Gutfleisch, W. Skrotzki, L. Schultz, *Compression-induced texture change in NiMnGa-polymer composites observed by synchrotron radiation*, J. Appl. Phys. 101 (2008) Art. No. 09C501.
757. M. Schubert, W. Haessler, C. Rodig, M. Herrmann, K. Schroeder, B. Holzapfel, L. Schultz, *Electron microscopic and metallographical investigations on superconducting MgB2 tapes with mechanically alloyed precursor powder*, Praktische Metallographie-Practical Metallography 44 (2007) 566-578.
758. Y. Yokoyama, E. Mund, A. Inoue, L. Schultz, *Production of Zr(55)Cu(30)N(i)5Al(10) glassy alloy rod of 30 mm in diameter by a cap-cast technique*, Materials Trans. 48 (2007) 3190-3192.
759. M. Herrmann, W. Haessler, C. Mickel, W. Gruner, B. Holzapfel, L. Schultz, *The effect of reactive nanostructured carbon on the superconducting properties of mechanically alloyed MgB2*, Superconductor Science & Techn. 20 (2007) 1108-1114.
760. J. Buschbeck, I. Lindemann, L. Schultz, S. Faehler, *Growth, structure, and texture of epitaxial Fe100-xPdx films deposited on MgO(100) at room temperature: An x-ray diffraction study*, Phys. Rev. B 76 (2007) Art. No. 205421.
761. C. Rongeat, I. Llamas-Jansa, S. Doppiu, S. Deledda, A. Borgschulte, L. Schultz, O. Gutfleisch, *Determination of the heat of hydride formation/decomposition by high-pressure differential scanning calorimetry (HP-DSC)*, J. Phys. Chem. B 111 (2007) 13301-13306.
762. S. Haindl, M. Weisheit, V. Neu, L. Schultz, B. Holzapfel, *Epitaxial heterostructures of hard magnetic and superconducting thin films*, Physica C-Superconductivity and its Applications 463 (2007) 1001-1004.
763. K. Knoth, S. Engel, C. Apetrii, M. Falter, B. Schlobach, R. Huehne, S. Oswald, L. Schultz, B. Holzapfel, *Chemical solution deposition of YBa2Cu(3)O(7-x)coated conductors*, Current Opinion in Solid State & Materials Science 10 (2006) 205-216.
764. K.H. Mueller, G. Fuchs, S.L. Drechsler, I. Opahle, H. Eschrig, L. Schultz, G. Behr, W. Loeser, D. Souptel, A. Waelte, K. Nenkov, Y. Naidyuk, H. Rosner, *Multiband superconductivity in HoNi₂B₂C*, Physica C-Superconductivity and its Applications 460 (2007) 99-102.
765. M. Herrmann, W. Haessler, O. Perner, C. Rodig, M. Schubert, B. Holzapfel, L. Schultz, *MgB₂ bulk and tapes prepared by mechanical alloying: Influence of the boron precursor*, Physica C-Superconductivity and its Applications 460 (2007) 593-594.
766. F. Schaeffel, C. Kramberger, M.H. Ruemmeli, D. Grimm, E. Mohn, T. Gemming, T. Pichler, B. Rellinghaus, B. Buechner, L. Schultz, *Nanoengineered catalyst particles as a key for tailor-made carbon nanotubes*, Chemistry of Materials 19 (2007) 5006-5009.
767. T. Shapoval, V. Neu, U. Wolff, R. Huehne, J. Haenisch, E. Backen, B. Holzapfel, L. Schultz, *Study of pinning mechanisms in YBCO thin films by means of magnetic force microscopy*, Physica C-Superconductivity and its Applications 460 (2007) 732-733.
768. S. Haindl, V. Neu, L. Schultz, B. Holzapfel, *Nb/SnCO₅ bilayers prepared by UHV - pulsed laser deposition*, Physica C-Superconductivity and its Applications 460 (2007) 1390-1391.
769. R.B. Gangineni, L. Schultz, C. Thiele, I. Moench, K. Doerr, *Reversible strain effect in La_{0.7}Sr_{0.3}MnO₃ step edge junctions*, Appl. Phys. Letters 91 (2007) Art. No. 122512.
770. M. Sparling, E. Backen, T. Freudenberg, R. Huehne, B. Rellinghaus, L. Schultz, B. Holzapfel, *Artificial pinning centres in YBCO thin films induced by substrate decoration with gas-phase-prepared Y₂O₃ nanoparticles*, Superconductor Sci. & Techn. 20 (2007) S239-S246.
771. U. Gaitzsch, M. Poetschke, S. Roth, B. Rellinghaus, L. Schultz, *Mechanical training of polycrystalline 7 M Ni₅₀Mn₃₀Ga₂₀ magnetic shape memory alloy*, Scripts Materialia 57 (2007) 493-495.
772. A. Gebert, N. Mattern, U. Kuehn, J. Eckert, L. Schultz, *Electrode characteristics of two-phase glass-forming Ni-Nb-Y alloys*, Intermetallics 15 (2007) 1183-1189.
773. K. Khlopkov, O. Gutfleisch, D. Hinz, K.H. Mueller, L. Schultz, *Evolution of interaction domains in textured fine-grained Nd₂Fe₁₄B magnets*, J. Appl. Phys. 102 (2007) Art. No. 023912.
774. L. Kuehn, M. Mueller, R. Schubert, C. Beyer, O. de Haas, L. Schultz, *Static and dynamic behavior of a superconducting magnetic bearing using YBCO bulk material*, IEEE Trans. Appl. Superconductivity 17 (2007) 2079-2082.
775. C. Beyer, O. de Haas, L. Kuehn, L. Schultz, *A turnout switch for a superconductively levitated linear transport system*, IEEE Trans. Appl. Superconductivity 17 (2007) 2129-2132.
776. W. Haessler, M. Herrmann, B. Birajdar, C. Rodig, M. Schubert, B. Holzapfel, O. Eibl, L. Schultz,

- Superconducting MgB₂ tapes prepared using mechanically alloyed nanocrystalline precursor powder*, IEEE Trans. Appl. Superconductivity 17 (2007) 2919-2921.
777. R. Huehne, J. Eickemeyer, D. Selbmann, L. Schultz, B. Holzapfel, *Improved critical current densities of coated conductors by high aspect ratio grains*, IEEE Trans. Appl. Superconductivity 17 (2007) 3239-3242.
778. E. Backen, J. Haenisch, R. Huehne, K. Tscharntke, S. Engel, T. Thersleff, L. Schultz, B. Holzapfel, *Improved pinning in YBCO based quasi-multilayers prepared by on- and off-axis pulsed laser deposition*, IEEE Trans. Appl. Superconductivity 17 (2007) 3733-3736.
779. M. Herrmann, W.(Haessler, C. Rodig, W. Gruner, B. Holzapfel, L. Schultz, *Touching the properties of NbTi by carbon doped tapes with mechanically alloyed MgB₂*, Appl. Phys. Letters 91 (2007) Art. No. 082507.
780. U. Wolff, A. Singh, L. Schultz, V. Neu, *Switching behaviour of patterned SmCo₅ thin films investigated by magnetic force microscopy*; J. Magn. Magn. Mater. 310 (2007) 2210-2212.
781. J. Wosnitza, A.D. Bianchi, J. Freudenberger, J. Haase, T. Herrmannsdoerfer, N. Kozlova, L. Schultz, Y. Skourski, S. Zherlitsyn, S.A. Zvyagin, *Dresden pulsed magnetic field facility*, J. Magn. Magn. Mater. 310 (2007) 2728-2730.
782. D. Hinz, N. Scheerbaum, O. Gutfleisch, K.H. Mueller, L. Schultz, *Polyester-bonded textured composites with single-crystalline shape memory Ni-Mn-Ga particles*, J. Magn. Magn. Mater. 310 (2007) 2785-2787.
783. U. Gaitzsch, M. Poetschke, S. Roth, N. Mattern, B. Rellinghaus, L. Schultz, *Structure formation in martensitic Ni₅₀Mn₃₀Ga₂₀ MSM alloy*, J. Alloys Compounds 443 (2007) 99-104.
784. S.S. Vadlamani, J. Eickemeyer, L. Schultz, B. Holzapfel, *Rolling and recrystallisation textures in Cu-Al, Cu-Mn and Cu-Ni alloys*, J. Mater. Sci. 42 (2007) 7586-7591.
785. A.D. Bianchi, J. Wosnitza, N. Kozlova, J. Freudenberger, L. Schultz, I. Opahle, S. Elgazzar, M. Richter, G. Goll, H.Vvon Loehneysen, T. Yoshino, T. Takabatake, *Fermi surfaces of the half-Heusler compounds Ce_{1-x}LaxBiPt*, J. Magn. Magn. Mater. 310 (2007) E261-E263.
786. J.W. Kim, K. Doerr, A.R. Kwon, L. Schultz, *Epitaxial growth of multiferroic HoMnO₃ films and capacitor trilayers*, J. Magn. Magn. Materials 310 (2007) E352-E354.
787. K. Doerr, C. Thiele, O. Bilani, A. Herklotz, L. Schultz, *Dynamic strain in magnetic films on piezoelectric crystals*, J. Magn. Magn. Mater. 310 (2007) 1182-1184.
788. F. Schaeffel, C. Kramberger, M.H. Ruemmeli, R. Kaltofen, D. Grimm, A. Grueneis, E. Mohn, T. Gemming, T. Pichler, B. Buechner, B. Rellinghaus, L. Schultz, *Carbon nanotubes grown from individual gas phase prepared iron catalyst particles*, Physica Status Solidi A 204 (2007) 1786-1790.
789. R. Huehne, V.S. Sarma, D. Okai, T. Thersleff, L. Schultz, B. Holzapfel, *Preparation of coated conductor architectures on Ni composite tapes*, Superconductor Sci. & Techn. 20 (2007) 709-714.
790. M. Poetschke, U. Gaitzsch, S. Roth, B. Rellinghaus, L. Schultz, *Preparation of melt textured Ni-Mn-Ga*, J. Magn. Magn. Mater. 316 (2007) 383-385.
791. A. Neudert, J. McCord, R. Schaefer, L. Schultz, *Domain-wall transformation by high-frequency magnetic fields*, Phys. Rev. B 75 (2007) Art. No. 172404.
792. A.K. Patra, V. Neu, S. Faehler, R. Groetzschel, S. Bedanta, W. Kleemann, L. Schultz, *Crystal structure and its correlation to intrinsic and extrinsic magnetic properties of epitaxial hard magnetic Pr-Co films*, Phys. Rev. B 75 (2007) Art. No. 184417.
793. K. Werniewicz, U. Kuehn, N. Mattern, B. Bartusch, J. Eckert, J. Das, L. Schultz, T. Kulik, *New Fe-Cr-Mo-Ga-C composites with high compressive strength and large plasticity*, Acta Materialia 55 (2007) 3513-3520.
794. K.Z. Rozman, A. Krause, K. Leistner, S. Faehler, L. Schultz, H. Schloerb, *Electrodeposition and hard magnetic properties of Co-Pt films in comparison to Fe-Pt film*, J. Magn. Magn. Mater. 314 (2007) 116-121.
795. A.R. Kwon, V. Neu, L. Schultz, S. Faehler, *Morphology and hard magnetic properties of epitaxial Nd-Fe-B films grown on Mo and Cr/Ta buffers*, J. Appl. Phys. 101 (2007) Art. No. 09K506.
796. J.W. Kim, K. Doerr, K. Nenkov, L. Schultz, *Multiferroic properties of HoMnO₃ films and capacitor trilayers*, J. Appl. Phys. 101 (2007) Art. No. 09M108.
797. N. Scheerbaum, D. Hinz, O. Gutfleisch, K.H. Mueller, L. Schultz, *Textured polymer bonded composites with Ni-Mn-Ga magnetic shape memory particles*, Acta Materialia 55 (2007) 2707-2713.
798. A. Gebert, S. Roth, R. Gopalan, A.A. Kuendig, L. Schultz, *Corrosion behaviour of FePt-based bulk magnets in artificial saliva solution*, J. Alloys Compounds 436 (2007) 309-312.
799. L.C. Zhang, M. Calin, M. Branzei, L. Schultz, J. Eckert, *Phase stability and consolidation of glassy/nanostructured Al₈₅Ni₉Nd₄Co₂ alloys*, J. Mater. Res. 22 (2007) 1145-1155.
800. M. Stoica, J. Eckert, S. Roth, A.R. Yavari, L. Schultz, *Fe_{65.5}Cr₄Mo₄Ga₄P₁₂C₅B_{5.5} BMGs: Sample preparation, thermal stability and mechanical properties*, J. Alloys Compounds 434 (2007) 171-175.
801. S. Venkataraman, J. Eckert, L. Schultz, D.J. Sordelet, *Studies on the crystallization kinetics of Cu-reinforced partially crystalline Cu₄₇Ti₃₃Zr₁₁Ni₈Si₁ metallic glass composite*, J. Alloys Compounds 434 (2007) 203-206.

802. S. Scudino, J. Eckert, H. Breitzke, K. Lueders, L. Schultz, *Effect of Zr on the crystallization behavior of multi-component Zr-based metallic glasses*, *J. Alloys Compounds* **434** (2007) 434: 217-220.
803. J. McCord, R. Kaltoven, T. Gemming, R. Huehne, L. Schultz, *Aspects of static and dynamic magnetic anisotropy in Ni₈₁Fe₁₉-NiO films*, *Phys. Rev. B* **75** (2007) Art. No. 134418.
804. K. Doerr, C. Thiele, J.W. Kim, O. Bilani, K. Nenkov, L. Schultz, *Approaches towards ferroelectric control of thin film magnetism*, *Phil. Mag. Letters* **87** (2007) 269-278.
805. Y.W. Lai, N. Scheerbaum, D. Hinz, O. Gutfleisch, R. Schaefer, L. Schultz, J. McCord, *Absence of magnetic domain wall motion during magnetic field induced twin boundary motion in bulk magnetic shape memory alloys*, *Appl. Phys. Letters* **90** (2007) Art. No. 192504.
806. S. Scudino, J. Eckert, X.Y. Yang, D.J. Sordelet, L. Schultz, *Conditions for quasicrystal formation from mechanically alloyed Zr-based glassy powders*, *Intermetallics* **15** (2007) 571-582.
807. S. Venkataraman, H. Hermann, C. Mickel, L. Schultz, D.J. Sordelet, J. Eckert, *Calorimetric study of the crystallization kinetics of Cu₄₇Ti₃₃Zr₁₁Ni₈Si₁ metallic glass*, *Phys. Rev. B* **75** (2007) Art. No. 104206..
808. N. Mattern, U. Kuehn, A. Gebert, A. Schoeps, T. Gemming, L. Schultz, *Phase separation in liquid and amorphous Ni-Nb-Y alloys*, *Mater. Sci. Engg. A* **449** (2007) 207-210.
809. S. Scudino, J. Eckert, H. Breitzke, K. Lueders, L. Schultz, *Influence of oxygen on the devitrification of Zr-Ti-Nb-Cu-Ni-Al metallic glasses*, *Mater. Sci. Engg. A* **449** (2007) 493-496.
810. D.L. Bashlakov, Y.G. Naidyuk, I.K. Yanson, G. Behr, S.L. Drechsler, G. Fuchs, L. Schultz, D. Souptel, *Point-contact spectroscopy of the borocarbide superconductor YNi₂B₂C in the normal and superconducting state*, *J. Low Temperature Phys.* **147** (2007) 335-352.
811. A. Krause, M. Uhlemann, A. Gebert, L. Schultz, *Investigation of nucleation processes under the influence of magnetic fields*, *J. Solid State Electrochemistry* **11** (2007) 679-685.
812. U. Queitsch, E. Mohn, F. Schaeffel, L. Schultz, B. Rellinghaus, A. Blueher, M. Mertig, *Regular arrangement of nanoparticles from the gas phase on bacterial surface-protein layers*, *Appl. Phys. Lett.* **90** (2007) Art. No. 113114.
813. M. Weisheit, L. Schultz, S. Faehler, *Temperature dependence of FePt thin film growth on MgO(100)*, *Thin Solid Films* **515** (2007) 3952-3955.
814. S. Engel, T. Thersleff, R. Huehne, L. Schultz, B. Holzapfel, B. *Enhanced flux pinning in YBa₂Cu₃O₇ layers by the formation of nanosized BaHfO₃ precipitates using the chemical deposition method*, *Appl. Phys. Lett.* **90** (2007) Art. No. 102505.
815. C. Thiele, K. Doerr, O. Bilani, J. Roedel, L. Schultz, *Influence of strain on the magnetization and magnetoelectric effect in La(0.7)A(0.3)MnO(3)/PMN-PT(001) (A=Sr,Ca)*, *Phys. Rev. B* **75** (2007) Art. No. 054408.
816. S. Doppiu, L. Schultz, O. Gutfleisch, *In situ pressure and temperature monitoring during the conversion of Mg into MgH₂ by high-pressure reactive ball milling*, *J. Alloys Compounds* **427** (2007) 204-208.
817. K. Knoth, R. Huehne, S. Oswald, L. Schultz, B. Holzapfel, *Detailed investigations on La₂Zr₂O₇ buffer layers for YBCO-coated conductors prepared by chemical solution deposition*, *Acta Materialia* **55** (2007) 517-529.
818. J.W. Kim, L. Schultz, K. Doerr, B.B. Van Aken, M. Fiebig, *Growth and multiferroic properties of hexagonal HoMnO₃ films*, *Appl. Phys. Letters* **90** (2007) Art. No. 012502.
819. J. Eickemeyer, D. Selbmann, R. Huehne, H. Wendrock, J. Haenisch, A. Gueth, L. Schultz, B. Holzapfel, *Elongated grains in textured substrate tapes and their effect on transport currents in superconductor layers*, *Appl. Phys. Letters* **90** (2007) Art. No. 012510.
820. E.S. Park, E.Y. Jeong, J.K. Lee, J.C. Bae, A.R. Kwon, A. Gebert, L. Schultz, H.J. Chang, D.H. Kim, *In situ formation of two glassy phases in the Nd-Zr-Al-Co alloy system*, *Scipta Materialia* **56** (2007) 197-200.
821. J. Lyubina, K. Nenkov, L. Schultz, O. Gutfleisch, *Multiple Metamagnetic Transitions in the Magnetic Refrigerant La(Fe, Si)(13)H-x*, *Phys. Rev. Lett.* **101** (2008) Art. No. 177203.
822. F. Schaeffel, C. Schuenemann, M.H. Ruemmeli, C. Taeschner, D. Pohl, C. Kramberger, T. Gemming, A. Leonhardt, T. Pichler, B. Rellinghaus, B. Buechner, L. Schultz, *Comparative study on thermal and plasma enhanced CVD grown carbon nanotubes from gas phase prepared elemental and binary catalyst particles*, *Physica Status Solidi B* **245** (2008) 1919-1922.
823. M.H. Ruemmeli, F. Schaeffel, T. de los Arcos, D. Haberer, A. Bachmatiuk, C. Kramberger, P. Ayala, E. Borowiak-Palen, D. Adebimpe, T. Gemming, A. Leonhardt, B. Rellinghaus, L. Schultz, T. Pichler, B. Buechner, *On the graphitisation role of oxide supports in carbon nanotube CVD synthesis*, *Physica Status Solidi B* **245** (2008) 1939-1942.

824. P.F. Gostin, R. Sueptitz, A. Gebert, U. Kuehn, L. Schultz, *Comparing the corrosion behaviour of Zr-66/Ti-66-Nb13Cu8Ni6.8Al6.2 bulk nano structure-dendrite composites*, *Intermetallics* **16** (2008) 1179-1184.
825. Y.W. Lai, R. Schaefer, L. Schultz, J. McCord, *Direct observation of AC field-induced twin-boundary dynamics in bulk NiMnGa*, *Acta Materialia* **56** (2008) 5130-5137.
826. S. Engel, R. Huehne, K. Knoth, A. Chopra, N.H. Kumar, V.S. Sarma, P.N. Santhosh, L. Schultz, B. Holzapfel, *Optimisation of single La₂Zr₂O₇ buffer layers for YBCO coated conductors prepared by chemical solution deposition*, *J. Crystal Growth* **310** (2008) 4295-4300.
827. O. Bilani-Zeneli, A.D. Rata, A. Herklotz, O. Mieth, L.M. Eng, L. Schultz, M.D. Biegalski, H.M. Christen, K. Doerr, *SrTiO₃ on piezoelectric PMN-PT(001) for application of variable strain*, *J. Appl. Phys.* **104** (2008) Art. No. 054108.
828. T. Shapoval, S. Engel, M. Gruendlich, D. Meier, E. Backen, V. Neu, B. Holzapfel, L. Schultz, *Nanoscale wedge polishing of superconducting thin films - an easy way to obtain depth dependent information by surface analysis techniques*, *Superconductor Science & Technology* **21** (2008) Art. No. 105015.
829. J. McCord, C. Hamann, R. Schaefer, L. Schultz, *Nonlinear exchange coupling and magnetic domain asymmetry in ferromagnetic/IrMn thin films*, *Phys. Rev. B* **78** (2008) Art. No. 094419.
830. Z. Sniadecki, B. Idzikowski, J.M. Greneche, P. Kerschl, U.K. Roessler, L. Schultz, *Independence of magnetic behavior for different structural states in melt-spun DyMn_{6-x}Ge_{6-x}FexAl_x (0 <= x <= 6)*, *J. Phys. – Cond. Matter* **20** (2008) Art. No. 425212.
831. J.A. Koza, M. Uhlemann, A. Gebert, L. Schultz, *Nucleation and growth of the electrodeposited iron layers in the presence of an external magnetic field*, *Electrochimica Acta* **53** (2008) 7972-7980.
832. J.A. Koza, M. Uhlemann, A. Gebert, L. Schultz, *Desorption of hydrogen from the electrode surface under influence of an external magnetic field*, *Electrochemistry Communications* **10** (2008) 1330-1333.
833. K. Leistner, P. Schaaf, A. Voss, S. Faehler, L. Schultz, H. Schloerb, *Interfacial Fe(III)-hydroxide formation during Fe-Pt alloy deposition*, *Electrochimica Acta* **53** (2008) 6973-6977.
834. E.S. Park, J.Y. Lee, D.H. Kim, A. Gebert, L. Schultz, *Correlation between plasticity and fragility in Mg-based bulk metallic glasses with modulated heterogeneity*, *J. Appl. Phys.* **104** (2008) Art. No. 023520.
835. H.B. Lu, L.C. Zhang, A. Gebert, L. Schultz, *Pitting corrosion of Cu-Zr metallic glasses in hydrochloric acid solutions*, *J. Alloys Compounds* **462** (2008) 60-67.
836. C. Hamann, I. Moench, R. Kaltofen, R. Schaefer, T. Gemming, L. Schultz, J. McCord, *Size effects on the magnetization reversal behavior of exchange bias modulated thin films*, *J. Appl. Phys.* **104** (2008) Art. No. 013926.
837. J. Freudenberger, H.J. Klauss, K. Heinze, A. Gaganov, M. Schaper, L. Schultz, *Fatigue of highly strengthened Cu-Ag alloys*, *Int. J. of Fatigue* **30** (2008) 437-443.
838. K. Werniewicz, U. Kuehn, N. Mattern, B. Bartusch, U. Siegel, L. Schultz, T. Kulik, *Advanced high-strength and ductile Fe-Cr-Mo-Ga-Si alloys*, *Rev. Advanced Materials Science* **18** (2008) 140-143.
839. N. Scheerbaum, O. Heczko, J. Liu, D. Hinz, L. Schultz, O. Gutfleisch, *Magnetic field-induced twin boundary motion in polycrystalline Ni-Mn-Ga fibres*, *New J. Phys.* **10** (2008) Art. No. 073002.
840. F. Schaeffel, M.H. Ruemmeli, C. Kramberger, U. Queitsch, E. Mohn, R. Kaltofen, T. Pichler, B. Buechner, B. Rellinghaus, L. Schultz, *Tailoring the diameter, density and number of walls of carbon nanotubes through predefined catalyst particles*, *Physica Status Solidi A* **205** (2008) 1382-1385.
841. M.H. Ruemmeli, F. Schaeffel, M. Loeffler, C. Kramberger, D. Adebimpe, T. Gemming, P. Ayala, B. Rellinghaus, L. Schultz, B. Buechner, T. Pichler, *Unifying catalyst size dependencies in floating catalyst and supported catalyst carbon nanotube synthesis*, *Physica Status Solidi A* **205** (2008) 1386-1390.
842. W.M. Wang, A. Gebert, S. Roth, U. Kuehn, L. Schultz, *Effect of Si on the glass-forming ability, thermal stability and magnetic properties of Fe-Co-Zr-Mo-W-B alloys*, *J. Alloys Compounds* **459** (2008) 203-208.
843. J. McCord, L. Schultz, J. Fassbender, *Hybrid soft-magnetic lateral exchange spring films prepared by ion irradiation*, *Advanced Materials* **20** (2008) 2090.
844. J. Buschbeck, I. Opahle, S. Faehler, L. Schultz, M. Richter, *Magnetic properties of Fe-Pd magnetic shape memory alloys: Density functional calculations and epitaxial films*, *Phys. Rev. B* **77** (2008) Art. No. 174421.
845. S. Widuch, Z. Celinski, K. Balin, R. Schaefer, L. Schultz, D. Skrzypek, J. McCord, *Variation in ferromagnetic domain density and domain asymmetry in Fe/FeF₂ exchange bias structures*, *Phys. Rev. B* **77** (2008) Art. No. 184433.
846. U. Queitsch, D. Pohl, A. Blueher, M. Mertig, L. Schultz, B. Rellinghaus, *Magnetic field induced improvement of the arrangement of nanomagnets from the gas phase on S layers*, *J. Phys. D-Appl. Phys.* **41** (2008) Art. No. 134019.

847. J.A. Koza, M. Uhlemann, A. Gebert, L. Schultz, *The effect of a magnetic field on the pH value in front of the electrode surface during the electrodeposition of Co, Fe and CoFe alloys*, J. Electroanalytical Chemistry **617** (2008) 194-202.
848. B. Khorkounov, A. Gebert, C. Mickel, L. Schultz, *Improving the performance of hydrogen storage electrodes based on mechanically alloyed Mg₆₁Ni₃₀Y₉*, J. Alloys Compounds **458** (2008) 479-486.
849. M. Thomas, O. Heczko, J. Buschbeck, L. Schultz, S. Faehler, *Stress induced martensite in epitaxial Ni-Mn-Ga films deposited on MgO(001)*, Appl. Phys. Lett. **92** (2008) Art. No. 192515.
850. R. Huehne, D. Okai, K. Doerr, S. Trommler, A. Herklotz, B. Holzapfel, L. Schultz, *Dynamic investigations on the influence of epitaxial strain on the superconducting transition in YBa₂Cu₃O_{7-x}*, Superconductor Science & Technology **21** (2008) Art. No. 075020.
851. I. Llamas-Jansa, C. Rongeat, S. Doppiu, O. Gutfleisch, L. Schultz, *Characterisation of complex hydrides synthesised or modified by ball milling*, Int. J. Mater. Research **99** (2008) 553-556.
852. J.A. Koza, M. Uhlemann, A. Gebert, L. Schultz, *The effect of magnetic fields on the electrodeposition of CoFe alloys*, Electrochimica Acta **53** (2008) 5344-5353.
853. K. Knoth, R. Huehne, S. Oswald, L. Molina, O. Eibl, L. Schultz, B. Holzapfel, *Growth of thick chemical solution derived pyrochlore La₂Zr₂O₇ buffer layers for YBa₂Cu₃O_{7-x} coated conductors*, Thin Solid Films **516** (2008) 2099-2108.
854. M. Thomas, O. Heczko, J. Buschbeck, U.K. Roessler, J. McCord, N. Scheerbaum, L. Schultz, S. Faehler, *Magnetically induced reorientation of martensite variants in constrained epitaxial Ni-Mn-Ga films grown on MgO(001)*, New J. Phys. **10** (2008) Art. No. 023040.
855. O. Heczko, M. Thomas, J. Buschbeck, L. Schultz, S. Faehler, *Epitaxial Ni-Mn-Ga films deposited on SrTiO₃ and evidence of magnetically induced reorientation of martensitic variants at room temperature*, Appl. Phys. Lett. **92** (2008) Art. No. 072502.
856. J. Koza, M. Uhlemann, A. Gebert, L. Schultz, *The effect of magnetic fields on the electrodeposition of iron*, J. Solid Electrochem. **12** (2008) 181-192.
857. G. Behr, W. Loeser, D. Souptel, G. Fuchs, I. Mazilu, C.D. Cao, A. Koehler, L. Schultz, B. Buechner, *Crystal growth of rare earth-transition metal borocarbides and silicides*, J. Crystal Growth **310** (2008) 2268-2276.
858. F. Khelfaoui, M. Kohl, J. Buschbeck, O. Heczko, S. Faehler, L. Schultz, *A fabrication technology for epitaxial Ni-Mn-Ga microactuators*, European Phys. J. **158** (2008) 167-172.
859. J. McCord, R. Kaltofen, O.G. Schmidt, L. Schultz, *Tuning of magnetization dynamics by ultrathin antiferromagnetic layers*, Appl. Phys. Lett. **92** (2008) Art. No. 162506.
860. J. Buschbeck, O. Heczko, A. Ludwig, S. Faehler, L. Schultz, *Magnetic properties of epitaxial Fe-Pd films measured at elevated temperatures*, . Appl. Phys. **103** (2008) Art. No. 07B334.
861. I. Mazilu, A. Teresiak, J. Werner, G. Behr, C.D. Cao, W. Loeser, J. Eckert, L. Schultz, *Phase diagram studies on Er₂PdSi₃ and ErPd₂Si₂ intermetallic compounds*, J. Alloys Compounds **454** (2008) 221-227.
862. S. Haindl, M. Weisheit, T. Thersleff, L. Schultz, B. Holzapfel, *Enhanced field compensation effect in superconducting/hard magnetic Nb/FePt bilayers*, Superconductor Sci. & Techn. **21** (2008) Art. No. 045017.
863. A. Singh, V. Neu, S. Faehler, K. Nenkov, L. Schultz, B. Holzapfel, *Mechanism of coercivity in epitaxial SmCo₅ thin films*, Phys. Rev. B **77** (2008) Art. No. 104443.
864. A. Gebert, V. Haehnel, E.S. Park, D.H. Kim, L. Schultz, *Corrosion behaviour of Mg₆₅Cu_{7.5}Ni_{7.5}Ag₅-Zn₅Gd₅Y₅ bulk metallic glass in aqueous environments*, Electrochimica Acta **53** (2008) 3403-3411.
865. A.D. Rata, A. Herklotz, K. Nenkov, L. Schultz, K. Doerr, *Strain-induced insulator state and giant gauge factor of La_{0.7}Sr_{0.3}CoO₃ films*, Phys. Rev. Lett. **100** (2008) Art. No. 076401.
866. W.M. Wang, A. Gebert, S. Roth, U. Kuehn, L. Schultz, *Glass formability and fragility of Fe₆₁Co_{9-x}Zr_x-Mo₅W_xB₁₇ (x=0 and 2) bulk metallic glassy alloys*, Intermetallics **16** (2008) 267-272.
867. K. Leistner, H. Schloerb, J. Thomas, L. Schultz, S. Faehler, *Remanence enhancement in nanoscaled electrodeposited FePt films*, Appl. Phys. Lett. **92** (2008) Art. No. 052502.
868. S. Roth, U. Gaitzsch, M. Poetschke, L. Schultz, *Magneto-mechanical behaviour of textured Polycrystals of NiMnGa ferromagnetic Shape Memory Alloys*, Ferromagnetic Shape Memory Alloys **52** (2008) 29-34.
869. G. Fuchs, S.L. Drechsler, N. Kozlova, G. Behr, A. Koehler, J. Werner, K. Nenkov, R. Klingeler, J. Hamann-Borrero, C. Hess, A. Kondrat, M. Grobosch, A. Narduzzo, M. Knupfer, J. Freudenberger, B. Buechner, L. Schultz, *High-Field Pauli-Limiting Behavior and Strongly Enhanced Upper Critical Magnetic Fields near the Transition Temperature of an Arsenic-Deficient La_{0.9}F_{0.1}FeAsI-delta Superconductor*, Phys. Rev. Letters **101** (2008) Art. No. 237003.

870. U. Queitsch, E. Mohn, A. Blueher, B. Katzschnier, M. Mertig, L. Schultz, B. Rellinghaus, *Regular Arrangement of Gas Phase Prepared In-Flight Annealed FePt Nanoparticles on S Layers*, IEEE Trans. Magn. **44** (2008) 2756-2759.
871. A. Gebert, B. Khorkounov, L. Schultz, *Effect of Chemical Pre-Treatments on the Stability of Melt-Spun Mg₅₀Ni₃₀Y₂₀ in Extreme Alkaline Electrolyte*, Rev. Advanced Materials Science **18** (2008) 640-644.
872. R. Huehne, K. Gueth, M. Kidszun, R. Kaltofen, L. Schultz, B. Holzapfel, *Metallic seed layers for ion-beam assisted pulsed laser deposition of highly textured transition metal nitride films*, J. Phys. D-Appl. Phys. **41** (2008) Art. No. 245404.
873. E. Backen, S. Haindl, T. Niemeier, R. Huehne, T. Freudenberg, J. Werner, G. Behr, L. Schultz, B. Holzapfel, *Growth and anisotropy of La(O, F)FeAs thin films deposited by pulsed laser deposition*, Superconductor Science & Technology **21** (2008) Art. No. 122001.
874. M. Seifert, M. V. Neu, L. Schultz, *Epitaxial SmCo₅ thin films with perpendicular anisotropy*, Appl. Phys. Lett. **94** (2009) Art. No. 022501.
875. W.-M. Wang, W.X. Zhang, A. Gebert, S. Roth, C. Mickel, L. Schultz, *Microstructure and Magnetic Properties in Fe₆₁Co_{9-x}Zr₈Mo₅W_(x)B-17 (0 a parts per thousand currency sign x a parts per thousand currency sign 3) Glasses and Glass-Matrix Composites*, Metallurgical and Materials Trans. A-Phys. Met. and Mat. Sci. **40A** (2009) 511-521.
876. C. Bran, A.B. Butenko, N.S. Kiselev, U. Wolff, L. Schultz, O. Hellwig, U.K. Roessler, A.N. Bogdanov, V. Neu, *Evolution of stripe and bubble domains in antiferromagnetically coupled [(Co/Pt)(8)/Co/Ru](18) multilayers*, Phys. Rev. B **79** (2009) Art. No. 024430.
877. U. Gaitzsch, M. Poetschke, S. Roth, B. Rellinghaus, L. Schultz, *A 1% magnetostrain in polycrystalline 5M Ni-Mn-Ga*, Acta Materialia **57** (2009) 365-370.
878. N. Martin, J. McCord, A. Gerber, T. Strache, T. Gemming, I. Moench, N. Farag, R. Schaefer, J. Fassbender, E. Quandt, L. Schultz, *Local stress engineering of magnetic anisotropy in soft magnetic thin films*, Appl. Phys. Lett. **94** (2009) Art. No. 062506.
879. J.A. Koza, S. Muehlenhoff, M. Uhlemann, K. Eckert, A. Gebert, L. Schultz, *Desorption of hydrogen from an electrode surface under influence of an external magnetic field - In-situ microscopic observations*, Electrochim. Comm. **11** (2009) 425-429.
880. J. Brandenburg, R. Huehne, L. Schultz, V. Neu, *Domain structure of epitaxial Co films with perpendicular anisotropy*, Phys. Rev. B **79** (2009) Art. No. 054429.
881. R. Sueptitz, J.A. Koza, M. Uhlemann, A. Gebert, L. Schultz, *Magnetic field effect on the anodic behaviour of a ferromagnetic electrode in acidic solutions*, Electrochim. Acta **54** (2009) 2229-2233.
882. U. Gaitzsch, R. Techapiesancharoenkij, M. Poetschke, S. Roth, L. Schultz, *Acoustic Assisted Magnetic Field Induced Strain in 5M Ni-Mn-Ga Polycrystals*, IEEE Trans. Mag. **45** (2009) 1919-1921.
883. M.S. Khatri, H. Schloerb, S. Faehler, L. Schultz, B. Nandan, M. Boehme, R. Krenek, M. Stamm, *Electrodeposition of Co-Pt continuous films and nanowires within diblock copolymer template*, Electrochim. Acta **54** (2009) 2536-2539.
884. A. Herklotz, A.D. Rata, L. Schultz, K. Doerr, *Reversible strain effect on the magnetization of LaCoO₃ films*, Phys. Rev. B **79** (2009) Art. No. 092409.
885. T. G. Woodcock, K. Khlopkov, A. Walther, N.M. Dempsey, D. Givord, L. Schultz, O. Gutfleisch, *Interaction domains in high-performance NdFeB thick films*, Scripta Materialia **60** (2009) 826-829.
886. J.-W. Kim, K. Nenkov, L. Schultz, K. Doerr, *Magnetic properties of thick multiferroic hexagonal HoMnO₃ films*, J. Mag. Mag. Mat. **321** (2009) 1727-1730.
887. T.T. Jaervi, D. Pohl, K. Albe, B. Rellinghaus, L. Schultz, J. Fassbender, A. Kuronen, K. Nordlund, *From multiply twinned to fcc nanoparticles via irradiation-induced transient amorphization*, EPL, **85** (2009) Art. No. 26001.
- 888 O. Heczko, M. Thomas, R. Niemann, L. Schultz, S. Fähler, *Magnetically induced martensite transition in freestanding epitaxial Ni-Mn-Ga films*, Appl. Phys. Lett. **94**(15) 152513 (2009).
- 889 *The effect of magnetic field on the electrodeposition of CoFe alloys*
J.A. Koza, M. Uhlemann, C. Mickel, A. Gebert, L. Schultz
J. Magn. Magn. Mater. **321**(14) 2265-2268 (2009).
- 890 *Passivity of polycrystalline NiMnGa alloys for magnetic shape memory applications*
A. Gebert, S. Roth, S. Oswald, L. Schultz
Corros. Sci. **51**(5) 1163-1171 (2009).

- 891 *Carbon nanotubes terminated with hard magnetic FePt nanomagnets*
 F. Schäffel, C. Täschner, M.H. Rümmeli, V. Neu, U. Wolff, U. Queitsch, D. Pohl, R. Kaltoven, A. Leonhardt, B. Rellinghaus, B. Büchner, L. Schultz
Appl. Phys. Lett. **94**(19) 193107 (2009).
- 892 *In situ studies of the martensitic transformation in epitaxial Ni-Mn-Ga films*
 J. Buschbeck, R. Niemann, O. Heczko, M. Thomas, L. Schultz, S. Fähler
Acta Mater. **57**(8) 2516-2526 (2009).
- 893 *Passivation behaviour of structurally relaxed Zr₄₈Cu₃₆Ag₈Al₈ metallic glass*
 J. Jayaraj, A. Gebert, L. Schultz
J. Alloys Compd. **479**(1-2) 257-261 (2009).
- 894 *Toward Dense Biotemplated Magnetic Nanoparticle Arrays: Probing the Particle-Template Interaction*
 U. Queitsch, C. Hamann, F. Schäffel, B. Rellinghaus, L. Schultz, A. Blüher, M. Mertig
J. Phys. Chem. C **113**(24) 10471-10476 (2009).
- 895 *Stray-Field-Induced Actuation of Free-Standing Magnetic Shape-Memory Films*
 M. Thomas, O. Heczko, J. Buschbeck, Y.W. Lai, J. McCord, S. Kaufmann, L. Schultz, S. Fähler
Adv. Mater. **21**(36) 3708-3711 (2009).
- 896 *Structural and pinning properties of Y₂Ba₄CuMO_y (M = Nb, Zr)/YBa₂Cu₃O_{7-δ} quasi-multilayers fabricated by off-axis pulsed laser deposition*
 E. Reich, T. Thersleff, R. Hühne, K. Iida, L. Schultz, B. Holzapfel
Supercond. Sci. Technol. **22**(10) 105004 (2009).
- 897 *Recycling process for 123-type bulk superconductors*
 K. Iida, K. Löwe, L. Kühn, K. Nenkov, G. Fuchs, G. Krabbes, G. Behr, B. Holzapfel, L. Schultz
Physica C **469**(15-20) 1153-1156 (2009).
- 898 *THE EFFECT OF MAGNETIC FIELDS ON THE ELECTRODEPOSITION OF CoFe ALLOYS*
 J.A. Koza, M. Uhlemann, A. Gebert, C. Mickel, S. Baunack, L. Schultz
Magnetohydrodynamics **45**(2) 259-266 (2009).
- 899 *Tuning functional properties by plastic deformation*
 A.R. Kwon, V. Neu, V. Matias, J. Hänisch, R. Hühne, J. Freudenberger, B. Holzapfel, L. Schultz, S. Fähler
New J. Phys. **11** 083013 (2009).
- 900 *Phase diagram features and solidification behaviour of CoCu₂O₃ at elevated oxygen pressure*
 N. Wizent, L. Schramm, G. Behr, W. Löser, W. Gruner, A. Voss, B. Büchner, L. Schultz
J. Solid State Chem. **182**(8) 2036-2040 (2009).
- 901 *Nanodomains in multiferroic hexagonal RMnO₃ films (R = Y,Dy,Ho,Er)*
 T. Kordel, C. Wehrenfennig, D. Meier, T. Lottermoser, M. Fiebig, I. Gelard, C. Dubourdieu, J.-W. Kim, L. Schultz, K. Dörr
Phys. Rev. B **80**(4) 045409 (2009).
- 902 *Simulations and Tests of Superconducting Linear Bearings for a MAGLEV Prototype*
 D.H. Nogueira Dias, E.S. Motta, G.G. Sotelo, R. de Andrade Jr., R.M. Stephan, L. Kühn, O. de Haas, L. Schultz
IEEE Trans. Appl. Supercond. **19**(3, Part 2) 2120-2123 (2009).
- 903 *Conflicting Effects of SiC Doping on the Properties of Mechanically Alloyed Bulk MgB₂*
 M. Herrmann, W. Hässler, M. Schubert, B. Holzapfel, L. Schultz
IEEE Trans. Appl. Supercond. **19**(3, Part 3) 2726-2729 (2009).
- 904 *Preparation of Conductive Buffer Architectures Based on IBAD-TiN*
 K. Güth, R. Hühne, V. Matias, J. Rowley, T. Thersleff, L. Schultz, B. Holzapfel
IEEE Trans. Appl. Supercond. **19**(3, Part 3) 3447-3450 (2009).
- 905 *Orbital and spin effects for the upper critical field in As-deficient disordered Fe pnictide superconductors*
 G. Fuchs, S.-L. Drechsler, N. Kozlova, M. Bartkowiak, J.E. Hamann-Borrero, G. Behr, K. Nenkov, H.-H. Klauss, H. Maeter, A. Amato, H. Luetkens, A. Kwadrin, R. Khasanov, J. Freudenberger, A. Köhler, M.

- Knupfer, E. Arushanov, H. Rosner, B. Büchner, L. Schultz
New J. Phys. **11** 075007 (2009).
- 906 *Relevance of pinning, nucleation, and interaction in nanograined epitaxial hard magnetic SmCo₅ films*
A. Singh, V. Neu, S. Fähler, K. Nenkov, L. Schultz, B. Holzapfel
Phys. Rev. B **79**(21) 214401 (2009).
- 907 *Analysis of Variant Orientation Before and After Compression in Polycrystalline Ni₅₀Mn₂₉Ga₂₁ MSMA*
C. Hürrich, H. Wendrock, M. Pötschke, U. Gaitzsch, S. Roth, B. Rellinghaus, L. Schultz
J. Mater. Eng. Perform. **18**(5-6) 554-557 (2009).
- 908 *Hydrogenation of Zr-Cu-Al-Ni-Pd metallic glasses by electrochemical means*
N. Ismail, A.A. El-Meligi, M. Uhlemann, A. Gebert, J. Eckert, L. Schultz
J. Alloys Compd. **480**(2) 321-324 (2009).
- 909 *Formation of nanostructured LaMg₂Ni by rapid quenching and intensive milling and its hydrogen reactivity*
A. Teresiak, M. Uhlemann, A. Gebert, J. Thomas, J. Eckert, L. Schultz,
J. Alloys Compd. **481**(1-2) 144-151 (2009).
- 910 *Corrosion behavior of the bulk glassy (Fe_{44.3}Cr₅Co₅Mo_{12.8}Mn_{11.2}C_{15.8}B_{5.9})_{98.5}Y_{1.5} alloy*
F. Gostin, U. Siegel, C. Mickel, S. Baunack, A. Gebert, L. Schultz
J. Mater. Res. **24**(4) 1471-1479 (2009).
- 911 *Epitaxial c-axis oriented LuNi₂B₂C thin films on MgO(110)*
T. Niemeier, R. Huehne, A. Koehler, G. Behr, L. Schultz, B. Holzapfel
25TH INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS (LT25), PART 5 -
SUPERCONDUCTIVITY Book Series: *Journal of Physics Conference Series* **150**(5) 052185 (2009).
- 912 *The effect of post annealing on structure, microstructure and magnetic properties of thin Ni-Mn-Ga films*
A. Backen, R. Niemann, S. Kaufmann, J. Buschbeck, L. Schultz, S. Fähler
ESOMAT 2009 - 8TH EUROPEAN SYMPOSIUM ON MARTENSITIC TRANSFORMATIONS (2009).
- 913 *Ion-beam assisted pulsed laser deposition of textured transition-metal nitride films*
R. Hühne, M. Kidszun, K. Güth, F. Thoss, B. Rellinghaus, L. Schultz, B. Holzapfel
ARTIFICIALLY INDUCED GRAIN ALIGNMENT IN THIN FILMS Book Series: Materials Research Society Symposium Proceedings **1150** 59-64 (2009).
- 914 *Development of conducting buffer architectures using cube textured IBAD-TiN layers*
R. Hühne, K. Güth, M. Kidszun, R. Kaltofen, V. Matias, J. Rowley, L. Schultz, B. Holzapfel
ARTIFICIALLY INDUCED GRAIN ALIGNMENT IN THIN FILMS Book Series: Materials Research Society Symposium Proceedings **1150** 85-90 (2009).
- 915 *Shedding Light on the Crystallographic Etching of Multi-Layer Graphene at the Atomic Scale*
F. Schaeffel, J.H. Warner, A. Bachmatiuk, B. Rellinghaus, B. Buechner, L. Schultz, M.H. Ruemmeli
Nano Res. **2**(9) 695-705 (2009).
- 916 *Grain growth in Ni-Mn-Ga alloys*
F. Thoss, M. Poetschke, U. Gaitzsch, J. Freudenberger, W. Anwand, S. Roth, B. Rellinghaus, L. Schultz
J. Alloys Compd. **488**(1) 420-424 (2009).
- 917 *On the catalytic hydrogenation of graphite for graphene nanoribbon fabrication*
F. Schaeffel, J.H. Warner, A. Bachmatiuk, B. Rellinghaus, B. Buechner, L. Schultz, M.H. Ruemmeli
Phys. Status Solidi B **246**(11-12) 2540-2544 (2009).
- 918 *Strong T_c dependence for strained epitaxial Ba(Fe_{1-x}Co_x)₂As₂ thin films*
K. Iida, J. Hänsch, R. Hühne, F. Kurth, M. Kidszun, S. Haindl, J. Werner, L. Schultz, B. Holzapfel
Appl. Phys. Lett. **95**(19) 192501 (2009).
- 919 *Effects of well-defined magnetic field gradients on the electrodeposition of copper and bismuth*
K. Tschulik, J.A. Koza, M. Uhlemann, A. Gebert, L. Schultz
Electrochem. Commun. **11**(11) 2241-2244 (2009).
- 920 *Full Tunability of Strain along the fcc-bcc Bain Path in Epitaxial Films and Consequences for Magnetic Properties*

- J. Buschbeck, I. Opahle, M. Richter, U.K. Rößler, P. Klaer, M. Kallmayer, H.J. Elmers, G. Jakob, L. Schultz, S. Fähler
Phys. Rev. Lett. **103**(21) 216101 (2009).
- 921 *Influence of the dopant during the one step mechano-chemical synthesis of sodium alanate - art. no. 012022*
 C.Rongeat, C. Geipel, I. Llama-Jansa, L. Schultz, O. Gutfleisch
 13TH INTERNATIONAL CONFERENCE ON RAPIDLY QUENCHED AND METASTABLE MATERIALS Book Series Journal of Physics Conference Series **144** 12022 (2009).
- 922 *Colossal elastoresistance and strain-dependent magnetization of phase-separated $(Pr_{1-y}La_y)_{0.7}Ca_{0.3}MnO_3$ thin films*
 M.C. Dekker, A.D. Rata, K. Boldyreva, S. Oswald, L. Schultz, K. Dörr,
Phys. Rev. B **80**(14) 144402 (2009).
- 923 *Mechanochemical synthesis and XPS analysis of sodium alanate with different additives*
 C. Rongeat, I.L. Jansa, S. Oswald, L. Schultz, O. Gutfleisch
Acta Mater. **57**(18) 5563-5570 (2009).
- 924 *A model system for strain effects: epitaxial magnetic films on a piezoelectric substrate*
 K. Dörr, O. Bilani-Zeneli, A. Herklotz, A.D. Rata, K. Boldyreva, J.-W. Kim, M.C. Dekker, K. Nenkov, L. Schultz, M. Reibold
Eur. Phys. J. B **71**(3) 361-366 (2009).
- 925 *Magnetization processes and spin reorientation in epitaxial $NdCo_{5\pm\epsilon}$ thin films*
 M. Seifert, L. Schultz, V. Neu
J. Appl. Phys. **106**(7) 073915 (2009).
- 926 *Nano-porous surface states of Ti-Y-Al-Co phase separated metallic glass*
 J. Jayaraj, J.M. Park, P.F. Gostin, E. Fleury, A. Gebert, L. Schultz
Intermetallics **17**(12) 1120-1123 (2009).
- 927 *Application of textured highly alloyed Ni-W tapes for preparing coated conductor architectures*
 R. Hühne, J. Eickemeyer, V.S. Sarma, A. Güth, T. Thersleff, J. Freudenberger, O. de Haas, M. Weigand, J.H. Durrell, L. Schultz, B. Holzapfel
Supercond. Sci. Technol. **23**(3) 034015 (2010).
- 928 *Paramagnetic substrates for thin film superconductors: Ni-W and Ni-W-Cr*
 U. Gaitzsch, J. Eickemeyer, C. Rodig, J. Freudenberger, B. Holzapfel, L. Schultz
Scr. Mater. **62**(7) 512-515 (2010).
- 929 *High Upper Critical Fields and Evidence of Weak-Link Behavior in Superconducting $LaFeAsO_{1-x}F_x$ Thin Films*
 S. Haindl, M. Kidszun, A. Kauffmann, K. Nenkov, N. Kozlova, J. Freudenberger, T. Thersleff, J. Hänsch, J. Werner, E. Reich, L. Schultz B. Holzapfel
Phys. Rev. Lett. **104**(7) 077001 (2010).
- 930 *Investigating the Outskirts of Fe and Co Catalyst Particles in Alumina-Supported Catalytic CVD Carbon Nanotube Growth*
 M. H. Ruemmel, F. Schaeffel, A. Bachmatiuk, D. Adebimpe, G. Trotter, F. Boerrnert, A. Scott, E. Coric, M. Sparing, B. Rellinghaus, P.G. McCormick, G. Cuniberti, M. Knupfer, L. Schultz, B. Buechner
ACS Nano **4**(2) 1146-1152 (2010).
- 931 *Texture formation in epitaxial hard magnetic Sm_2Co_7 thin films*
 R. Tamm, K.S. Rao, S. Fähler, V. Neu, A. Singh, C.-G. Oertel, L. Schultz, B. Holzapfel, W. Skrotzki
Phys. Status Solidi A **207**(1) 106-116 (2010).
- 932 *Competing magnetic interactions in exchange-bias-modulated films*
 C. Hamann, J. McCord, L. Schultz, B.P. Toperverg, K. Theis-Broehl, M. Wolff, R. Kaltofen, I. Mönch
Phys. Rev. B **81**(2) 024420 (2010).
- 933 *Microstructural inhomogeneities in Cu-Ag-Zr alloys due to heavy plastic deformation*
 J. Lyubimova, J. Freudenberger, C. Mickel, T. Thersleff, A. Kauffmann, L. Schultz
Mater. Sci. Eng., A **527**(3) 606-613 (2010).

- 934 *Electrococrystallisation of CoFe alloys under the influence of external homogeneous magnetic fields - Properties of deposited thin films*
 J.A. Koza, F. Karnbach, M. Uhlemann, J. McCord, C. Mickel, A. Gebert, S. Baunack, L. Schultz
Electrochim. Acta **55**(3) 819-831 (2010).
- 935 *Epitaxial LaFeAsO_{1-x}F_x thin films grown by pulsed laser deposition*
 M. Kidszun, S. Haindl, E. Reich, J. Hänisch, K. Iida, L. Schultz, B. Holzapfel
Supercond. Sci. Technol. **23**(2) 022002 (2010).
- 936 *Ion-beam-assisted deposition of textured NbN thin films*
 M. Kidszun, R. Hühne, B. Holzapfel, L. Schultz
Supercond. Sci. Technol. **23**(2) 025010 (2010).
- 937 *Novel ex situ MgB₂ barrier for in situ monofilamentary MgB₂ conductors with Fe and Cu sheath material*
 A. Kario, A. Morawski, W. Häßler, M. Herrmann, C. Rodig, M. Schubert, K. Nenkov, B. Holzapfel, L. Schultz, B.A. Glowacki, S.C. Hopkins
Supercond. Sci. Technol. **23**(2) 025018 (2010).
- 938 *Volume magnetic domain mirroring in magnetic shape memory crystals*
 Y.-W. Lai, R. Schäfer, L. Schultz, J. McCord
Appl. Phys. Lett. **96**(2) 022507 (2010).
- 939 *Application of textured IBAD-TiN buffer layers in coated conductor architectures*
 R. Hühne, K. Güth, R. Gärtner, M. Kidszun, F. Thoss, B. Rellinghaus, L. Schultz, B. Holzapfel
Supercond. Sci. Technol. **23**(1) 014010 (2010).
- 940 *Comparison of the corrosion of bulk amorphous steel with conventional steel*
 P.F. Gostin, A. Gebert, L. Schultz
Corros. Sci. **52**(1) 273-281 (2010).
- 941 *Selected invited contributions from the International Conference on Magnetism (Karlsruhe, Germany, 26-31 July 2009) PREFACE*
 G. Goll, H. v. Loehneysen, A. Loidl, T. Pruschke, M. Richter, L. Schultz, C. Suergers, J. Wosnitza,
J. Phys. Condens. Matter **22**(16) 160301 (2010).
- 942 *Isothermal martensitic transformation in polycrystalline Ni₅₀Mn₂₉Ga₂₁*
 C. Hürrich, S. Roth, M. Pötschke, B. Rellinghaus, L. Schultz
J. Alloys Compd. **494**(1-2) 40-43 (2010).
- 943 *Studies on recrystallization of single-phase copper alloys by resistance measurements*
 J. Freudenberger, A. Kauffmann, H. Klauss, T. Marr, K. Nenkov, V.S. Sarma, L. Schultz
Acta Mater. **58**(7) 2324-2329 (2010).
- 944 *Towards smooth and pure iron nanowires grown by electrodeposition in self-organized alumina membranes*
 V. Haehnel, S. Fähler, P. Schaaf, M. Miglierini, C. Mickel, L. Schultz, H. Schlörb
Acta Mater. **58**(7) 2330-2337 (2010).
- 945 *Scaling behavior of the critical current in clean epitaxial Ba(Fe_{1-x}Co_x)₂As₂ thin films*
 K. Iida, J. Hänisch, T. Thersleff, F. Kurth, M. Kidszun, S. Haindl, R. Hühne, L. Schultz, B. Holzapfel
Phys. Rev. B **81**(10) 100507 (2010).
- 946 *Direct observation of superconducting vortex clusters pinned by a periodic array of magnetic dots in ferromagnetic/superconducting hybrid structures*
 T. Shapoval, V. Metlushko, M. Wolf, B. Holzapfel, V. Neu, L. Schultz, L.
Phys. Rev. B **81**(9) 092505 (2010).
- 947 *Effect of additives on the synthesis and reversibility of Ca(BH₄)₂*
 C. Rongeat, V. D'Anna, H. Hagemann, A. Borgschulte, A. Zuettel, L. Schultz, O. Gutfleisch
J. Alloys Compd. **493**(1-2) 281-287 (2010).
- 948 *Effect of shot-peening on the corrosion resistance of a Zr-based bulk metallic glass*
 A. Gebert, A. Concustell, A.L. Greer, L. Schultz, J. Eckert
Scr. Mater. **62**(9) 635-638 (2010).

- 949 *Superparamagnetic and superspin glass behaviors in the martensitic state of $Ni_{43.5}Co_{6.5}Mn_{39}Sn_{11}$ magnetic shape memory alloy*
 D.Y. Cong, S. Roth, J. Liu, Q. Luo, M. Pötschke, C. Hürrich, L. Schultz
Appl. Phys. Lett. **96**(11) 112504 (2010).
- 950 *Dynamic coercivity and thermal stability of epitaxial exchange spring trilayers*
 V. Neu, K. Häfner, L. Schultz
J. Magn. Magn. Mater. **322**(9-12) 1613-1616 (2010).
- 951 *Upper Critical Field Measurements up to 60 T in Arsenic-Deficient $LaO_{0.9}F_{0.1}FeAs_{1-\square}$: Pauli Limiting Behavior at High Fields vs. Improved Superconductivity at Low Fields*
 G. Fuchs, S.-L. Drechsler, N. Kozlova, J. Freudenberger, M. Bartkowiak, J. Wosnitza, G. Behr, K. Nenkov, B. Buechner, L. Schultz
J. Low Temp. Phys. **159**(1-2) 164-167 (2010).
- 952 *Quantum Transport and Cyclotron Resonance Study of Ge/SiGe Quantum Wells in High Magnetic Fields*
 N. Miura, N.V. Kozlova, K. Doerr, J. Freudenberger, L. Schultz, O. Drachenko, K. Sawano, Y. Shiraki
J. Low Temp. Phys. **159**(1-2) 222-225 (2010).
- 953 *Metamagnetic domains in antiferromagnetically coupled multilayers with perpendicular anisotropy*
 N.S. Kiselev, C. Bran, U. Wolff, L. Schultz, A.N. Bogdanov, O. Hellwig, V. Neu, U.K. Roessler
Phys. Rev. B **81**(5) 054409 (2010).
- 954 *Direct observation of the superconducting energy gap in the optical conductivity of the iron pnictide superconductor $Ba(Fe_{0.9}Co_{0.1})_2As_2$*
 B. Gorshunov, D. Wu, A.A. Voronkov, P. Kallina, K. Iida, S. Haindl, F. Kurth, L. Schultz, B. Holzapfel, M. Dressel
Phys. Rev. B **81**(6) 060509 (2010).
- 955 *Corrosion, passivation and breakdown of passivity of neodymium*
 R. Stüttitz, M. Uhlemann, A. Gebert, L. Schultz
Corros. Sci. **52**(3) 886-891 (2010).
- 956 *EUCAS '09: The 9th European Conference on Applied Superconductivity (Dresden, Germany, 13-17 September 2009) PREFACE*
 B. Holzapfel, L. Schultz, H. Schröder
Supercond. Sci. Technol. **23**(3) 030301 (2010).
- 957 *Textured Ni-9.0 at.% W substrate tapes for YBCO-coated conductors*
 J. Eickemeyer, R. Hühne, A. Güth, C. Rodig, U. Gaitzsch, J. Freudenberger, L. Schultz, B. Holzapfel
Supercond. Sci. Technol. **23**(8) 085012, (2010).
- 958 *Magnetization reversal in textured NdFeB-Fe composites observed by domain imaging*
 J. Thielsch, D. Hinz, L. Schultz, O. Gutfleisch
J. Magn. Magn. Mater. **322**(20) 3208-3213, (2010).
- 959 *Phase diagram and composition optimization for magnetic shape memory effect in Ni-Co-Mn-Sn alloys*
 D.Y. Cong, S. Roth, M. Pötschke, C. Hürrich, L. Schultz
Appl. Phys. Lett. **97**(2) 021908, (2010).
- 960 *Coherent interfacial bonding on the FeAs tetrahedron in $Fe/Ba(Fe_{1-x}Co_x)_2As_2$ bilayers*
 T. Thersleff, K. Iida, S. Haindl, M. Kidszun, D. Pohl, A. Hartmann, F. Kurth, J. Hänisch, R. Hühne, B. Rellinghaus, L. Schultz, B. Holzapfel
Appl. Phys. Lett. **97**(2) 022506, (2010).
- 961 *Artificial Single Variant Martensite in Freestanding $Fe_{70}Pd_{30}$ Films Obtained by Coherent Epitaxial Growth*
 C. Bechtold, J. Buschbeck, A. Lotnyk, B. Erkatal, S. Hamann, C. Zamponi, L. Schultz, A. Ludwig, L. Kienle, S. Fähler, E. Quandt
Adv. Mater. **22**(24) 2668-2671, (2010).
- 962 *Constraint-dependent twin variant distribution in Ni_2MnGa single crystal, polycrystals and thin film: An EBSD study*

- N. Scheerbaum, Y.W. Lai, T. Leisegang, M. Thomas, M. J. Liu, K. Khlopkov, J. McCord, S. Fähler, R. Träger, D.C. Meyer, L. Schultz, O. Gutfleisch
Acta Mater. **58**(14) 4629-4638, (2010).
- 963 *Magnetically resettable 0.16% free strain in polycrystalline Ni-Mn-Ga plates*
M. Pötschke, S. Weiss, U. Gaitzsch, D.Y. Cong, C. Hürrich, S. Roth, L. Schultz
Scr. Mater. **63**(4) 383-386, (2010).
- 964 *Impact of magnetic field gradients on the free corrosion of iron*
R. Süptitz, K. Tschulik, M. Uhlemann, A. Gebert, L. Schultz
Electrochim. Acta **55**(18) 5200-5203, (2010).
- 965 *Correlation of phase transformations and magnetic properties in annealed epitaxial Fe-Pd magnetic shape memory alloy films*
J. Buschbeck, S. Hamann, A. Ludwig, B. Holzapfel, L. Schultz, S. Fähler
J. Appl. Phys. **107**(11) 113919 (2010).
- 966 *Modeling of Intergrain Exchange Coupling for Quantitative Predictions of □m Plots*
V. Neu, R. Biele, A. Singh, L. Schultz
IEEE Trans. Magn. **46**(6) 2331-2333 (2010).
- 967 *Investigation of the c-axis and basal plane anisotropy in epitaxial Nd₂Co₅ thin films*
M. Seifert, L. Schultz, V. Neu
J. Appl. Phys. **107**(9) 09A711 (2010).
- 968 *Comparing properties of substrate-constrained and freestanding epitaxial Ni-Mn-Ga films*
A. Backen, S.R. Yeduru, M. Kohl, S. Baunack, A. Diestel, B. Holzapfel, L. Schultz, S. Fähler
Acta Mater. **58**(9) 3415-3421 (2010).
- 969 *The magneto-optical gradient effect in an exchange-biased thin film: experimental evidence for classical diffraction theory*
R. Schaefer, C. Hamann, J. McCord, L. Schultz, V. Kambersky
New J. Phys. **12** 053006 (2010).
- 970 *Effect of surface finishing of a Zr-based bulk metallic glass on its corrosion behaviour*
A. Gebert, P.F. Gostin, L. Schultz
Corros. Sci. **52**(5) 1711-1720 (2010).
- 971 *Adaptive Modulations of Martensites*
S. Kaufmann, U.K. Roessler, O. Heczko, M. Wuttig, J. Buschbeck, L. Schultz, S. Faehler,
Phys Rev. Lett. **104**(14) 145702 (2010).
- 972 *Properties of MgB₂ Tapes Prepared by Using MA In-Ex Situ Powder*
A. Kario, W. Häßler, M. Herrmann, C. Rodig, J. Scheiter, B. Holzapfel, L. Schultz, S. Schlachter, B. Ringsdorf, W. Goldacker, A. Morawski
IEEE Trans. Appl. Supercond. **20**(3) 1521, (2010).
- 973 *The temperature dependent anisotropy constants of epitaxially grown PrCo_{5+x}*
A.K. Patra, M. Eisterer, R. Biele, S. Fähler, L. Schultz, V. Neu
J. Appl. Phys. **108**(7) 073912, (2010).
- 974 *Enhanced pinning of superconducting vortices at circular magnetic dots in the magnetic-vortex state*
T. Shapoval, V. Metlushko, M. Wolf, V. Neu, B. Holzapfel, L. Schultz
Phys. C Supercond. **470**(19) 867-870, (2010).
- 975 *Effect of addition of planetary milled Gd-211 on the microstructures and superconducting properties of air-processed single grain Gd-Ba-Cu-O/Ag bulk superconductors*
K. Iida, K. Nenkov, G. Fuchs, G. Krabbes, B. Holzapfel, B. Büchner, L. Schultz
Phys. C Supercond. **470**(20) 1153-1157, (2010).
- 976 *Novel Design of La(Fe,Si)₁₃ Alloys Towards High Magnetic Refrigeration Performance*
J. Lyubina, R. Schäfer, N. Martin, L. Schultz O. Gutfleisch
Adv. Mater. **22**(33) 3735-3739, (2010).

- 977 *Irreversibility field up to 42 T of $GdBa_2Cu_3O_{7-\square}$ thin films grown by PLD and its dependence on deposition parameters*
 S. Rosenzweig, J. Hänisch, K. Iida, A. Kauffmann, C. Mickel, T. Thersleff, J. Freudenberger, R. Hühne, B. Holzapfel, L. Schultz
Supercond. Sci. Technol. **23**(10) 105017, (2010).
- 978 *Textured growth and microstructure of pulsed laser deposited Nb/Cr/ $SmCo_5$ hybrid structures*
 R. Schaarschuch, M. Reibold, S. Haindl, V. Neu, J. Thomas, T. Gemming, C.-G. Oertel, B. Holzapfel, L. Schultz, W. Skrotzki
Phys. Status Solidi A **207**(8) 1785-1791, (2010).
- 979 *Electrocrystallisation of metallic films under the influence of an external homogeneous magnetic field-Early stages of the layer growth*
 J.A. Koza, I. Mogi, K. Tschulik, M. Uhlemann, C. Mickel, A. Gebert, L. Schultz
Electrochim. Acta **55**(22) 6533-6541, (2010).
- 980 *Fe-Pd thin films as a model system for self-organized exchange coupled nanomagnets*
 T. Schied, A. Lotnyk, C. Zamponi, L. Kienle, J. Buschbeck, M. Weisheit, B. Holzapfel, L. Schultz, S. Fähler
J. Appl. Phys. **108**(3) 033902, (2010).
- 981 *$Al_3Li_4(BH_4)_{13}$: A Complex Double-Cation Borohydride with a New Structure*
 I. Lindemann, R.D. Ferrer, L. Dunsch, Y. Filinchuk, R. Cerny, H. Hagemann, V. D'Anna, L.M.L. Daku, L. Schultz, O. Gutfleisch
Chem. Eur. J. **16**(29) 8707-8712, (2010).
- 982 *Magnetic domain compensation effect on the magnetodynamic response of ferromagnetic elements*
 C. Patschureck, R. Kaltofen, I. Moench, R. Schaefer, L. Schultz, J. McCord
Appl. Phys. Lett. **97**(5) 052507, (2010).
- 983 *Electrodeposition of $Fe_{70}Pd_{30}$ nanowires from a complexed ammonium-sulfosalicylic electrolyte with high stability*
 V. Haehnel, S. Fähler, L. Schultz, H. Schlörb
Electrochim. Commun. **12**(8) 1116-1119, (2010).
- 984 *Corrosion and pitting behaviour of ultrafine eutectic Ti-Fe-Sn alloys*
 R. Siptitz, J. Das, S. Baunack, A. Gebert, L. Schultz, J. Eckert
J. Alloys Comp. **503**(1) 19-24, (2010).
- 985 *Lattice structure and magnetization of $LaCoO_3$ thin films*
 A. D. Rata, A. Herklotz, L. Schultz, K. Dörr
Eur. Phys. J. B **76**(2) 215-219, (2010).
- 986 *Fabrication of superconducting oxypnictide thin films*
 M. Kidszun, S. Haindl, T. Thersleff, J. Werner, M. Langer, J. Hänisch, K. Iida, E. Reich, L. Schultz, B. Holzapfel
EPL **90**(5) 57005, (2010).
- 987 *Mechanical behaviour of heavily deformed CuAgZr conductor materials*
 J. Freudenberger, J. Lyubimova, A. Gaganov, H. Klauss, L. Schultz
 15TH INTERNATIONAL CONFERENCE ON THE STRENGTH OF MATERIALS (ICSMA-15) Book Series: *Journal of Physics Conference Series* **240** (2010).
- 988 *Highly anisotropic energy gap in superconducting $Ba(Fe_{0.9}Co_{0.1})_2As_2$ from optical conductivity measurements*
 T. Fischer, A.V. Pronin, J. Wosnitza, K. Iida, F. Kurth, S. Haindl, L. Schultz, B. Holzapfel, E. Schachinger
Phys. Rev. B **82**(22) 224507 (2010).
- 989 *Evidence for Pauli-limiting behaviour at high fields and enhanced upper critical fields near T_c in several disordered FeAs based superconductors*
 G. Fuchs, S.L. Drechsler, N. Kozlova, M. Bartkowiak, G. Behr, K. Nenkov, H.-H. Klauss, J. Freudenberger, M. Knupfer, F. Hammerath, G. Lang, H.-J. Grafe, B. Büchner, L. Schultz
Physica C **470** S288, (2010).

- 990 *Monopolelike probes for quantitative magnetic force microscopy: Calibration and application*
 S. Vock, F. Wolny, T. Mühl, R. Kaltoven, L. Schultz, B. Büchner, C. Hassel, J. Lindner, V. Neu
Appl. Phys. Lett. **97**(25) 252505, (2010).
- 991 *Damascene Light-Weight Metals*
 T. Marr, J. Freudenberger, A. Kauffmann, J. Scharnweber, C.-G. Oertel, W. Skrotzki, U. Siegel, U. Kuehn,
 J. Eckert, U. Martin, L. Schultz
Adv. Eng. Mater. **12**(12) 1191, (2010).
- 992 *Studies on the patterning effect of copper deposits in magnetic gradient fields*
 K. Tschulik, R. Süptitz, J. Koza, M. Uhlemann, G. Muttschke, T. Weier, A. Gebert, L. Schultz
Electrochim. Acta **56**(1) 297, (2010).
- 993 *Metamagnetic transitions and magnetocaloric effect in epitaxial Ni-Co-Mn-In films*
 R. Niemann, O. Heczko, L. Schultz, S. Fähler
Appl. Phys. Lett. **97**(22) 222507, (2010).
- 994 *Growth of strained $La_{1-x}Sr_xCoO_{30}$ films and multilayers using layer-by-layer growth*
 S. Trommler, R. Hühne, A.D. Rata, L. Schultz, B. Holzapfel
Thin Solid Films **519**(1) 69, (2010).
- 995 *Point-contact study of the $LuNi_2B_2C$ borocarbide superconducting film*
 O.E. Kvintitskaya, Y.G. Naidyuk, I.K. Yanson, T. Niemeier, G. Fuchs, B. Holzapfel, L. Schultz
Supercond. Sci. Technol. **23**(11) 115001, (2010).
- 996 *Ex situ MgB_2 barrier behavior of monofilament in situ MgB_2 wires with Glidcop (R) sheath material*
 A. Kario, A. Morawski, W. Häßler, K. Nenkov, M. Schubert, M. Herrmann, B. Ringsdorf, S.I. Schlachter,
 W. Goldacker, B. Holzapfel, L. Schultz
Supercond. Sci. Technol. **23** (11) 115007, (2010).
- 997 *Wide-range strain tunability provided by epitaxial $LaAl_{1-x}Sc_xO_3$ template films*
 A. Herklotz, M.D. Biegalski, H.-S. Kim, L. Schultz, K. Dörr, H.M. Christen
New J. Phys. **12** 113053, (2010).
- 998 *Reversible shift in the superconducting transition for $La_{1.85}Sr_{0.15}CuO_4$ and $BaFe_{1.8}Co_{0.2}As_2$ using piezoelectric substrates*
 S. Trommler, R. Hühne, K. Iida, P. Pahlke, S. Haindl, L. Schultz, B. Holzapfel
New J. Phys. **12** 103030, (2010).
- 999 *Electrical characterization of PMN-28%PT(001) crystals used as thin-film substrates*
 A. Herklotz, J.D. Plumhof, A. Rastelli, O.G. Schmidt, L. Schultz, K. Dörr
J. Appl. Phys. **108**(9) 094101, (2010).
- 1000 *Influence of Fe buffer thickness on the crystalline quality and the transport properties of $Fe/Ba(Fe_{1-x}Co_x)_2As_2$ bilayers*
 K. Iida, S. Haindl, T. Thersleff, J. Hänisch, F. Kurth, M. Kidszun, R. Hühne, I. Mönch, L. Schultz, B.
 Holzapfel, R. Heller
Appl. Phys. Lett. **97**(17) 172507, (2010).
- 1001 *Finite-size effects in highly ordered ultrathin FePt films*
 F. Kurth, M. Weisheit, K. Leistner, T. Gemming, B. Holzapfel, L. Schultz, S. Fähler
Phys. Rev. B **82**(18) 184404, (2010).
- 1002 *Magnetic nanowires by electrodeposition within templates*
 H. Schlörb, V. Haehnel, M.S. Khatri, A. Srivastav, A. Kumar, L. Schultz, S. Fähler
Phys. Status Solidi B **247**(10) 2364, (2010).
- 1003 *Structure, Microstructure, and Magnetism of Electrodeposited $Fe_{70}Pd_{30}$ Nanowires*
 V. Haehnel, C. Mickel, S. Fähler, L. Schultz, H. Schlörb
J. Phys. Chem. C **114**(45) 19278, (2010).
- 1004 *Biaxially textured $LuNi_2B_2C$ thin films on MgO single crystals*
 T. Niemeier, R. Hühne, A. Köhler, G. Behr, L. Schultz, B. Holzapfel
J. Alloys Comp. **507**(2) 345, (2010).

- 1005 *Effect of high gradient magnetic fields on the anodic behaviour and localized corrosion of iron in sulphuric acid solutions*
 R. Sueptitz, K. Tschulik, M. Uhlemann, L. Schultz, A. Gebert
 Corr. Sci. **53**(10) 3222 (2011).
- 1006 *Sequence of structural and magnetic transitions in Ni₄₈Co₂Mn₃₉Sn₁₁ shape memory alloy*
 D.Y. Cong, Q. Luo, S. Roth, J. Liu, O. Gutfleisch, M. Pötschke, C. Hürrich, L. Schultz
 J. Magn. Magn. Mater. **323**(20) 2519 (2011).
- 1007 *Effect of magnetization state on the corrosion behaviour of NdFeB permanent magnets*
 R. Sueptitz, K. Tschulik, M. Uhlemann, M. Katter, L. Schultz, A. Gebert
 Corr. Sci. **53**(9) 2843 (2011).
- 1008 *Twin boundary energy of hierarchically twinned magnetic shape memory alloys*
 A. Diestel, A. Backen, U.K. Rössler, L. Schultz, S. Fähler
 Appl. Phys. Lett. **99**(9) 092512 (2011).
- 1009 *Magnetoelastic response of La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ superlattices to reversible strain*
 M.C. Dekker, A. Herklotz, L. Schultz, M. Reibold, K. Vogel, M.D. Biegalski, H.M. Christen, K. Doerr
 Phys. Rev. B **84**(5) 054463 (2011).
- 1010 *Two-Band BCS Mechanism of Superconductivity in a Ba(Fe_{0.9}Co_{0.1})₂As₂ High-Temperature Superconductor*
 E.G. Maksimov, A.E. Karakozov, A.A. Voronkov, B.P. Gorshunov, S.S. Zhukov, E.S. Zhukova, V.S. Nozdrin, S. Haindl, B. Holzapfel, L. Schultz, D. Wu, M. Dressel, K. Iida, P. Kallina, F. Kurth
 J Exp. Theor. Phys. Lett. **93**(12) 736 (2011).
- 1011 *Magnetic field effects on the active dissolution of iron*
 R. Süptitz, K. Tschulik, M. Uhlemann, L. Schultz, A. Gebert
 Electrochim. Acta **56**(17) 5866 (2011).
- 1012 *Critical current density enhancement in strongly reactive ex situ MgB₂ bulk and tapes prepared by high energy milling*
 A. Kario, R. Nast, W. Häfler, C. Rodig, C. Mickel, W. Goldacker, B. Holzapfel, L. Schultz
 Supercond. Sci. Technol. **24**(7) 075011 (2011).
- 1013 *Largely enhanced energy density in epitaxial SmCo₅/Fe/SmCo₅ exchange spring trilayers*
 S. Sawatzki, R. Heller, C. Mickel, M. Seifert, L. Schultz, V. Neu
 J. Appl. Phys. **109**(12) 123922 (2011).
- 1014 *Quantitative assessment of pinning forces and magnetic penetration depth in NbN thin films from complementary magnetic force microscopy and transport measurements*
 T. Shapoval, H. Stopfel, S. Haindl, J. Engelmann, D.S. Inosov, B. Holzapfel, V. Neu, L. Schultz
 Phys. Rev. B **83**(21) 214517 (2011).
- 1015 *J_c Scaling and Anisotropies in Co-Doped Ba-122 Thin Films*
 J. Häniisch, K. Iida, S. Haindl, F. Kurth, A. Kauffmann, M. Kidszun, T. Thersleff, J. Freudenberger, L. Schultz, B. Holzapfel
 IEEE Trans. Appl. Supercond. **21**(3) 2887 (2011).
- 1016 *High-J_c YBCO Coated Conductors Based on IBAD-TiN Using Stainless Steel Substrates*
 R. Gärtner, R. Hühne, J. Engelmann, J. Häniisch, R. Kaltofen, S. Oswald, L. Schultz, B. Holzapfel
 IEEE Trans. Appl. Supercond. **21**(3) 2920 (2011).
- 1017 *Point-contact study of ReFeAsO_{1-x}F_x (Re = La, Sm) superconducting films*
 Y.G. Naidyuk, O.E. Kvitsinskaya, I.K. Yanson, G. Fuchs, S. Haindl, M. Kidszun, L. Schultz, B. Holzapfel
 Supercond. Sci. Technol. **24**(6) 065010 (2011).

- 1018 *Array anisotropy in structured thin film arrays: Influence on the magnetodynamics*
 M. Wolf, C. Patschureck, R. Schäfer, I. Mönch, L. Schultz, J. McCord
J. Magn. Magn. Mater. **323**(12) 1703 (2011).
- 1019 *Electrodeposition of separated 3D metallic structures by pulse-reverse plating in magnetic gradient fields*
 K. Tschulik, R. Sueptitz, M. Uhlemann, L. Schultz, A. Gebert
Electrochim. Acta **56**(14) 5174-5177, (2011).
- 1020 *Electrodeposition and characterization of Fe₈₀Ga₂₀ alloy films*
 D. Iselt, U. Gaitzsch, S. Oswald, S. Faehler, L. Schultz, H. Schloerb
Electrochim. Acta **56**(14) 5178-5183, (2011).
- 1021 *Modulated martensite: why it forms and why it deforms easily*
 S. Kaufmann, R. Niemann, T. Thersleff, U.K. Roessler, O. Heczko, J. Buschbeck, B. Holzapfel, L. Schultz,
 S. Faehler
New J. Phys. **13** 053029, (2011).
- 1022 *Influence of dipolar energy on the magnetization reversal in magnetization-modulated thin film systems: Model and experiment*
 N. Martin, I. Moench, R. Schaefer, J. Fassbender, L. Schultz, J. McCord
Phys. Rev. B **83**(17) 174423 (2011).
- 1023 *In Situ Analysis of Three-Dimensional Electrolyte Convection Evolving during the Electrodeposition of Copper in Magnetic Gradient Fields*
 K. Tschulik, C. Cierpka, A. Gebert, L. Schultz, C.J. Kaehler, M. Uhlemann
Anal Chem. **83**(9) 3275 (2011).
- 1024 *Nanocolumns in YBa₂Cu₃O_{7-x}/BaZrO₃ quasi-multilayers: formation and influence on superconducting properties*
 A. Kiessling, J. Hänisch, T. Thersleff, E. Reich, M. Weigand, R. Hühne, M. Sparsing, B. Holzapfel, J.H. Durrell, L. Schultz
Supercond. Sci. Technol. **24**(5) 055018 (2011).
- 1025 *Critical current densities in ultrathin Ba(Fe,Co)₂As₂ microbridges*
 D. Rall, K. Il'in, K. Iida, S. Haindl, F. Kurth, T. Thersleff, L. Schultz, B. Holzapfel, M. Siegel
Phys. Rev B **83**(13) 134514, (2011).
- 1026 *Scaling of the temperature-dependent resistivity in SrFe_{2-x}Ni_xAs₂*
 E. Arushanov, S. Levchenko, G. Fuchs, B. Holzapfel, S.-L. Drechsler, L. Schultz
Physica C **471**(7-8) 237 (2011).
- 1027 *Casting vacuum effects on the precipitates and magnetic properties of Fe-based glassy alloys*
 W.-M. Wang, J.T. Zhang, A. Gebert, S. Roth, L. Schultz
J. Non-Crystalline Solids **357**(7) 1657 (2011).
- 1028 *Local orientation analysis by electron backscatter diffraction in highly textured sintered, die-upset, and hydrogenation disproportionation desorption and recombination Nd-Fe-B magnets*
 K. Gueth, T.G. Woodcock, J. Thielsch, L. Schultz, O. Gutfleisch
J. Appl. Phys. **109**(7) 07A764 (2011).
- 1029 *Electrochemical micromachining of a Zr-based bulk metallic glass using a micro-tool electrode technique*
 J.A. Koza, R. Sueptitz, M. Uhlemann, L. Schultz, A. Gebert
Intermetallics **19**(4) 437 (2011).

- 1030 *Critical Current Scaling and Anisotropy in Oxypnictide Superconductors*
 M. Kidszun, S. Haindl, T. Thersleff, J. Häniisch, A. Kauffmann, K. Iida, J. Freudenberger, L. Schultz, B. Holzapfel
 Phys. Rev. Lett. **106**(13) 137001 (2011).
- 1031 *Enhanced Nucleation of Vortices in Soft Magnetic Materials Prepared by Silica Nanosphere Lithography*
 N. Martin, N.C. Bigall, I. Mönch, T. Gemming, A. Eychmüller, R. Mattheis, R. Schäfer, L. Schultz, J. McCord
 Adv. Funct. Mater. **21**(5) 891(2011).
- 1032 *Deformation induced thermoremanent magnetisation in an FeMnNiCr antiferromagnetic alloy*
 D. Geissler, K.H. Müller, J. Freudenberger, K. Nenkov, M. Krautz, J. Eickemeyer, L. Schultz
 J. Alloys Compd. **509**(9) 3726 (2011).
- 1033 *Comparison of local and global texture in HDDR processed Nd-Fe-B magnets*
 K. Güth, T.G. Woodcock, L. Schultz, O. Gutfleisch.
 Acta Mater. **59**(5) 2029 (2011).
- 1034 *Hydrogen evolution under the influence of a magnetic field*
 J.A. Koza, S. Mühlenhoff, P. Zabinski, P.A. Nikritjuk, K. Eckert, M. Uhlemann, A. Gebert, T. Weier, L. Schultz, S. Odenbach
 Electrochim. Acta **56**(6) 2665 (2011).
- 1035 *Catalysis of H₂ sorption in NaAlH₄: General description and new insights*
 C. Rongeät, N. Scheerbaum, L. Schultz, O. Gutfleisch
 Acta Mater. **59**(4) 1725 (2011).
- 1036 *Improved Synthesis of Bulk Metallic Glasses by Current-Assisted Copper Mold Casting*
 M. Stoica, A. Bardos, S. Roth, L.K. Varga, L. Schultz, A. Lovas, J. Eckert
 Adv. Engin. Mater. **13**(1-2) 38 (2011).
- 1037 *Advanced Nb/FePt L1(0) hybrid thin films*
 S. Haindl, T. Thersleff, T Shapoval, Y.W. Lai, J. McCord, L. Schultz, B. Holzapfel
 Supercond. Sci. Technol. **24**(2) 024002, (2011).
- 1038 *Novel sodium aluminium borohydride containing the complex anion [Al(BH₄,Cl)₄]*
 I. Lindemann, R.D. Ferrer, L. Dunsch, R. Cerny, H. Hagemann, V. D'Anna, Y. Filinchuk, L. Schultz, O. Gutfleisch
 Faraday Discuss. **151** 231 (2011).
- 1039 *Epitaxial Growth of Superconducting Ba(Fe_{1-x}Co_x)₂As₂ Thin Films on Technical Ion Beam Assisted Deposition MgO Substrates*
 K. Iida, J. Häniisch, S. Trommler, V. Matias, S. Haindl, F. Kurth, I.L. del Pozo, R. Hühne, M. Kidszun, J. Engelmann, L. Schultz, B. Holzapfel
 Appl. Phys. Express **4**(1) 013103 (2011).
- 1040 *Correlation of crystallographic structure and magnetic properties of electrodeposited Co-rich Co-Pt films*
 M.S. Khatri, H. Schlörb, S. Fähler, L. Schultz
 Phys. Stat. Solidi A **208**(1) 104 (2011).
- 1041 *Effect of the presence of chlorides on the synthesis and decomposition of Ca(BH₄)₂*
 C. Rongeät, I. Lindemann, A. Borgschulte, L. Schultz, O. Gutfleisch
 Int. J. Hydrogen Energy **36**(1) 247 (2011).

Polycrystalline Ni-Mn-Ga as a Potential Material for Magnetically Driven Actuators

Poetschke, Martin ; Roth, Stefan ; (...); Schultz, Ludwig

International Conference on Processing and Manufacturing of Advanced Materials Published
2011

Ti-Al Composite Wires with High Specific Strength

Marr, Tom ; Freudenberger, Jens ; (...); Schultz, Ludwig

Published 2011 |

Metals

As vacancies, local moments, and Pauli limiting in LaFeAs_{1-delta}O_{0.9}F_{0.1} superconductors

Grinenko, Vadim ; Kikoin, Konstantin ; (...); Schultz, Ludwig

Published 2011 |

Physical Review B

Badge of Honour of the German Physical Society Awarded to Prof. Dr. Ludwig Schultz

Schultz, Ludwig

Published Feb 2011 |

International Journal of Materials Research (formerly Zeitschrift Fuer Metallkunde)

Scaling of the Temperature Dependent Resistivity and Hall Effect in Ba(Fe_{1-x}Co_(x))As-2

Arushanov, E. ; Levchenko, S. ; (...); Schultz, L.

Published Jun 2011 |

Journal of Superconductivity and Novel Magnetism

Magnetic field effects on the active dissolution of iron

Sueftitz, Ralph ; Tschulik, K. ; (...); Gebert, A.

Published Jul 2011 |

Electrochimica Acta

Influence of grain size and training temperature on strain of polycrystalline Ni₅₀Mn₂₉Ga₂₁ samples

Huerrich, C. ; Roth, S. ; (...); Schultz, L.

Published Jul 2011 |

Journal of Physics: Conference Series

Scaling of the temperature-dependent resistivity in 122 iron-pnictide superconductors

Arushanov, E. ; Fuchs, G. ; (...); Schultz, L.

Published Aug 2011 |

Superconductor Science and Technology

Magnetoelastic response of La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ superlattices to reversible strain

Dekker, M. C. ; Herklotz, A. ; (...); Doerr, K.

Published Aug 2011 |

Physical Review B

[Two-Band BCS Mechanism of Superconductivity in a Ba\(Fe0.9Co0.1\)\(2\)As-2 High-Temperature Superconductor](#)
Maksimov, E. G. ; Karakozov, A. E. ; (...); Kurth, F.
Published Aug 2011 |
[JETP Letters](#)

[Twin boundary energy of hierarchically twinned magnetic shape memory alloys](#)
Diestel, Anett ; Backen, Anja ; (...); Faehler, Sebastian
Published Aug 2011 |
[Applied Physics Letters](#)

[Effect of magnetization state on the corrosion behaviour of NdFeB permanent magnets](#)
Sueptitz, Ralph ; Tschulik, K. ; (...); Gebert, A.
Published Sep 2011 |
[Corrosion Science](#)

[How to obtain structured metal deposits from diamagnetic ions in magnetic gradient fields?](#)
Tschulik, Kristina ; Yang, Xuegeng ; (...); Gebert, Annett
Published Sep 2011 |
[Electrochemistry Communications](#)

[Peculiarities of the superconducting gaps and the electron-boson interaction in TmNi₂B₂C as seen by point-contact spectroscopy](#)
Naidyuk, Yu. G. ; Kvintitskaya, O. E. ; (...); Schultz, L.
Published Sep 2011 |
[Physical Review B](#)

[The Nucleation of the Spin Spiral in Epitaxial SmCo₅/Fe/SmCo₅ Exchange Spring Trilayers](#)
Kopte, Martin ; Sawatzki, Simon ; (...); Neu, Volker
Published Oct 2011 |
[IEEE Transactions on Magnetics](#)

[Quantitative Magnetic Force Microscopy Study of the Diameter Evolution of Bubble Domains in a \(Co/Pd\)\(80\) Multilayer](#)
Vock, Silvia ; Sasvari, Zoltan ; (...); Neu, Volker
Published Oct 2011 |
[IEEE Transactions on Magnetics](#)

[First steps towards cube textured nickel profile wires for YBCO-coated conductors](#)
Eickemeyer, J. ; Gueth, A. ; (...); Schultz, L.
Published Oct 2011 |
[Physica C: Superconductivity and its Applications](#)

[Effect of high gradient magnetic fields on the anodic behaviour and localized corrosion of iron in sulphuric acid solutions](#)
Sueptitz, R. ; Tschulik, K. ; (...); Gebert, A.
Published Oct 2011 |
[Corrosion Science](#)

[Sequence of structural and magnetic transitions in Ni₄₈Co₂Mn₃₉Sn₁₁ shape memory alloy](#)
Cong, D. Y. ; Luo, Q. ; (...); Schultz, L.
Published Oct 2011 |
[Journal of Magnetism and Magnetic Materials](#)

[Understanding the Metal-Carbon Interface in FePt Catalyzed Carbon Nanotubes](#)

Pohl, D. ; Schaeffel, F. ; (...); Rellinghaus, B.

Published Oct 2011 |

[Physical Review Letters](#)

[Coated conductor architectures based on IBAD-TiN for high-J\(c\) YBCO films](#)

Huehne, R. ; Gaertner, R. ; (...); Holzapfel, B.

Published Nov 2011 |

[Physica C: Superconductivity and its Applications](#)

[The effect of oxidation on the surface-near lattice relaxation in FeNi nanoparticles](#)

Bieniek, Bjoern ; Pohl, Darius ; (...); Rellinghaus, Bernd

Published Nov 2011 |

[Journal of Nanoparticle Research](#)

[Magnetic Nanostructures by Adaptive Twinning in Strained Epitaxial Films](#)

Kauffmann-Weiss, Sandra ; Gruner, Markus E. ; (...); Faehler, Sebastian

Published Nov 2011 |

[Physical Review Letters](#)

[Generic Fe buffer layers for Fe-based superconductors: Epitaxial FeSe_{1-x}Tex thin films](#)

Iida, Kazumasa ; Haenisch, Jens ; (...); Holzapfel, Bernhard

Published Nov 2011 |

[Applied Physics Letters](#)

[Catalyst Poisoning by Amorphous Carbon during Carbon Nanotube Growth: Fact or Fiction?](#)

Schuenemann, Christoph ; Schaeffel, Franziska ; (...); Ruemmeli, Mark H.

Published Nov 2011 |

[ACS Nano](#)

[Thickness dependence of structural and transport properties of Co-doped BaFe₂As₂ on Fe buffered MgO substrates](#)

Iida, Kazumasa ; Haenisch, Jens ; (...); Holzapfel, Bernhard

Published Dec 2011 |

[Superconductor Science and Technology](#)

[Appearance of dislocation-mediated and twinning-induced plasticity in an engineering-grade FeMnNiCr alloy](#)

Geissler, D. ; Freudenberger, J. ; (...); Schultz, L.

Published Dec 2011 |

[Acta Materialia](#)

[Severe deformation twinning in pure copper by cryogenic wire drawing](#)

Kauffmann, A. ; Freudenberger, J. ; (...); Schultz, L.

Published Dec 2011 |

[Acta Materialia](#)

[Reversible change of magnetism in FePt films by electrochemical charging in a LiClO₄ based electrolyte](#)

Leistner, K. ; Lange, N. ; (...); Schultz, L.

Published 2012 |
ECS Transactions

Ti6Al7Nb SURFACE MODIFICATION BY ANODIZATION IN ELECTROLYTES CONTAINING HF

Stoica, Emanuela-Daniela ; Fedorov, Fedor ; (...); Schultz, Ludwig

Published 2012 |

UPB Scientific Bulletin, Series B: Chemistry and Materials Science

Electrode processes and in situ magnetic measurements of FePt films in a LiPF6 based electrolyte

Leistner, K. ; Lange, N. ; (...); Schultz, L.

Published 2012 |

Electrochimica Acta

24

Times

Cited

A superconducting levitation transport model system for dynamical and didactical studies

Rosenzweig, St. ; Reich, E. ; (...); Pospiech, G.

Published 2012 |

7TH INTERNATIONAL TOPICAL MEETING ON NEUTRON RADIOGRAPHY (ITMNR-7)

4

Times

Cited

Combinatorial synthesis of (Y_xGd_{1-x})Ba₂Cu₃O_x superconducting thin films

Kirchner, A. ; Erbe, M. ; (...); Holzapfel, B.

Published 2012 |

7TH INTERNATIONAL TOPICAL MEETING ON NEUTRON RADIOGRAPHY (ITMNR-7)

0

Times

Cited

Architecture, microstructure and J(c) anisotropy of highly oriented biaxially textured Co-doped BaFe₂As₂ on Fe/IBAD-MgO-buffered metal tapes

Trommler, S. ; Haenisch, J. ; (...); Holzapfel, B.

Published 2012 |

Superconductor Science and Technology

43

Times

Cited

Investigations on High Temperature MgB₂ Superconductor Wires and Tapes with New Sheath Materials and the Correlation of Their Microstructures and Properties

Schubert, M. ; Haessler, W. ; (...); Schultz, L.

Published Jan 2012 |

Praktische Metallographie/Practical Metallography

0

Times

Cited

Reproducibility of martensitic transformation and phase constitution in Ni-Co-Al

Scheerbaum, N. ; Kraus, R. ; (...); Gutfleisch, O.

Published Jan 2012 |

Intermetallics

11

Times

Cited

[Electrochemical Quartz Crystal Microbalance Study of the Fe-Ga Co-Deposition](#)

Iselt, D. ; Tschulik, K. ; (...); Schloerb, H.

Published Jan 2012 |

[Journal of the Electrochemical Society](#)

7

Times

Cited

[Magnetomechanical training of single crystalline Ni-Mn-Ga alloy](#)

Gaitzsch, Uwe ; Klauss, Hansjoerg ; (...); Schultz, Ludwig

Published Feb 2012 |

[Journal of Magnetism and Magnetic Materials](#)

7

Times

Cited

[Reversible Magnetic Field Induced Strain in Ni₂MnGa-Polymer-Composites](#)

Kauffmann-Weiss, Sandra ; Scheerbaum, Nils ; (...); Gutfleisch, Oliver

Published Feb 2012 |

[Advanced Engineering Materials](#)

19

Times

Cited

[In-situ strain effect on extrinsic transport of polycrystalline La-0.7\(Ca,Sr\)\(0.3\)MnO₃ films](#)

Gangineni, R. B. ; Kim, J. W. ; (...); Schultz, L.

Published Mar 2012 |

[Journal of Magnetism and Magnetic Materials](#)

3

Times

Cited

[Interactions between mechanically generated defects and corrosion phenomena of Zr-based bulk metallic glasses](#)

Gebert, A. ; Gostin, P. F. ; (...); Schultz, L.

Published Mar 2012 |

[Acta Materialia](#)

38

Times

Cited

[Clarifying the Mechanism of Reverse Structuring during Electrodeposition in Magnetic Gradient Fields](#)

Tschulik, Kristina ; Cierpka, Christian ; (...); Uhlemann, Margitta

Published Mar 2012 |

[Analytical Chemistry](#)

27

Times

Cited

[The influence of the buffer layer architecture on transport properties for BaFe_{1.8}Co_{0.2}As₂ films on technical substrates](#)

Trommler, S. ; Huehne, R. ; (...); Holzapfel, B.

Published Mar 2012 |

[Applied Physics Letters](#)

25

Times

Cited

[IN-SITU ANALYSIS OF THE ION CONCENTRATION DISTRIBUTION AND THE ELECTROLYTE CONVECTION EVOLVING DURING ELECTRODEPOSITION IN MAGNETIC GRADIENT FIELDS](#)

Tschulik, K. ; Cierpka, C. ; (...); Gebert, A.

Published Apr 2012 |

Magnetohydrodynamics

4

Times

Cited

[Microstructure of free-standing epitaxial Ni-Mn-Ga films before and after variant reorientation](#)

Yeduru, S. R. ; Backen, A. ; (...); Kohl, M.

Published Apr 2012 |

Scripta Materialia

12

Times

Cited

[Dilute Magnetic Semiconductors: ab initio Studies of V doped ZnO](#)

Dunne, P. ; Uhlemann, M. ; (...); Schultz, L.

Published Apr 2012 |

ECS Transactions

2

Times

Cited

[Probing the anisotropy constants of SmCo5 and PrCo5 by Hall resistance measurements in pulsed high magnetic fields up to 47 T](#)

Stilp, E. ; Freudenberger, J. ; (...); Neu, V.

Published May 2012 |

[Growth of sputter-deposited metamagnetic epitaxial Ni-Co-Mn-In films](#)

Niemann, R. ; Schultz, L. ; Faehler, S.

Published May 2012 |

Journal of Applied Physics

17

Times

Cited

[Field- and time-dependent, local and global magnetization behaviour of out-of-plane textured SmCo5 thin films](#)

Seifert, M. ; Knittel, I. ; (...); Neu, V.

Published May 2012 |

Journal of Physics D: Applied Physics

6

Times

Cited

[In situ magnetic force microscope studies of magnetization reversal of interaction domains in hot deformed Nd-Fe-B magnets](#)

Thielsch, J. ; Stopfel, H. ; (...); Gutfleisch, O.

Published May 2012 |

Journal of Applied Physics

34

Times

Cited

[Nb_{1-y}Fe_{2+y} thin film growth and characterization](#)

Reisner, A. ; Scheerbaum, N. ; (...); Haindl, S.

Published May 2012 |

Journal of Physics: Condensed Matter

1

Times
Cited

[Extrinsic electronic transport in La-0.7\(Sr, Ca\)\(0.3\)MnO₃ films deposited on step edges and bicrystal substrates](#)

Gangineni, R. B. ; Kozlova, N. ; (...) ; Schultz, L.

Published Jun 2012 |

[Journal of Physics: Condensed Matter](#)

0

Times
Cited

[Evolution of hillocks in Bi thin films and their removal upon nanoscale mechanical polishing](#)

Koseva, R. ; Moench, I. ; (...) ; Schmidt, O. G.

Published Jun 2012 |

[Thin Solid Films](#)

9

Times
Cited

[Magnetic properties and structural transformations in Ni-Co-Mn-Sn multifunctional alloys](#)

Cong, D. Y. ; Roth, S. ; Schultz, L.

Published Aug 2012 |

[Acta Materialia](#)

185

Times
Cited

[Understanding the Magnetic Shape Memory System Fe-Pd-X by Thin Film Experiments and First Principle Calculations](#)

Kauffmann-Weiss, Sandra ; Hamann, Sven ; (...) ; Faehler, Sebastian

Published Aug 2012 |

[Advanced Engineering Materials](#)

13

Times
Cited

[The Role of Adaptive Martensite in Magnetic Shape Memory Alloys](#)

Niemann, Robert ; Roessler, Ulrich K. ; (...) ; Faehler, Sebastian

Published Aug 2012 |

[Advanced Engineering Materials](#)

96

Times
Cited

[Processing Routes Toward Textured Polycrystals in Ferromagnetic Shape Memory Alloys](#)

Gaitzsch, Uwe ; Chulist, Robert ; (...) ; Schultz, Ludwig

Published Aug 2012 |

[Advanced Engineering Materials](#)

16

Times
Cited

[Epitaxial Ni-Mn-Ga Films for Magnetic Shape Memory Alloy Microactuators](#)

Backen, Anja ; Yeduru, Srinivasa Reddy ; (...) ; Faehler, Sebastian

Published Aug 2012 |

[Advanced Engineering Materials](#)

27

Times
Cited

[Structure and Composition of Magnetocaloric Ni-Mn-In-Co Thin Films on the Nanoscale A TEM Study](#)

Erkatal, Burak ; Duppel, Viola ; (...) ; Kienle, Lorenz

Published Aug 2012 |

Advanced Engineering Materials

9

Times

Cited

Magnetic Domains and Twin Boundary Movement of NiMnGa Magnetic Shape Memory Crystals

Neudert, Andreas ; Lai, Yin Wai ; (...); McCord, Jeffrey

Published Aug 2012 |

Advanced Engineering Materials

27

Times

Cited

Magnetization dynamics of buckling domain structures in patterned thin films

Patschureck, C. ; Lenz, K. ; (...); McCord, J.

Published Aug 2012 |

Physical Review B

9

Times

Cited

Ultra-fine grained Nd-Fe-B by high pressure reactive milling and desorption

Gueth, Konrad ; Lyubina, Julia ; (...); Gutfleisch, Oliver

Published Sep 2012 |

Journal of Magnetism and Magnetic Materials

9

Times

Cited

Penetration and de-pinning of vortices in sub-micrometer Ba(Fe,Co)(2)As-2 thin film bridges

Rall, Dagmar ; Rehm, Laura ; (...); Lemberger, Thomas

Published Sep 2012 |

Physica C: Superconductivity and its Applications

2

Times

Cited

Magnetic domain structure of epitaxial Ni-Mn-Ga films

Diestel, Anett ; Backen, Anja ; (...); Faehler, Sebastian

Published Sep 2012 |

Scripta Materialia

11

Times

Cited

Acid corrosion process of Fe-based bulk metallic glass

Gostin, P. F. ; Oswald, S. ; (...); Gebert, A.

Published Sep 2012 |

Corrosion Science

41

Times

Cited

Magnetically and thermally induced switching processes in hard magnets

Behler, Christian ; Neu, Volker ; (...); Faehler, Sebastian

Published Oct 2012 |

Journal of Applied Physics

7

Times

Cited

[Reversible solid-state hydrogen-pump driven by magnetostructural transformation in the prototype system La\(Fe,Si\)\(13\)H-y](#)

Krautz, Maria ; Moore, James D. ; (...); Gutfleisch, Oliver

Published Oct 2012 |

[Journal of Applied Physics](#)

[46](#)

Times

Cited

[Fully Epitaxial, Exchange Coupled SmCo5/Fe Multilayers With Energy Densities above 400 kJ/m\(3\)](#)

Neu, V. ; Sawatzki, S. ; (...); Schultz, L.

Published Nov 2012 |

[IEEE Transactions on Magnetics](#)

[60](#)

Times

Cited

[Imaging the Magnetization Processes in Epitaxial Exchange Coupled SmCo5/Fe/SmCo5 Trilayers](#)

Neu, V. ; Zimmermann, S. ; (...); Schultz, L.

Published Nov 2012 |

[IEEE Transactions on Magnetics](#)

[0](#)

Times

Cited

[Enhancement of high-T-C superconducting thin film devices by nanoscale polishing](#)

Michałowski, P. ; Shapoval, T. ; (...); Seidel, P.

Published Nov 2012 |

[Superconductor Science and Technology](#)

[2](#)

Times

Cited

[Enhancing magnetocrystalline anisotropy of the Fe70Pd30 magnetic shape memory alloy by adding Cu](#)

Kauffmann-Weiss, S. ; Hamann, S. ; (...); Faehler, S.

Published Dec 2012 |

[Acta Materialia](#)

[13](#)

Times

Cited

[Tuning avalanche criticality: Acoustic emission during the martensitic transformation of a compressed Ni-Mn-Ga single crystal](#)

Niemann, R. ; Baro, J. ; (...); Planes, A.

Published Dec 2012 |

[Physical Review B](#)

[34](#)

Times

Cited

[Quantitative Measurement of the Surface Self-Diffusion on Au Nanoparticles by Aberration-Corrected Transmission Electron Microscopy](#)

Surrey, A. ; Pohl, D. ; (...); Rellinghaus, B.

Published Dec 2012 |

[Nano Letters](#)

[71](#)

Times

Cited

[Metamagnetic effects in epitaxial BaFe1.8Cr0.2As2 thin films](#)

Engelmann, J. ; Mueller, K. H. ; (...); Haindl, S.

Published Dec 2012 |

The European Physical Journal B

3

Times

Cited

[The impact of oxygen on the morphology of gas-phase prepared Au nanoparticles](#)

Pohl, D. ; Surrey, A. ; (...); Rellinghaus, B.

Published Dec 2012 |

Applied Physics Letters

15

Times

Cited

[Ageing Effect of the Electrolyte on Structure and Magnetic Properties of Co-Rich Co-Pt Films](#)

Khatri, M. S. ; Schloerb, H. ; (...); Schultz, L.

Published 2013 |

AIP Conference Proceedings

0

Times

Cited

[Infrared Photo-Response of Fe-Shunted Ba-122 Thin Film Microstructures](#)

Rehm, L. ; Henrich, D. ; (...); Schultz, L.

Published 2013 |

IEEE Transactions on Applied Superconductivity

1

Times

Cited

[Highly alloyed Ni-W substrates for low AC loss applications](#)

Gaitzsch, Uwe ; Haenisch, Jens ; (...); Schultz, Ludwig

Published 2013 |

Superconductor Science and Technology

40

Times

Cited

[Fe/Ba\(Fe_{1-x}Cox\)\(2\)As-2 multilayers and quasi-multilayers with T_c=29 K](#)

Engelmann, J. ; Iida, K. ; (...); Haindl, S.

Published 2013 |

Physica C: Superconductivity and its Applications

9

Times

Cited

[Electronic phase diagram of disordered Co doped BaFe₂As₂-delta](#)

Kurth, F. ; Iida, K. ; (...); Haindl, S.

Published 2013 |

Superconductor Science and Technology

22

Times

Cited

[Electrodeposition of Fe-Ga Alloys: From Thin Films to Nanowires](#)

Iselt, Diana ; Funk, Alexander ; (...); Schloerb, Heike

Published 2013 |

ECS Electrochemistry Letters

9

Times
Cited

[Processing of Intermetallic Titanium Aluminide Wires](#)

Marr, Tom ; Freudenberger, Jens ; (...); Schultz, Ludwig
Published 2013 |

[Metals](#)

[14](#)

Times
Cited

[Effect of milling parameters on SmCo5 nanoflakes prepared by surfactant-assisted high energy ball milling](#)

Pal, Santosh K. ; Schultz, Ludwig ; Gutfleisch, Oliver
Published Jan 2013 |

[Journal of Applied Physics](#)

[40](#)

Times
Cited

[Domain evolution during the spin-reorientation transition in epitaxial NdCo5 thin films](#)

Seifert, M. ; Schultz, L. ; (...); Oepen, H. P.
Published Jan 2013 |

[New Journal of Physics](#)

[11](#)

Times
Cited

[Recycling Used Nd-Fe-B Sintered Magnets via a Hydrogen-Based Route to Produce Anisotropic, Resin Bonded Magnets](#)

Gutfleisch, Oliver ; Gueth, Konrad ; (...); Schultz, Ludwig
Published Feb 2013 |

[Advanced Energy Materials](#)

[53](#)

Times
Cited

[Insight into the decomposition pathway of the complex hydride Al₃Li₄\(BH₄\)₁₃](#)

Lindemann, Inge ; Borgschulte, Andreas ; (...); Gutfleisch, Oliver
Published Feb 2013 |

[International Journal of Hydrogen Energy](#)

[13](#)

Times
Cited

[Influence of kinetics on the phase formation in epitaxial Fe-Pd films](#)

Kauffmann-Weiss, Sandra ; Erkatal, Burak ; (...); Faehler, Sebastian
Published Mar 2013 |

[Scripta Materialia](#)

[1](#)

Times
Cited

[Intrinsic pinning and the critical current scaling of clean epitaxial Fe\(Se, Te\) thin films](#)

Iida, Kazumasa ; Haenisch, Jens ; (...); Buechner, Bernd
Published Mar 2013 |

[Physical Review B](#)

[49](#)

Times
Cited

[Dynamic variation of biaxial strain in optimally doped and underdoped YBa₂Cu₃O₇-delta thin films](#)

Pahlke, P. ; Trommler, S. ; (...); Huehne, R.

Published Mar 2013 |

Journal of Applied Physics

13

Times

Cited

Mechanical Alloying of beta-Type Ti-Nb for Biomedical Applications

Zhuravleva, Ksenia ; Scudino, Sergio ; (...); Eckert, Juergen

Published Apr 2013 |

Advanced Engineering Materials

25

Times

Cited

Versatile fluoride substrates for Fe-based superconducting thin films

Kurth, F. ; Reich, E. ; (...); Iida, K.

Published Apr 2013 |

Applied Physics Letters

41

Times

Cited

Probing the energy barriers and magnetization reversal processes of nanoperforated membrane based percolated media

Neu, V. ; Schulze, C. ; (...); Albrecht, M.

Published Apr 2013 |

Nanotechnology

17

Times

Cited

Electrochemically driven variation of magnetic properties in ultrathin CoPt films

Reichel, L. ; Oswald, S. ; (...); Leistner, K.

Published Apr 2013 |

Journal of Applied Physics

18

Times

Cited

Influence of boron and oxygen on the microstructure and mechanical properties of high-strength Ti₆₆Nb₁₃Cu₈Ni_{6.8}Al_{6.2} alloys

Helth, A. ; Siegel, U. ; (...); Eckert, J.

Published May 2013 |

Acta Materialia

18

Times

Cited

Porous low modulus Ti₄₀Nb compacts with electrodeposited hydroxyapatite coating for biomedical applications

Zhuravleva, K. ; Chivu, A. ; (...); Gebert, A.

Published May 2013 |

Materials Science and Engineering: C

29

Times

Cited

Electric-field control of magnetism by reversible surface reduction and oxidation reactions

Leistner, K. ; Wunderwald, J. ; (...); Faehler, S.

Published Jun 2013 |

Physical Review B

42

Times
Cited

[Magnetic domain pattern in hierarchically twinned epitaxial Ni-Mn-Ga films](#)

Diestel, Anett ; Neu, Volker ; (...); Faehler, Sebastian

Published Jul 2013 |

[Oxypnictide SmFeAs\(O,F\) superconductor: a candidate for high-field magnet applications](#)

Iida, Kazumasa ; Haenisch, Jens ; (...); Holzapfel, Bernhard

Published Jul 2013 |

[Scientific Reports](#)

38

Times
Cited

[Strain-controlled switching kinetics of epitaxial PbZr_{0.52}Ti_{0.48}O₃ films](#)

Herklotz, A. ; Guo, E-J ; (...); Doerr, K.

Published Jul 2013 |

[New Journal of Physics](#)

5

Times
Cited

[NaAlH₄ confined in ordered mesoporous carbon](#)

Minella, Christian Bonatto ; Lindemann, Inge ; (...); Gutfleisch, Oliver

Published Jul 2013 |

[International Journal of Hydrogen Energy](#)

21

Times
Cited

[Thickness dependence of the magnetoelastic effect of CoFe₂O₄ films grown on piezoelectric substrates](#)

Rus, S. F. ; Herklotz, A. ; (...); Doerr, K.

Published Jul 2013 |

[Journal of Applied Physics](#)

9

Times
Cited

[Atomic resolution structure-property relation in highly anisotropic granular FePt-C films with near-Stoner-Wohlfarth behaviour](#)

Wicht, S. ; Neu, V. ; (...); Rellinghaus, B.

Published Aug 2013 |

[Journal of Applied Physics](#)

35

Times
Cited

[Grain Refinement and Deformation Mechanisms in Room Temperature Severe Plastic Deformed Mg-AZ31](#)

Knauer, Enrico ; Freudenberger, Jens ; (...); Schultz, Ludwig

Published Sep 2013 |

[Metals](#)

19

Times
Cited

[Initial preorder as condition for L1\(0\) ordering in ultrathin CoPt films](#)

Reichel, L. ; Faehler, S. ; (...); Leistner, K.

Published Sep 2013 |

Journal of Applied Physics

5

Times

Cited

[Properties of isolated single crystalline and textured polycrystalline nano/sub-micrometre Nd₂Fe₁₄B particles obtained from milling of HDDR powder](#)

Pal, S. K. ; Gueth, K. ; (...); Gutfleisch, O.

Published Sep 2013 |

British Journal of Applied Physics

17

Times

Cited

[Electrical and magnetic properties of hot-deformed Nd-Fe-B magnets with different DyF₃ additions](#)

Sawatzki, Simon ; Dirba, Imants ; (...); Gutfleisch, Oliver

Published Oct 2013 |

Journal of Applied Physics

37

Times

Cited

[Magnetism of the tensile-strain-induced tetragonal state of SrRuO₃ films](#)

Herklotz, A. ; Kataja, M. ; (...); Doerr, K.

Published Oct 2013 |

Physical Review B

33

Times

Cited

[High trapped fields in bulk MgB₂ prepared by hot-pressing of ball-milled precursor powder](#)

Fuchs, G. ; Haessler, W. ; (...); Holzapfel, B.

Published Nov 2013 |

Superconductor Science and Technology

81

Times

Cited

[Metallographic Preparation of Aluminium-Titanium Composites](#)

Romberg, J. ; Freudenberger, J. ; (...); Schultz, L.

Published Nov 2013 |

Praktische Metallographie/Practical Metallography

8

Times

Cited

[Transformation behaviour of freestanding epitaxial Ni-Mn-Ga films](#)

Yeduru, S. R. ; Backen, A. ; (...); Kohl, M.

Published Nov 2013 |

Journal of Alloys and Compounds

15

Times

Cited

[Geometric factors on magnetically driven actuation behaviour for polycrystalline Ni-Mn-Ga and its composites](#)

Romberg, Jan ; Huerrick, Claudia ; (...); Schultz, Ludwig

Published Nov 2013 |

Journal of Alloys and Compounds

6

Times

Cited

[Electronic structure of the austenitic and martensitic state of magnetocaloric Ni-Mn-In Heusler alloy films](#)

Klaer, P. ; Herper, H. C. ; (...); Elmers, H. J.

Published Nov 2013 |

[Physical Review B](#)

[27](#)

Times

Cited

[Twinning Phenomena along and beyond the Bain Path](#)

Kauffmann-Weiss, Sandra ; Kauffmann, Alexander ; (...); Faehler, Sebastian

Published Dec 2013 |

[Metals](#)

[11](#)

Times

Cited

[Effect of microstructure on the mechanical properties of as-cast Ti-Nb-Al-Cu-Ni alloys for biomedical application](#)

Okulov, I. V. ; Pauly, S. ; (...); Eckert, J.

Published Dec 2013 |

[Materials Science and Engineering: C](#)

[36](#)

Times

Cited

[Production of Porous beta-Type Ti-40Nb Alloy for Biomedical Applications: Comparison of Selective Laser](#)

[Melting and Hot Pressing](#)

Zhuravleva, Ksenia ; Boenisch, Matthias ; (...); Gebert, Annett

Published Dec 2013 |

[Materials](#)

[67](#)

Times

Cited

[Strain induced superconductivity in the parent compound BaFe₂As₂](#)

Engelmann, J. ; Grinenko, V. ; (...); Holzapfel, B.

Published Dec 2013 |

[Nature Communications](#)

[60](#)

Times

Cited

[Dependence of coercivity on length ratios in sub-micron Nd₂Fe₁₄B particles with rectangular prism shape](#)

Thielsch, J. ; Suess, D. ; (...); Gutfleisch, O.

Published Dec 2013 |

[Journal of Applied Physics](#)

[18](#)

Times

Cited

[Properties of cryo-drawn copper with severely twinned microstructure](#)

Kauffmann, A. ; Freudenberger, J. ; (...); Schultz, L.

Published Dec 2013 |

[Materials Science and Engineering: A](#)

[20](#)

Times

Cited

[Annealing control of magnetic anisotropy and phase separation in CoFe₂O₄-BaTiO₃ nanocomposite films](#)

Rafique, Mohsin ; Herklotz, A. ; (...); Manzoor, Sadia

Published Dec 2013 |

Journal of Applied Physics

8

Times

Cited

CONTROLLING REVERSIBILITY OF THE MAGNETO-STRUCTURAL TRANSITION IN FIRST-ORDER MATERIALS ON THE MICRO SCALE

Niemann, R. ; Diestel, A. ; (...) ; Faehler, S.

Published 2014 |

7TH INTERNATIONAL CONFERENCE ON MAGNETIC REFRIGERATION AT ROOM TEMPERATURE

0

Times

Cited

COMPARING MAGNETOCALORIC PROPERTIES OF SUBSTRATE-CONSTRAINED AND FREESTANDING EPITAXIAL Ni-Mn-Ga-Co FILMS

Diestel, A. ; Schleicher, B. ; (...) ; Faehler, S.

Published 2014 |

7TH INTERNATIONAL CONFERENCE ON MAGNETIC REFRIGERATION AT ROOM TEMPERATURE

0

Times

Cited

Low temperature performance of Pb(Mg_{1/3}Nb_{2/3})(0.72)Ti_{0.28}O₃ single crystals mapped by metallic and superconducting thin films

Huehne, Ruben ; Trommler, Sascha ; (...) ; Schultz, Ludwig

Published 2014 |

JOINT IEEE INTERNATIONAL SYMPOSIUM ON THE APPLICATIONS OF FERROELECTRICS, INTERNATIONAL WORKSHOP ON ACOUSTIC TRANSDUCTION MATERIALS AND DEVICES & WORKSHOP ON PIEZORESPONSE FORCE MICROSCOPY (ISAF/IWATMD/PFM)

1

Times

Cited

Influence of the deposition geometry on structural and ferroelectric properties of epitaxial PMN-PT films

Mietschke, Michael ; Faehler, Sebastian ; (...) ; Huehne, Ruben

Published 2014 |

JOINT IEEE INTERNATIONAL SYMPOSIUM ON THE APPLICATIONS OF FERROELECTRICS, INTERNATIONAL WORKSHOP ON ACOUSTIC TRANSDUCTION MATERIALS AND DEVICES & WORKSHOP ON PIEZORESPONSE FORCE MICROSCOPY (ISAF/IWATMD/PFM)

0

Times

Cited

The Effect of 45 degrees Grain Boundaries and associated Fe particles on J(c) and resistivity in Ba(Fe_{0.9}Co_{0.1})₍₂₎As-2 Thin Films

Haenisch, J. ; Iida, K. ; (...) ; Holzapfel, B.

Published 2014 |

AIP Conference Proceedings

9

Times

Cited

Improved REBa₂Cu₃O_{7-x} (RE = Y, Gd) structure and superconducting properties by addition of acetylacetone in TFA-MOD precursor solutions

Erbe, Manuela ; Haenisch, Jens ; (...) ; Holzapfel, Bernhard

Published 2014 |

Journal of Materials Chemistry A

43

Times
Cited

[Thermoelectric effects and magnetic anisotropy of Ga_{1-x}Mn_xAs thin films](#)

Soldatov, I. V. ; Panarina, N. ; (...) ; Schaefer, R.

Published 2014 |

[Physical Review B](#)

[30](#)

Times
Cited

[Diffusion processes in hot-deformed Nd-Fe-B magnets with DyF₃ additions](#)

Sawatzki, Simon ; Dirba, Imants ; (...) ; Gutfleisch, Oliver

Published 2014 |

[Journal of Magnetism and Magnetic Materials](#)

[29](#)

Times
Cited

[Processing of High Strength Light-Weight Metallic Composites](#)

Skrotzki, Werner ; Eschke, Andy ; (...) ; Eckert, Juergen

Published 2014 |

[Advanced Engineering Materials](#)

[10](#)

Times
Cited

[Inapplicability of the Maxwell relation for the quantification of caloric effects in anisotropic ferroic materials](#)

Niemann, R. ; Heczko, O. ; (...) ; Faehler, S.

Published Jan 2014 |

[International Journal of Refrigeration](#)

[20](#)

Times
Cited

[Ni-Mn-Ga shape memory nanoactuation](#)

Kohl, M. ; Schmitt, M. ; (...) ; Faehler, S.

Published Jan 2014 |

[Applied Physics Letters](#)

[31](#)

Times
Cited

[Phase transformations in ball-milled Ti-40Nb and Ti-45Nb powders upon quenching from the beta-phase region](#)

Zhuravleva, K. ; Boenisch, M. ; (...) ; Gebert, A.

Published Feb 2014 |

[Powder Technology](#)

[30](#)

Times
Cited

[Magnetization dynamics of magnetic domain wall imprinted magnetic films](#)

Hamann, Christine ; Mattheis, Roland ; (...) ; McCord, Jeffrey

Published Feb 2014 |

[New Journal of Physics](#)

[13](#)

Times
Cited

[Deformation and fracture behavior of composite structured Ti-Nb-Al-Co\(-Ni\) alloys](#)

Okulov, I. V. ; Kuehn, U. ; (...) ; Eckert, J.

Published Feb 2014 |

Applied Physics Letters

22

Times
Cited

[Strain response of magnetic order in perovskite-type oxide films](#)

Herklotz, A. ; Biegalski, M. D. ; (...); Doerr, K.

Published Feb 2014 |

Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences

11

Times
Cited

[The Strengthening Effect of Phase Boundaries in a Severely Plastically Deformed Ti-Al Composite Wire](#)

Marr, Tom ; Freudenberger, Jens ; (...); Schultz, Ludwig

Published Mar 2014 |

Metals

3

Times
Cited

[Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Ti-Zr-Si alloy](#)

Abdi, S. ; Khoshkhoo, M. Samadi ; (...); Gebert, A.

Published Mar 2014 |

Intermetallics

42

Times
Cited

[Dynamic recrystallisation and precipitation behaviour of high strength and highly conducting Cu-Ag-Zr-alloys](#)

Bittner, F. ; Yin, S. ; (...); Schultz, L.

Published Mar 2014 |

Materials Science and Engineering: A

41

Times
Cited

[Pathways for novel magnetocaloric materials: A processing prospect](#)

Krautz, Maria ; Hosko, Josef ; (...); Waske, Anja

Published Mar 2014 |

Physica Status Solidi (C) Current Topics in Solid State Physics

10

Times
Cited

[Near-Surface Strain in Icosahedra of Binary Metallic Alloys: Segregational versus Intrinsic Effects](#)

Pohl, Darius ; Wiesenhuetter, Ulrich ; (...); Rellinghaus, Bernd

Published Apr 2014 |

Nano Letters

23

Times
Cited

[The Bain library: A Cu-Au buffer template for a continuous variation of lattice parameters in epitaxial films](#)

Kauffmann-Weiss, S. ; Hamann, S. ; (...); Faehler, S.

Published Apr 2014 |

APL Materials

14

Times
Cited

[Microstructure and mechanical properties of new composite structured Ti-V-Al-Cu-Ni alloys for spring applications](#)

Okulov, I. V. ; Kuehn, U. ; (...); Eckert, J.

Published May 2014 |

[Materials Science and Engineering: A](#)

21

Times

Cited

[Innovative twisting mechanism based on superconducting technology in a ring-spinning system](#)

Hossain, Mahmud ; Abdkader, Anwar ; (...); Schultz, Ludwig

Published May 2014 |

[Textile Research Journal](#)

24

Times

Cited

[Structural and magnetic properties of heat-treated ultrafine single crystalline Nd₂Fe₁₄B particles obtained by ball-milling of dynamic hydrogenation disproportionation desorption and recombination powder](#)

Pal, S. K. ; Schultz, L. ; Gutfleisch, O.

Published May 2014 |

[Scripta Materialia](#)

6

Times

Cited

[Investigation of the strain-sensitive superconducting transition of BaFe_{1.8}Co_{0.2}As₂ thin films utilizing piezoelectric substrates](#)

Trommler, S. ; Haenisch, J. ; (...); Huehne, R.

Published May 2014 |

Journal of Physics: Conference Series

1

Times

Cited

[Pulsed laser deposition of thick BaHfO₃-doped YBa₂Cu₃O₇-delta films on highly alloyed textured Ni-W tapes](#)

Sieger, M. ; Haenisch, J. ; (...); Huehne, R.

Published May 2014 |

Journal of Physics: Conference Series

6

Times

Cited

[Coercivity mechanism in hard magnetic SmCo₅/PrCo₅ bilayers](#)

Patra, A. K. ; Fleischhauer, F. ; (...); Neu, V.

Published May 2014 |

[Journal of Physics D: Applied Physics](#)

5

Times

Cited

[Texture development in Ti/Al filament wires produced by accumulative swaging and bundling](#)

Eschke, A. ; Scharnweber, J. ; (...); Eckert, J.

Published Jun 2014 |

[Acoustic-domain resonance mode in magnetic closure-domain structures: A probe for domain-shape characteristics and domain-wall transformations](#)

Hengst, Claudia ; Wolf, Manfred ; (...); McCord, Jeffrey

Published Jun 2014 |

Physical Review B

12

Times
Cited

[Systematic investigation of Mn substituted La\(Fe_xSi\)\(13\) alloys and their hydrides for room-temperature magnetocaloric application](#)

Krautz, Maria ; Skokov, Konstantin ; (...) ; Gutfleisch, Oliver

Published Jun 2014 |

Journal of Alloys and Compounds

98

Times
Cited

[Localizing sources of acoustic emission during the martensitic transformation](#)

Niemann, R. ; Kopecek, J. ; (...) ; Planes, A.

Published Jun 2014 |

Physical Review B

34

Times
Cited

[Atomic surface diffusion on Pt nanoparticles quantified by high-resolution transmission electron microscopy](#)

Schneider, S. ; Surrey, A. ; (...) ; Rellinghaus, B.

Published Aug 2014 |

Micron

15

Times
Cited

[Impact of magnetization state on the corrosion of sintered Nd-Fe-B magnets for e-motor applications](#)

Moore, M. ; Sueptitz, R. ; (...) ; Gutfleisch, O.

Published Sep 2014 |

Materials and Corrosion/werkstoffe und Korrosion

8

Times
Cited

[Mechanical behavior and tensile/compressive strength asymmetry of ultrafine structured Ti-Nb-Ni-Co-Al alloys with bi-modal grain size distribution](#)

Okulov, I. V. ; Kuehn, U. ; (...) ; Eckert, J.

Published Oct 2014 |

Materials & Design

24

Times
Cited

[Local stress gradients in Ti/Al composite wires determined by two-dimensional X-ray microdiffraction](#)

Eschke, A. ; Zinn, W. ; (...) ; Eckert, J.

Published Oct 2014 |

Materials Science and Engineering: A

1

Times
Cited

[B1-Mobilstor: Materials for Sustainable Energy Storage Techniques - Lithium Containing Compounds for Hydrogen and Electrochemical Energy Storage](#)

Boehme, Bodo ; Minella, Christian Bonatto ; (...) ; Schultz, Ludwig

Published Oct 2014 |

Advanced Engineering Materials

15

Times

Cited

[Magnetic vortex observation in FeCo nanowires by quantitative magnetic force microscopy](#)

Vock, S. ; Hengst, C. ; (...) ; Neu, V.

Published Oct 2014 |

Applied Physics Letters

51

Times

Cited

[IEEE International Magnetics Conference \(Intermag\) 2014 Foreword](#)

Schultz, Ludwig and McHenry, Michael E.

Published Nov 2014 |

IEEE Transactions on Magnetics

0

Times

Cited

[Multifunctional Phenomena in Rare-Earth Intermetallic Compounds With a Laves Phase Structure: Giant Magnetostriction and Magnetocaloric Effect](#)

Tereshina, Irina ; Cwik, Jacek ; (...) ; Schultz, Ludwig

Published Nov 2014 |

IEEE Transactions on Magnetics

31

Times

Cited

[Silicon carbide embedded in carbon nanofibres: structure and band gap determination](#)

Minella, Anja Bonatto ; Pohl, Darius ; (...) ; Rellinghaus, Bernd

Published Nov 2014 |

Physical Chemistry Chemical Physics

7

Times

Cited

[Increased magnetocrystalline anisotropy in epitaxial Fe-Co-C thin films with spontaneous strain](#)

Reichel, L. ; Giannopoulos, G. ; (...) ; Faehler, S.

Published Dec 2014 |

Journal of Applied Physics

39

Times

Cited

[Surface crystallization and magnetic properties of Fe84.3Cu0.7Si4B8P3 soft magnetic ribbons](#)

Lopatina, E. ; Soldatov, I. ; (...) ; Schaefer, R.

Published 2015 |

Acta Materialia

105

Times

Cited

[High magnetic anisotropy of strained epitaxial Fe-Co-X films - buffer induced distortion versus spontaneous strain](#)

Reichel, L. ; Salikhov, R. ; (...) ; Faehler, S.

Published 2015 |

[Ieee Magnetics Conference \(intermag\)](#)

0

Times

Cited

[Extraordinary exchange-bias effects in coupled SmCo5 \(perpendicular\)/CoFeB \(in-plane\) bilayers](#)

Bollero, A. ; Pedrosa, F. ; (...); Miranda, R.

Published 2015 |

IEEE Magnetics Conference (intermag)

0

Times

Cited

[Thick High J\(c\) YBCO Films on ABAD-YSZ Templates](#)

Pahlke, Patrick ; Hering, Michael ; (...); Huehne, Ruben

Published 2015 |

[IEEE Transactions on Applied Superconductivity](#)

14

Times

Cited

[BaHfO₃ artificial pinning centres in TFA-MOD-derived YBCO and GdBCO thin films](#)

Erbe, M. ; Haenisch, J. ; (...); Holzapfel, B.

Published 2015 |

[Superconductor Science and Technology](#)

56

Times

Cited

[Strain Dependence of Critical Fields-Studied on Piezoelectric Substrates](#)

Trommler, Sascha ; Molatta, Sebastian ; (...); Huehne, Ruben

Published 2015 |

[IEEE Transactions on Applied Superconductivity](#)

3

Times

Cited

[Modification of the structural and magnetic properties of granular FePt films by seed layer conditioning](#)

Wicht, S. ; Neu, V. ; (...); Rellinghaus, B.

Published Jan 2015 |

[Journal of Applied Physics](#)

11

Times

Cited

[Bidirectional quantitative force gradient microscopy](#)

Reiche, Christopher F. ; Vock, Silvia ; (...); Muehl, Thomas

Published Jan 2015 |

[New Journal of Physics](#)

17

Times

Cited

[Efficiency of the refinement by deformation twinning in wire drawn single phase copper alloys](#)

Kauffmann, A. ; Freudenberger, J. ; (...); Schultz, L.

Published Jan 2015 |

[Materials Science and Engineering: A](#)

14

Times

Cited

[The effect of surface grain reversal on the AC losses of sintered Nd-Fe-B permanent magnets](#)

Moore, Martina ; Roth, Stefan ; (...); Gutfleisch, Oliver

Published Feb 2015 |

[Journal of Magnetism and Magnetic Materials](#)

5

Times
Cited

Unusually high critical current of clean P-doped BaFe₂As₂ single crystalline thin film

Kurth, F. ; Tarantini, C. ; (...); Iida, K.

Published Feb 2015 |

Applied Physics Letters

26

Times
Cited

Elongated grains in Ni₅W(Ag) RABiTS tapes

Gaitzsch, Uwe ; Rodig, Christian ; (...); Schultz, Ludwig

Published Feb 2015 |

Journal of Alloys and Compounds

4

Times
Cited

Increased critical current density of in-situ MgB₂ wires by Mg deficiency

Haessler, W. ; Rodig, C. ; (...); Schllenga, K.

Published Mar 2015 |

Physica C: Superconductivity and its Applications

7

Times
Cited

Segregation phenomena in Nd-Fe-B nanoparticles

Schmidt, F. ; Pohl, D. ; (...); Rellinghaus, B.

Published Apr 2015 |

Journal of Nanoparticle Research

1

Times
Cited

Lattice relaxation studies in strained epitaxial Fe-Co-C films

Reichel, L. ; Schultz, L. ; Faehler, S.

Published May 2015 |

Journal of Applied Physics

14

Times
Cited

Toward Rare-Earth-Free Permanent Magnets: A Combinatorial Approach Exploiting the Possibilities of Modeling,

Shape Anisotropy in Elongated Nanoparticles, and Combinatorial Thin-Film Approach

Niarchos, D. ; Giannopoulos, G. ; (...); Faehler, S.

Published May 2015 |

JOM: The Journal of the Minerals, Metals, and Materials Society

30

Times
Cited

Superconducting Magnetic Bearing as Twist Element in Textile Machines

Sparing, M. ; Hossain, M. ; (...); Schultz, L.

Published Jun 2015 |

IEEE Transactions on Applied Superconductivity

27

Times
Cited

BaHfO₃-Doped Thick YBa₂Cu₃O₇-delta Films on Highly Alloyed Textured Ni-W Tapes

Sieger, Max ; Haenisch, Jens ; (...); Huehne, Ruben

Published Jun 2015 |

IEEE Transactions on Applied Superconductivity

23

Times

Cited

[Influence of substrate type on transport properties of superconducting FeSe_{0.5}Te_{0.5} thin films](#)

Yuan, Feifei ; Iida, Kazumasa ; (...); Shi, Zhixiang

Published Jun 2015 |

Superconductor Science and Technology

26

Times

Cited

[Replacement and Original Magnet Engineering Options \(ROMEOS\): A European Seventh Framework Project to Develop Advanced Permanent Magnets Without, or with Reduced Use of, Critical Raw Materials](#)

Mcguiness, P. ; Akdogan, O. ; (...); Kobe, S.

Published Jun 2015 |

JOM: The Journal of the Minerals, Metals, and Materials Society

29

Times

Cited

[Anisotropy of iron-platinum-arsenide Ca₁₀\(Pt_nAs₈\)\(Fe_{2-x}Pt_xAs₂\)₅ single crystals](#)

Yuan, F. F. ; Sun, Y. ; (...); Shi, Z. X.

Published Jul 2015 |

Applied Physics Letters

22

Times

Cited

[Field-temperature phase diagrams of freestanding and substrate-constrained epitaxial Ni-Mn-Ga-Co films for magnetocaloric applications](#)

Diestel, A. ; Niemann, R. ; (...); Faehler, S.

Published Jul 2015 |

Journal of Applied Physics

22

Times

Cited

[Epitaxial Ni-Mn-Ga-Co thin films on PMN-PT substrates for multicaloric applications](#)

Schleicher, B. ; Niemann, R. ; (...); Faehler, S.

Published Aug 2015 |

Journal of Applied Physics

23

Times

Cited

[Tuning structure in epitaxial Pb\(Mg_{1/3}Nb_{2/3}\)O₃-PbTiO₃ thin films by using miscut substrates](#)

Mietschke, M. ; Oswald, S. ; (...); Huehne, R.

Published Aug 2015 |

Thin Solid Films

7

Times

Cited

[Effect of rapid quenching on the magnetic state, electrical resistivity and thermomagnetic properties of Gd₃Co](#)

Shishkin, D. A. ; Proshkin, A. V. ; (...); Baranov, N. V.

Published Oct 2015 |

Journal of Alloys and Compounds

5

Times

Cited

[Formation and magnetic properties of the L1\(0\) phase in bulk, powder and hot compacted Mn-Ga alloys](#)

Mix, T. ; Mueller, K. -H. ; (...) ; Woodcock, T. G.

Published Oct 2015 |

Journal of Magnetism and Magnetic Materials

41

Times

Cited

[High field superconducting properties of Ba\(Fe_{1-x}Cox\)₂As₂ thin films](#)

Haenisch, Jens ; Iida, Kazumasa ; (...) ; Holzapfel, Bernhard

Published Nov 2015 |

Scientific Reports

47

Times

Cited

[FINITE ELEMENT ANALYSIS OF THE FORCES DEVELOPED ON LINEAR INDUCTION MOTORS](#)

de Oliveira, Roberto A. H. ; Berger, Dietmar ; (...) ; Ferreira, Antonio C.

Published Nov 2015 |

Brazilian Power Electronics Conference (COBEP)

3

Times

Cited

[Twin-like defects in L1\(0\) ordered tau-MnAl-C studied by EBSD](#)

Bittner, F. ; Schultz, L. ; Woodcock, T. G.

Published Dec 2015 |

Acta Materialia

52

Times

Cited

[From soft to hard magnetic Fe-Co-B by spontaneous strain: a combined first principles and thin film study](#)

Reichel, L. ; Schultz, L. ; (...) ; Rusz, J.

Published Dec 2015 |

Journal of Physics: Condensed Matter

33

Times

Cited

[Magnetostatic nearest neighbor interactions in a Co₄₈Fe₅₂ nanowire array probed by in-field magnetic force microscopy](#)

Vock, S. ; Tschulik, K. ; (...) ; Neu, V.

Published Dec 2015 |

Journal of Applied Physics

10

Times

Cited

[Large pinning forces and matching effects in YBa₂Cu₃O₇-delta thin films with Ba₂Y\(Nb/Ta\)O₆ nano-precipitates](#)

Opherden, Lars ; Sieger, Max ; (...) ; Haenisch, Jens

Published 2016 |

Scientific Reports

70

Times

Cited

Pinning Centers in ISD-MgO Coated Conductors via EB-PVD

Stafford, Benjamin H. ; Sieger, Max ; (...); Schultz, Ludwig

Published 2016 |

IEEE Transactions on Applied Superconductivity

6

Times

Cited

Local Orientation Variations in YBCO Films on Technical Substrates - A Combined SEM and EBSD Study

Pahlke, Patrick ; Sieger, Max ; (...); Huehne, Ruben

Published 2016 |

IEEE Transactions on Applied Superconductivity

10

Times

Cited

Ba₂Y(Nb/Ta)O-6-Doped YBCO Films on Biaxially Textured Ni-5at.% W Substrates

Sieger, Max ; Pahlke, Patrick ; (...); Huehne, Ruben

Published 2016 |

IEEE Transactions on Applied Superconductivity

9

Times

Cited

Reduced J(c) Anisotropy and Enhanced In-Field Performance of Thick BaHfO₃-Doped YBa₂Cu₃O₇-delta Films on ABAD-YSZ Templates

Pahlke, Patrick ; Lao, Mayraluna ; (...); Huehne, Ruben

Published 2016 |

IEEE Transactions on Applied Superconductivity

19

Times

Cited

Designing new biocompatible glass-forming Ti_{75-x}Zr₁₀NbxSi₁₅ (x=0, 15) alloys: corrosion, passivity, and apatite formation

Abdi, Somayeh ; Oswald, Steffen ; (...); Gebert, Annett

Published Jan 2016 |

Journal of Biomedical Materials Research Part B: Applied Biomaterials

TEM investigations on the local microstructure of electrodeposited galfenol nanowires

Pohl, D. ; Damm, C. ; (...); Schloerb, H.

Published Jan 2016 |

Nanotechnology

4

Times

Cited

Ti/Al Multi-Layered Sheets: Differential Speed Rolling (Part B)

Romberg, Jan ; Freudenberger, Jens ; (...); Schultz, Ludwig

Published Feb 2016 |

Metals

4

Times

Cited

Ti/Al Multi-Layered Sheets: Accumulative Roll Bonding (Part A)

Romberg, Jan ; Freudenberger, Jens ; (...); Schultz, Ludwig

Published Feb 2016 |

Metals

9

Times
Cited

[Giant adiabatic temperature change in FeRh alloys evidenced by direct measurements under cyclic conditions](#)

Chirkova, A. ; Skokov, K. P. ; (...); Woodcock, T. G.

Published Mar 2016 |

[Acta Materialia](#)

137

Times
Cited

[Dynamics of Rotating Superconducting Magnetic Bearings in Ring Spinning](#)

Sparng, M. ; Berger, A. ; (...); Schultz, L.

Published Apr 2016 |

[IEEE Transactions on Applied Superconductivity](#)

5

Times
Cited

[Cryogenic System for the Integration of a Ring-Shaped SMB in a Ring-Spinning Tester](#)

Berger, A. ; Hossain, M. ; (...); Schultz, L.

Published Apr 2016 |

[IEEE Transactions on Applied Superconductivity](#)

18

Times
Cited

[Improved hydrogen storage properties of LiBH₄ via nanoconfinement in micro- and mesoporous aerogel-like carbon](#)

Surrey, Alexander ; Minella, Christian Bonatto ; (...); Rellinghaus, Bernd

Published Apr 2016 |

[International Journal of Hydrogen Energy](#)

37

Times
Cited

[Adjusting the phase structure of electrodeposited Fe-Pd films](#)

Konczak, Christoph ; Haehnel, Veronika ; (...); Schloerb, Heike

Published May 2016 |

[Materials Chemistry and Physics](#)

6

Times
Cited

[Structural and ferroelectric properties of 0.9PMN-0.1PT thin films](#)

Mietschke, M. ; Engelhardt, S. ; (...); Huehne, R.

Published May 2016 |

[Ferroelectrics](#)

6

Times
Cited

[Reducing the nucleation barrier in magnetocaloric Heusler alloys by nanoindentation](#)

Niemann, R. ; Hahn, S. ; (...); Faehler, S.

Published Jun 2016 |

[APL Materials](#)

29

Times
Cited

[Electron beam induced dehydrogenation of MgH₂ studied by VEELS](#)

Surrey, Alexander ; Schultz, Ludwig ; Rellinghaus, Bernd

Published Jun 2016 |

Advanced Structural and Chemical Imaging

11

Times

Cited

[Magnetostructural phase transitions and magnetocaloric effect in Tb-Dy-Ho-Co-Al alloys with a Laves phase structure](#)

Tereshina, I. S. ; Chzhan, V. B. ; (...); Schultz, L.

Published Jul 2016 |

[Journal of Applied Physics](#)

16

Times

Cited

[Influence of the polarization anisotropy on the electrocaloric effect in epitaxial PMN-PT thin films](#)

Mietschke, M. ; Chekhonin, P. ; (...); Huehne, R.

Published Sep 2016 |

[Journal of Applied Physics](#)

8

Times

Cited

[Magnetic hysteresis properties of nanocrystalline \(Nd,Ho\)-\(Fe,Co\)-B alloy after melt spinning, severe plastic deformation and subsequent heat treatment](#)

Tereshina, I. S. ; Pelevin, I. A. ; (...); Schultz, L.

Published Oct 2016 |

[Journal of Alloys and Compounds](#)

[Magnetic properties of single nanomagnets: Electron energy-loss magnetic chiral dichroism on FePt nanoparticles](#)

Schneider, Sebastian ; Pohl, Darius ; (...); Rellinghaus, Bernd

Published Dec 2016 |

[Ultramicroscopy](#)

[On the origin of perpendicular magnetic anisotropy in strained Fe-Co\(-X\) films](#)

Reichel, L. ; Edstroem, A. ; (...); Faehler, S.

Published 2017 |

[Journal of Physics D: Applied Physics](#)

[Tailoring Microstructure and Superconducting Properties in Thick BaHfO₃ and Ba₂Y\(Nb/Ta\)O₆ Doped YBCO Films on Technical Templates](#)

Sieger, Max ; Pahlke, Patrick ; (...); Huehne, Ruben

Published 2017 |

[IEEE Transactions on Applied Superconductivity](#)

[Deposition and properties of Fe\(Se,Te\) thin films on vicinal CaF₂ substrates](#)

Bryja, Hagen ; Huehne, Ruben ; (...); Haenisch, Jens

Published 2017 |

[Superconductor Science and Technology](#)

[Mathematical modeling, simulation and validation of the dynamic yarn path in a superconducting magnet bearing \(SMB\) ring spinning system](#)

Hossain, M. ; Telke, C. ; (...); Schultz, L.

Published 2017 |

Textile Research Journal

Micromagnetic investigation of domain and domain wall evolution through the spin-reorientation transition of an epitaxial NdCo₅ film

Seifert, Marietta ; Schultz, Ludwig ; (...); Neu, Volker

Published Mar 2017 |

New Journal of Physics

Normal and abnormal grain growth in fine-grained Nd-Fe-B sintered magnets prepared from He jet milled powders

Bittner, F. ; Woodcock, T. G. ; (...); Katter, M.

Published Mar 2017 |

Journal of Magnetism and Magnetic Materials

Multislice simulations for in-situ HRTEM studies of nanostructured magnesium hydride at ambient hydrogen pressure

Surrey, Alexander ; Schultz, Ludwig ; Rellinghaus, Bernd

Published Apr 2017 |

Ultramicroscopy

Alloying with a few atomic percent of Ga makes MnAl thermodynamically stable

Mix, T. ; Bittner, F. ; (...); Woodcock, T. G.

Published Apr 2017 |

Acta Materialia

Tilted BaHfO₃ nanorod artificial pinning centres in REBCO films on inclined substrate deposited-MgO coated conductor templates

Stafford, B. H. ; Sieger, M. ; (...); Schultz, L.

Published May 2017 |

Superconductor Science and Technology

The impact of dislocations on coercivity in L1(0)-MnAl

Bittner, F. ; Freudenberger, J. ; (...); Woodcock, T. G.

Published May 2017 |

Journal of Alloys and Compounds

Growth, microstructure and thermal transformation behaviour of epitaxial Ni-Ti films

Kauffmann-Weiss, S. ; Hahn, S. ; (...); Faehler, S.

Published Jun 2017 |

Acta Materialia

Design and Validation of Switchable Tracks for Superconducting Levitation Systems

Espenhahn, Tilo ; Berger, Dietmar ; (...); Nielsch, Cornelius

Published Jun 2017 |

IEEE Transactions on Applied Superconductivity

Influence of Substrate Tilt Angle on the Incorporation of BaHfO₃ in Thick YBa₂Cu₃O₇-delta Films

Sieger, Max ; Pahlke, Patrick ; (...); Huehne, Ruben

Published Jun 2017 |

IEEE Transactions on Applied Superconductivity

Role of twin and anti-phase defects in MnAl permanent magnets

Bance, Simon ; Bittner, Florian ; (...); Schrefl, Thomas

Published Jun 2017 |

Acta Materialia

[The effect of the microstructure on the antiferromagnetic to ferromagnetic transition in FeRh alloys](#)

Chirkova, A. ; Bittner, F. ; (...) ; Woodcock, T. G.

Published Jun 2017 |

Acta Materialia

[Nucleation and growth of hierarchical martensite in epitaxial shape memory films](#)

Niemann, R. ; Backen, A. ; (...) ; Faehler, S.

Published Jun 2017 |

Acta Materialia

[Enhanced spin-orbit coupling in tetragonally strained Fe-Co-B films](#)

Salikhov, R. ; Reichel, L. ; (...) ; Wiedwald, U.

Published Jul 2017 |

Journal of Physics: Condensed Matter

[Controlling particle properties in YBa₂Cu₃O₇ \(-\) \(delta\) nanocomposites by combining PLD with an inert gas condensation system](#)

Sparing, M. ; Reich, E. ; (...) ; Holzapfel, B.

Published Oct 2017 |

Superconductor Science and Technology

[Reversible tuning of magnetocaloric Ni-Mn-Ga-Co films on ferroelectric PMN-PT substrates](#)

Schleicher, Benjamin ; Niemann, Robert ; (...) ; Faehler, Sebastian

Published Oct 2017 |

Scientific Reports

[Magnetic viscosity of L1\(0\) structured Mn-Ga and Mn-Al alloys](#)

Volegov, A. S. ; Mueller, K. -H. ; (...) ; Woodcock, T. G.

Published Nov 2017 |

Journal of Magnetism and Magnetic Materials

[Electronic structure and magnetism of epitaxial Ni-Mn-Ga\(-Co\) thin films with partial disorder: a view across the phase transition](#)

Schleicher, B. ; Klar, D. ; (...) ; Gruner, M. E.

Published Nov 2017 |

Journal of Physics D: Applied Physics

[The role of the inhomogeneous demagnetizing field on the reversal mechanism in nanowire arrays](#)

Vock, S. ; Hengst, C. ; (...) ; Neu, V.

Published Nov 2017 |

Journal of Physics D: Applied Physics

[The role of the interface distribution in the decomposition of metastable L1\(0\)-Mn₅₄Al₄₆](#)

Bittner, F. ; Schultz, L. ; Woodcock, T. G.

Published Dec 2017 |

Journal of Alloys and Compounds

[Influence of artificial pinning centers on structural and superconducting properties of thick YBCO films on ABAD-YSZ templates](#)

Pahlke, Patrick ; Sieger, Max ; (...); Huehne, Ruben

Published Apr 2018 |

Superconductor Science and Technology

[Thick Secondary Phase Pinning-Enhanced YBCO Films on Technical Templates](#)

Sieger, Max ; Pahlke, Patrick ; (...); Huehne, Ruben

Published Jun 2018 |

IEEE Transactions on Applied Superconductivity

[Simulation of Force Generation Above Magnetic Tracks for Superconducting Levitation Systems](#)

Espenhahn, Tilo ; Berger, Dietmar ; (...); Huehne, Ruben

Published Jun 2018 |

IEEE Transactions on Applied Superconductivity

[Epitaxial hard magnetic SmCo5 MFM tips a new approach to advanced magnetic force microscopy imaging](#)

Neu, Volker ; Vock, Silvia ; (...); Schultz, Ludwig

Published Sep 2018 |

Nanoscale

[Levitation force measurement on a switchable track for superconducting levitation systems](#)

Espenhahn, Tilo ; Berger, Dietmar ; (...); Huehne, Ruben

Published Dec 2018 |

Superconductor Science and Technology

Editorial

Buschow, Jurgen ; Schultz, Ludwig ; Pecharsky, Vitalij

Published Jun 2020 |

Journal of Alloys and Compounds

[Magnetocaloric properties and specifics of the hysteresis at the first-order metamagnetic transition in Ni-doped FeRh](#)

Chirkova, A. M. ; Skokov, K. P. ; (...); Gutfleisch, O.

Published Jun 2021 |

Physical Review Materials

[Correlation between plasticity and fragility in Mg-based bulk metallic glasses with modulated heterogeneity \(vol 104, 023520, 2008\)](#)

Park, E. S. ; Lee, J. Y. ; (...); Schultz, L.

Published Jun 2021 |