http://www.flogen.org/sips2016/yagi.php

List of Original Publications

1 The Rate-Determining Steps of The Reduction of Iron- Oxide Pellet (in Japanese)
Akira Moriyama, Jun-ichiro Yagi and Iwao Muchi
Journal of The Japan Institute of Metals, Vol.29 (1965), No.5, pp.528-534

2 Reaction Kinetics in The Blast Furnace (in Japanese)
Iwao Muchi, Jun-ichiro Yagi, Kenji Tamura and Akira Moriyama
Journal of The Japan Institute of Metals, Vol.30 (1966), No.9, pp.826-831

3 Mathematical Model of A Blast Furnace in The Zone above The Tuyere Level (in Japanese)
Iwao Muchi, Kenji Tamura, Jun-ichiro Yagi and Akira Moriyama
Journal of The Japan Institute of Metals, Vol. 30 (1966), No.12, pp.1109-1114

4 Analysis Based on Chemical Reaction Engineering for The Upper Zone of Blast Furnaces above The Tuyere Level (in Japanese)
Iwao Muchi, Kenji Tamura, Jun-ichiro Yagi and Akira Moriyama
Journal of The Japan Institute of Metals, Vol. 30 (1966), No.12, pp.1115-1120

5 Behaviors of Sulfur and Silicon in Blast Furnace (in Japanese)
Iwao Muchi, Akira Moriyama, Jun-ichiro Yagi and Kenji Tamura
Journal of The Japan Institute of Metals, Vol. 31 (1967), No.2, pp.97-103

6 Mathematical Model of Blast Furnace Supplemented The Decomposition Rate of Limestone and The Molar Fractions of CO, CO_2, N_2 and H_2 in Top Gas (in Japanese)
Jun-ichiro Yagi, Kenji Tamura and Iwao Muchi
Journal of The Japan Institute of Metals, Vol.31 (1967), No.2, pp.103-109

7 High Pressure Operation of The Blast Furnace (in Japanese)
Jun-ichiro Yagi and Iwao Muchi
Journal of The Japan Institute of Metals, Vol.31 (1967), No.4, pp.1284-1289

8 Application of The Reactions Concerning H_2 and Steam and The Temperature of Top Gas to

The Blast-Furnace Model (in Japanese)
Jun-ichiro Yagi, Hiroaki Nishio, Keiichi Sasaki and Iwao Muchi
Journal of The Japan Institute of Metals, Vol.31 (1967), No.6, pp.711-717

9 Analysis Concerning Situations in Blast Furnace Under Arbitrary Operating Conditions (in Japanese)
Iwao Muchi, Jun-ichiro Yagi, Keiichi Sasaki and Hiroaki Nishio (in Japanese)
Tetsu-to-Hagane (Japanese-Language Journal of Iron and Steel Institute of Japan), Vol.53 (1967), No.11, pp.1184-1187

10 Theoretical Analysis of Iron Oxide Pellet Reduction in A Moving Bed (in Japanese)
Jun-ichiro Yagi, Akira Moriyama and Iwao Muchi
Journal of The Japan Institute of Metals, Vol.32 (1968), No.3, pp.209-213

11 Theoretical Investigation on The Blast Furnace Operations with The Aid of Mathematical Model (in Japanese)
Jun-ichiro Yagi, Keiichi Sasaki and Iwao Muchi
Tetsu-to-Hagane, Vol.54 (1968), No.9, pp.1019-1031

12 Effect of The Change in Operating Conditions on The Static Characteristics of Blast Furnace (in Japanese)
Jun-ichiro Yagi, Keiichi Sasaki, Iwao Muchi
Tetsu-to-Hagane, Vol.54 (1968), No.9, pp.1032-1037

13 Improved Mathematical Model for Estimating Process Variables in Blast Furnace (in Japanese)
Jun-ichiro Yagi and Iwao Muchi
Journal of The Japan Institute of Metals, Vol.32 (1968), No.12, pp.1316-1321
(English Version) Trans. Iron & Steel Inst. Japan, Vol.10 (1970), No.3, pp.181-187

14 Rate of Hydrogen-Reduction of The Iron Oxide Pellets Pre-reduced to Wustite (in Japanese)
Reijiro Takahashi, Jun-ichiro Yagi and Yasuo Omori
Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.26 (1970), No.2, pp.83-94

15 Effect of The Change in Parameters on The Longitudinal Distributions of Process Variables, The Production Rate and The Carbon Ratio in Blast Furnace (in Japanese)

Jun-ichiro Yagi and Iwao Muchi

Tetsu-to-Hagane, Vol.56 (1970), No.2, pp.169-177

16 Theoretical Estimations on the Longitudinal Distribution of Process Variables in Blast Furnace and on its Productivity

J. Yagi and I. Muchi

Trans. Iron & Steel Inst. Japan, Vol.10 (1970), No.4, pp.392-405

17 Heat and Mass Transfer in The Reduction of Iron Oxide Pellet with Hydrogen (in Japanese)

Reijiro Takahashi, Jun-ichiro Yagi and Yasuo Omori

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.27 (1971), No.1-2, pp.175-186

(English Version) Trans. Iron and Steel Inst. Japan, Vol.14 (1974), No.1, pp.26-33

18 Process Simulation of Nonisothermal Fixed Bed for Noncatalytic Reaction (in Japanese)

Jun-ichiro Yagi, Reijiro Takahashi and Yasuo Omori

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.27 (1971), No.1-2, pp.187-196

(English Version) Trans. Iron and Steel Inst. Japan, Vol.14 (1974), No.1, pp.17-25

19 Study on The Reduction Process of Iron Oxide Pellets in Isothermal Fixed Bed (in Japanese)

Jun-ichiro Yagi, Reijiro Takahashi and Yasuo Omori

Tetsu-to-Hagane, Vol.57 (1971), No.10, pp.1453-1460

(English Version) Science Reports of Research Institutes, Tohoku University, A23 (1971), No.1, pp.31-47

20 Rate of Reduction of Iron Oxide Pellets with Hydrogen (in Japanese)

Reijiro Takahashi, Jun-ichiro Yagi, Yasuo Omori

Tetsu-to-Hagane, Vol.57 (1971), No.10, pp.1597-1605

(English Version of) Science Reports of Research Institutes, Tohoku University, A23 (1971), No. 1, pp.9-30

21 Investigation on the Test Methods for Reduction Strength of Iron Ores (I)

---Test of Reduction Strength of Sinter--- (in Japanese)

Toshikatsu Terui, Reijiro Takahashi, Jun-ichiro Yagi and Yasuo Omori

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University,

Vol.29 (1973), No. 1, pp.37-49

22 Evaluation of Mass Transfer Coefficient Through Gaseous Phase During the Reduction of Iron Oxide Pellet with Hydrogen (in Japanese)

Reijiro Takahashi, Jun-ichiro Yagi and Yasuo Omori

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.30 (1974), No.2, pp.109-117

23 In Situ Measurement of Effective Diffusivities of Porous Iron Reduced From Iron Oxide Pellets with Hydrogen (in Japanese)

Reijiro Takahashi, Akira Kani, Jun-ichiro Yagi and Yasuo Omori

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.31 (1975), No.2, pp.98-108

24 Study on Heat Transfer Between Gas and Solid in Packed Bed and Heat Loss Through the Reactor Wall (in Japanese)

Ichiro Shigaki, Jun-ichiro Yagi, Reijiro Takahasi, Yasuo Omori and Reijiro Nishida

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.32 (1976), No.1, pp.32-39

25 A Mathematical Model of Lead Blast Furnace - Mathematical Analysis on the Operation of Lead Blast Furnace (1st Report) (in Japanese)

Jun-ichiro Yagi

Journal of The Mining and Metallurgical Institute of Japan, Vol.93 (1977), No.11, pp.889-894

26 An Analysis of Lead Blast Furnace Operation Based on A Mathematical Model

---Mathematical Analysis on the Operation of Lead Blast Furnace (2nd Report)--- (in Japanese)

Jun-ichiro Yagi

Journal of The Mining and Metallurgical Institute of Japan, Vol.93 (1977), No.12, pp.963-968

27 A Mathematical Formulation for the Reduction of Iron Oxide Pellets in Moving Beds with Non-uniform Gas and Solid Flow

J. Yagi and J. Szekely

Trans. Iron and Steel Inst. Japan, Vol.17 (1977), No.10, pp.569-575

28 Computed Results for the Reduction of Iron Oxide Pellets in Moving Beds with Non-uniform Gas and Solids Flow

J. Yagi and J. Szekely

Trans. Iron and Steel Inst. Japan, Vol.17 (1977), No.10, pp.576-585

29 A Theoretical Analysis on Gas Flow and Heat Transfer in Packed Beds with Fused and Unfused Layers (in Japanese)

Takashi Sugiyama, Jun-ichiro Yagi, Yasuo Omori

Tetsu-to-Hagane, Vol.64 (1978), No.2, pp.1676-1684

30 Reduction of Iron Oxide Pellets in Moving Bed

T. Yanagiya, J. Yagi and Y. Omori

Ironmaking and Steelmaking, Vol.6 (1979), No.3, pp.93-100

31 The Effect of Gas and Solids Maldistribution on the Performance of Moving-bed Reactors: The Reduction of Iron Oxide Pellets with Hydrogen

J. Yagi and J. Szekely

American Institute of Chemical Engineers Journal, vol.25 (1979), No.5, pp.800-810

32 Mechanism of Heat Transfer in Packed Beds Having Fused and Unfused Layers (in Japanese)

Takashi Sugiyama, Jun-ichiro Yagi and Yasuo Omori

Tetsu-to-Hagane, Vol.65 (1979), No.3, pp.341-348

33 Two-dimensional Mathematical Analysis on Gas Flow and Heat Transfer in Blast Furnace by The Application of Finite Element Method (in Japanese)

Jun-ichiro Yagi, Kanji Takeda and Yasuo Omori

Tetsu-to-Hagane, Vol.66 (1980), No.13, pp.1888-1897

34 Measurement of Effective Diffusivities of Porous Iron Layer Reduced from Iron Oxide Pellets with Hydrogen by Using The Canister (in Japanese)

Reijiro Takahashi, Jun-ichiro Yagi, Yasuo Omori and Yoshikazu Takahashi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.3 (1983), No.1, pp.14-24

35 Mathematical Modeling of Sintering Process Considering Influence of Changes in Void Fraction and Apparent Particle Size in the Bed on Pressure Drop (in Japanese)

Eiki Kasai, Jun-ichiro Yagi and Yasuo Omori

Tetsu-to-Hagane, Vol.70 (1984), No.11, pp.1567-1574

36 Reduction of Cement-bonded Cold Pellets Containing Char by Using a Pressurized Moving

Bed Reactor (in Japanese)

Reijiro Takahashi, Masao Ishii and Jun-ichiro Yagi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol. 41(1985), No.2, pp.109-118

37 Gas Flow Analysis in Blast Furnace by Using Finite Element Method with Quadratic Elements (in Japanese)

Jun-ichi Kudoh and Jun-ichiro Yagi

Tetsu-to-Hagene, Vol.72 (1986), No.15, pp.2032-2039

38 Operation and Simulation of Pressurized Shaft Furnace for Direct Reduction

R. Takahashi, Y. Takahashi, J. Yagi and Y. Omori

Trans. Iron and Steel Inst. Japan, Vol.26 (1986), No.9, pp.765-774

39 Dynamic Holdup of Irrigated Packed Bed Accompanying Gas Evolution by Reaction between Liquid and Solid (in Japanese)

Katsuhiro Tanaka, Toshikatsu Terui, Yasuo Omori and Jun-ichiro Yagi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol. 42(1986), No.1, pp.63-70

40 Heat Loss and Heat Balance for The Moving Bed Operations (in Japanese)

Jun-ichiro Yagi, Reijiro Takahashi and Tomohiro Akiyama

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.42 (1986), No.1, pp.91-99

41 Reduction Rates of Cement-Bonded Cold Iron Ore Pellets (in Japanese)

Reijiro Takahashi, D. Mora Navarro and Jun-ichiro Yagi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol.43 (1987), No.1, pp.32-42

42 A Mathematical Model of Blast Furnace in Terms of Finite Element Method and Method of Characteristics (in Japanese)

Jun-ichi Kudoh and Jun-ichiro Yagi

Tetsu-to-Hagane, 73 (1987), No.15, pp.2020-2027

43 Exergy Evaluation on The Pellets Production and Direct Reduction Processes for The Fired and Cement Bonded Pellets (in Japanese)

Tomohiro Akiyama, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.73 (1987), No.15, pp.2108-2115

(English Version) ISIJ International, Vol.29 (1989), No.6, pp.447-454

44 Drying and Heat Transfer Analysis of Nonfired Pellets Including Combined Water (in Japanese)

Tomohiro Akiyama, Yoshio Ashizawa, Reijiro Takahashi and Jun-ichiro Yagi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol. 44 (1988), No.2, pp.191-202

45 Exergy Analysis of Conventional Ironmaking, Direct Reduction-Electric Furnace and Smelting Reduction Systems (in Japanese)

Tomohori Akiyama and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.74 (1988), No.12, pp.2270-2277

46 Computer Simulation of Gas Flow in A Sludge Melting Furnace by The Body Fitted Coordinate method (in Japanese)

Jia-bing Wang and Jun-ichiro Yagi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol. 45 (1989), No.2, pp.117-131

47 Measurement of Thermal Diffusivity of Fired and Nonfired Pellets by Laser Flash Method (in Japanese)

Hiromichi Ohta, Tomohiro Akiyama, In-kook Suh, Reijiro Takahashi, Jun-ichiro Yagi and Yoshio Waseda

Tetsu-to-Hagane, Vol.75 (1989), No.10, pp.1877-1882

48 Distribution of Gas Flow Rate in A Packed Bed of Spherical Particles (in Japanese)

Tomohiro Akiyama and Jun-ichiro Yagi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol. 46 (1990), No.1, pp.32-42

49 Catalytic Activity of Reduced Iron Pellets for Water Gas Shift Reaction (in Japanese)

Fengman Shen, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.76 (1990), No.4, pp.523-530

50 Measurement of Heat Transfer Rate between Particle and Fluid in Counter-current Moving

Beds (in Japanese)

Tomohiro Akiyama, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol76 (1990), No.6, pp.848-855

(English Version) ISIJ International, Vol. 33 (1993), No. 6, pp.703-710

51 Gas Flow Analysis in The Sludge Melting Furnace with Packed Bed (in Japanese)

Jia-bing Wang, Reijiro Takahashi and Jun-ichiro Yagi

Journal of Chemical Engineering Jpn, Vol.16 (1990), No.4, pp.723-731

52 Strength and Reducibility of Nonfired Pellets Made from The Mixture of Hematite and Magnetite Ores (in Japanese)

Reijiro Takahashi, Masao Ishii, Rogelio Balvantin Oluguin, Jun-ichiro Yagi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol. 47 (1991), No.1-2, pp.41-48

53 Model Experiment of Particle Movement and Numerical Analysis of Flow and Heat Transfer in A Sludge-Melting Furnace (in Japanese)

Jia-bing Wang, Reijiro Takahashi and Jun-ichiro Yagi

Journal of Chemical Engineering Jpn, Vol.17 (1991), No.1, pp.179-186

54 Heat Transfer Simulation on Drying Processes of Non-fired Pellets Containing Combined Water in the Moving Bed Reactor

T. Akiyama, R. Takahashi and J. Yagi

ISIJ International, Vol.31 (1991), No.1, pp.24-31

55 Pressure Loss and Hold-up Powders for Gas-Powder Two Phase Flow in Packed Beds

Koichiro Shibata, Masakata Shimizu, Shin-ichi Inaba, Reijiro Takahashi and Jun-ichiro Yagi

ISIJ International, Vol.31 (1991), No.5, pp.434-439

56 Thermal Conductivities of Dense Iron Oxides (in Japanese)

Tomohiro Akiyama, Gaku Ogura, Hiromichi Ohta, Reijiro Takahashi, Yoshio Waseda and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol. 77 (1991), No.2, pp.231-235

57 One-Dimensional Flow Characteristics of Gas-Powder Two Phase Flow in Packed Beds (in Japanese)

Koichiro Shibata, Masakata Shimizu, Shin-ichi Inaba, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.77 (1991), No.2, pp.236-243

58 An Analysis on Exergy Consumption and CO_2 Discharge in Ironmaking Systems (in Japanese)
Tomohira Akiyama and Jun-ichiro Yagi
Tetsu-to-Hagane, Vol.77 (1991), No.8, pp.1259-1266

59 Two-dimensional Analysis on The Flow Characteristics of Powders around Cohesive Zone in A Blast Furnace (in Japanese)
Koichro Shibata, Masakata Shimizu, Shin-ichi Inaba, Reijiro Takahashi and Jun-ichiro Yagi
Tetsu-to-Hagane, Vol.77 (1991), No.10, pp.1267-1273

60 Kinetics of Water Gas Shift Reaction with Catalysts of Metallic Iron and Nickel (in Japanese)
Fengman Shen, Reijiro Takahashi and Jun-ichiro Yagi
Tetsu-to-Hagane, Vol.77 (1991), No.10, pp.1577-1584

61 Simulation Model of The Gas-Liquid Flows in The packed Bed (in Japanese)
Jiabing Wang, Reijiro Takahashi and Jun-ichiro Yagi
Tetsu-to-Hagane, Vol.77 (1991), No.10, pp.1585-1592

62 Science on Melting Furnace of Sewage Sludge (Coke Packed Bed Type Melting Process of Sewage Sludge) (in Japanese)
Junichiro Yagi
Mizu (Journal of Water), Vol.33 (1991), No.10, pp.25-33

63 Storage and Release of Heat in A Single Spherical Capsule Containing Phase Change Material of High Melting Point (in Japanese)
Tomohiro Akiyama, Yoshio Ashizawa and Jun-ichiro Yagi
Transactions of the Japan Society of Mechanical Engineers, Series B, Vol.57 (1991), No.533, pp.284-291
(English Version) Heart Transfer Japanese Research, Vol.21 (1992), pp.199-217

64 Gas Flow, Heat Transfer and Exergy Analysis of Packed Bed for Heat Storage by Latent Heat (in Japanese)
Tomohiro Akiyama, Yoshio Ashizawa, Reijiro Takahashi and Jun-ichiro Yagi
Transactions of the Japan Society of Mechanical Engineers, Series B, Vol.57 (1991), No.540, pp.2768-2775

65 Adsorption Equation on Surface of Solid Catalysts and Rate Equation of reaction with

Adsorption (in Japanese)

Atsushi Muramatsu, Fengman Shen, Reijiro Takahashi and Jun-ichiro Yagi

Bulletin of The Research Institute of Mineral Dressing and Metallurgy, Tohoku University, Vol. 47 (1991), No.1-2, pp.130-140

66 Oxidation kinetics of Cement-Bonded Natural Ilmenite Pellets

Kang Sun, Masao Ishii, Reijiro Takahashi and Jun-ichiro Yagi

ISIJ International, Vol.32 (1992), No.4, pp.489-495

67 Measurement and Modeling of Thermal Conductivity for Dense Iron Oxide and Porous Iron Ore Agglomerates in Stepwise Reduction

T. Akiyama, H. Ohta, R. Takahashi, Y. Waseda and J. Yagi

ISIJ International, Vol.32 (1992), No.7, pp.829-837

68 Nonisothermal Behavior of the Oxidation of Natural Ilmenite Pellet

K. Sun, R. Takahashi and J. Yagi

ISIJ International, Vol.32 (1992), No.9, pp.953-961

69 Effect of Burden Distribution Pattern on Gas Flow in a Packed Bed

Jizhong Chen, Tomohori Akiyama and Jun-ichiro Yagi

ISIJ International, Vol.32 (1992), No.12, pp.1259-1267

70 Measurement of Surface Area for Dense Iron and Nickel Catalysts by Electrolytic Solution Method (in Japanese)

Fengman Shen, Toshio Sato, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.78 (1992), No.1, pp.42-49

71 Effective Thermal Conductivities of Products in The Stepwise Reduction of Agglomerated Iron Ore (in Japanese)

Tomohiro Akiyama, Takashi Fukutani, Hiromichi Ohta, Reijiro Takahashi, Yosio Waseda and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.78 (1992), No.6, pp.870-877

72 Effectiveness Factor of Porous Reduced Iron Pellets in Water Gas Shift Reaction

Fengman Shen, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.78 (1992), No.7, pp.990-997

73 A Simulation Model on Fluid Flow and Heat Transfer in Packed Bed with Melting Phenomena

(in Japanese)

Jiabing Wang, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.78 (1992), No.7, pp.1124-1131

74 Reaction Rate of Methane Formation for The Catalyst of Reduced Iron Pellets (in Japanese)

Fengman Shen, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.78 (1992), No.11, pp.1658-1665

75 Simultaneous Analysis of Flow, Heat Transfer and Mass Transfer in A Sludge Melting Furnace (in Japanese)

Jiabing Wang, Reijiro Takahashi and Jun-ichiro Yagi

Journal of Chemical Engineering Jpn, Vol.18 (1992), No.5, pp.659-668

76 Kinetics of the Oxidation and Reduction of Synthetic Ilmenite

K. Sun, R. Takahashi and J. Yagi

ISIJ International, Vol.33 (1993), No.5, pp.523-528

77 Modeling of Solid Flow in Moving Bed

J. Chen, T. Akiyama, H. Nogami, J. Yagi and H. Takahashi

ISIJ International, Vol.33 (1993), No.6, pp.664-671

78 Feasibility Study on Blast Furnace Ironmaking System Integrated with Methanol Synthesis for Reduction of Carbon Dioxide Emission and Effective Use of Exergy

T. Akiyama, H. Sato, A. Muramatsu and J. Yagi

ISIJ International, Vol.33 (1993), No.11, pp.1136-1143

79 Methanol Synthesis from Blast Furnace Off Gas

A. Muramatsu, H. Sato, T. Akiyama and J. Yagi

ISIJ International, Vol.33 (1993), No.11, pp.1144-1149

80 Effect of Pre-Oxidation and Reduction on The Reaching of Ilmenite Ore by Sulfuric Acid (in Japanese)

Reijiro Takahashi, Sermphun Placksiri and Jun-ichiro Yagi

Journal of The Society of Materials Engineering of Japan, Vol.6 (1993), No.2, pp.54-64

81 Behavior of Powders in a Packed Bed with Lateral Inlets

J. Chen, T. Akiyama, H. Nogami and J. Yagi

ISIJ International, Vol.34 (1994), No.2, pp.133-139

82 Prediction of Dynamic Two-Dimensional Behavior of Fine Powder Injected from Lateral Inlet into the Packed Bed

J. Chen, H. Nogami, T. Akiyama, R. Takahashi and J. Yagi

Advances in Multiphase Flow 1995, pp.619-626, Ed by A. Serizawa, T. Fukano and J. Bataille, [Elsevier], 1995

83 Reaction Rates of Oxidized Iron-Scrap Briquette with Pulverized Coke in Nitrogen Atmosphere (in Japanese)

Xinghe Zhang, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.81 (1995), No.11, pp.1043-1048

84 Effect of Auxiliary Fuel on Reduction of Carbon Dioxide Emission from Ironworks System Integrated with Methanol Synthesis (in Japanese)

Hirotaka Sato, Tomohiro Akiyama, Atsushi Muramatsu, Tadao Sugimoto and Jun-ichiro Yagi

Journal of the Japan Petroleum Institute, Vol.38 (1995), No.6, pp.390-398

85 Combustion Synthesis of Magnesium Nickel

T. Akiyama, H. Isogai and J. Yagi

International Journal of Self-Propagating High Temperature Synthesis, Vol.4 (1995), No.1, pp.69-77

86 Hydrogen Reduction of Natural Ilmenite in a Fluidized Bed

K. Sun, T. Akiyama, R. Takahashi and J. Yagi

ISIJ International, Vol.35 (1995), No.4, pp.360-366

87 Heat Transfer Analysis of a Single Cylinder and a Packed Bed of Carbonaceous Material in a High-Frequency Induction Furnace (in Japanese)

Mingkai Niu, Tomohiro Akiyama, Reijiro Takahashi and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.81 (1995), p.111-116

88 Storage of Thermal Energy for Effective use of Waste Heat from Industries

J. Yagi and T. Akiyama

Journal of Materials Processing and Technology, Vol.48 (1995), pp.793-804

89 Microencapsulation of Mg-Ni Hydrogen Storage Alloy

T. Akiyama, T. Fukutani, H. Ohta, R. Takahashi, J. Yagi and Y. Waseda

AIChE J., Vol.41 (May, 1995), No.5, pp.1349-1352

90 Experimental and Parametric Analysis of Heat Transfer within Two-layered Packed Beds of Iron and Graphite in a High-frequency Induction Furnace (in Japanese)
Mingkai Niu, Tomohiro Akiyama, Reijiro Takahashi and Jun-ichiro Yagi
Tetsu-to-Hagane, Vol.82 (1996), No.2, pp.105-110

91 Development of Measuring Method and a Fixed Quantity for Wetted Area between Liquid and Particles in a Packed Bed for Ironmaking (in Japanese)
Mingkai Niu, Tomohiro Akiyama, Reijiro Takahashi and Jun-ichiro Yagi
Tetsu-to-Hagane, Vol.82 (1996), No.8, pp.647-652

92 Liquid Holdup and Electric Resistivity in an Irrigated Packed Bed (in Japanese)
Mingkai Niu, Tomohiro Akiyama, Reijiro Takahashi and Jun-ichiro Yagi
Tetsu-to-Hagane, Vol.8 (1996), No.9, pp.737-742

93 Thermal Diffusivity Measurement of $Fe_{1-x}O$ by the Devised Laser-Flash Method for Small Samples (in Japanese)
Hiromichi Ohta, Tomohiro Akiyama, Kimohito Hatori, Jun-ichiro Yagi and Yoshio Waseda
Tetsu-to-Hagane, Vol.82 (1996), No.9, pp.795-797

94 Development of Mathematical Model of High-Frequency Induction Furnace with Coke Packed-Beds of Scrap Melting (in Japanese)
Mingkai Niu, Tomohiro Akiyama, Reijiro Takahashi and Jun-ichiro Yagi
Tetsu-to-Hagane, Vol.82 (1996), No.11, pp.893-898

95 Heat Storage Rate of Magnesium Nickel Hydride
T. Akiyama, T. Fukutani, R. Takahashi and J. Yagi
Materials Transactions, JIM, Vol.37 (1996), No.5, pp.1014-1020

96 Kinetics of Hydrogen Absorption and Desorption of Magnesium Nickel Alloy
T. Akiyama, T. Tasaki, R. Takahashi and J. Yagi
Intermetallics, Vol.4 (1996), No.8, pp.659-662

97 Cold Modeling Experiment and Numerical Simulation of the Flow and Temperature Distribution in an Arc Plasma Chamber (in Japanese)
Hiroshi Nogami, A. M. Fudolig, Jun-ichiro Yagi
Bulletin of The Research Institute of Mineral Dressing and Mettallurgy, Tohoku University, Vol.52 (1996), No.1-2, pp.64-73,

98 Combustion Synthesis of Mg_2Ni and Mg_2NiH_4

Hiromichi Isogai, Tomohiro Akiyama and Jun-ichiro Yagi

Journal of The Japan Institute of Metals, Vol.60 (1996), No.3, pp.338-344

99 Kinetics of Mg_2Ni Combustion Synthesis (in Japanese)

Hiromichi Isogai, Tomohiro Akiyama and Jun-ichiro Yagi

Journal of The Japan Institute of Metals, Vol.60 (1996), No.7, pp.640-646

100 Mathematical Modeling of Mg_2Ni Combustion Synthesis (in Japanese)

Hiromichi Isogai, Tomohiro Akiyama and Jun-ichiro Yagi

Journal of The Japan Institute of Metals, Vol.60 (1996), No.7, pp.647-652

101 Optimization of Microencapsulating and Compacting Conditions for Hydrogen Storage Alloy

Tomohiro Akiyama, Tomoaki Tasaki, Reijiro Takahashi and Jun-ichiro Yagi

Journal of Alloys and Compounds, Vol.236 (1996), pp.171-176

102 Frequency Characteristics of Induction Melting Furnace with Coke Packed-Bed (in Japanese)

Tomohiro Akiyama, Mingkai Niu, Reijiro Takahashi and Jun-ichiro Yagi

Thermal Science and Engineering, Vol.4 (1996), No.4, pp.1-10

103 Heat Storage of Magnesium Nikel Hydride

T. Akiyama, T. Fukutani, R. Takahashi and J. Yagi

Materials Transactions, JIM, Vol.37 (1996), No.5, pp.1014-1020

104 Flow Characteristics and Temperature Distribution of an Impinging Jet Confined in a Chamber

M. Fudolig, H. Nogami and J. Yagi

J. Chemical Engineering of Japan, Vol.29 (1996), No.3, pp.537-540

105 Reduction of the Wall Effect in a Packed Bed by a Hemispherical Lining

M. Niu, T. Akiyama, R. Takahashi and J. Yagi

American Institute of Chemical Engineers Journal, Vol. 42(1996), No.4, pp.1181-1186

106 Modeling of the Flow, Temperature and Concentration Fields in an Arc Plasma Reactor with Argon-Nitrogen Atmosphere

M. Fudolig, H. Nogami and J. Yagi

ISIJ International, Vol.36 (1996), No.9, pp.1222-1228

107 Numerical Simulation of Flow and Temperature Distribution in a Transferred Argon Arc Plasma Enclosed in a Chamber

M. Fudolig, H. Nogami and J. Yagi

Journal of Chemical Engineering of Japan, Vol.29 (1996), No.3, pp.508-515

108 A Mathematical Model of Four Phase Motion and Heat Transfer in the Blast Furnace

Peter Richard Austin, Hiroshi Nogami, and Jun-ichiro Yagi

ISIJ International, Vol.37 (1997), No.5, pp.458-467

109 Direct Conversion of Blast Furnace Gas to Dimethyl Ether over Cu-Zno-Ga_2O_3 Hybrid Catalyst: Optimum Mass Ratio of the Catalyst

S. Machida, T. Akiyama, Y. Ashizawa, A. Muramatsu and J. Yagi

ISIJ International, Vol.37 (1997), No.5 pp.531-535

110 Prediction of Surface Temperature on Metal Beads Subjected to Argon-Hydrogen Transferred Arc Plasma Impingement

Agustin M. Fudolig, Hiroshi Nogami, Jun-ichiro Yagi, Kouji Mimura and Minoru Isshiki

ISIJ International, Vol.37 (1997), No.6, pp.623-629

111 Numerical Analysis of the Flow Characteristics and Temperature Distribution in Metal Beads Subjected to Transferred Arc Plasma Impingement

Agustin M. Fudolig, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.37 (1997), No.6, pp.630-636

112 Prediction of Generation Rates in "Reactive Arc Plasma" Ultrafine Powder Production Process

Agustin M. Fudolig, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.37 (1997), No.7, pp.641-646

113 A mathematical Model for Blast Furnace Reaction Analysis Based on the Four Fluid Model

P. R. Austin, H. Nogami and J. Yagi

ISIJ International, Vol.37 (1997), No.8, pp.748-755

114 Rate of Methane-steam Reforming Reaction on the Surface of Molten BF Slag -for Heat Recovery from Molten Slag by Using a Chemical Reaction

E. Kasai, T. Kitajima, T. Akiyama, J. Yagi and F. Saito

ISIJ International, Vol.37 (1997), No.10, pp.1031-1036

115 Encapsulation of Phase Change Material by Means of Electroplating (in Japanese)

Tomohiro Akiyama, Jun-ichiro Yagi, Yasushi Watanabe and Shuichi Miura

Journal of Chemical Engineering, Jpn, Vol.23 (1997), No.4, pp.591-593

116 Numerical Analysis of Transport Phenomena within Moving Bed Type Coke Gasifiers (in Japanese)

Hiroshi Nogami, Jun-ichiro Yagi, Reiji Mezaki and Hiroaki Nagai

Journal of Chemical Engineering, Jpn, Vol.23 (1997), No.6, pp.804-810

117 Morphology of Combustion-Synthesized Mg_2Ni (in Japanese)

Hideki Kohno, Tomohiro Akiyama, Sabro Kobayashi and Jun-ichiro Yagi

Journal of The Japan Institute of Metals, Vol.61 (1997), No.2, pp.166-170

118 Carburization Rate into Solid Iron at CO-CO_2 Atmosphere (in Japanese)

Xinghe Zhang, Reijiro Takahashi, Tomohiro Akiyama and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol83 (1997), No.5, pp.229-304

119 Formation of Methanol and Dimethyl Ether from a Model Gas of Blast Furnace By-product Gas (in Japanese)

Hirotaka Sato, Atsushi Muramatsu Tomohiro Akiyama and Jun-ichiro Yagi

Journal of the Japan Petroleum Institute, Vol40 (1997), No.5, pp.427-432

120 Hydriding Combustion Synthesis for the Production of Hydrogen Storage Alloy

T. Akiyama, H. Isogai and J. Yagi

Journal of Alloys and Compounds, Vol.252 (1997), pp.L1-L4

121 Development of $Cu/ZnO/Al_2O_3$ Catalyst for Dimethyl Ether Synthesis from CO-CO_2-H_2 Mixture

T. Akiyama, S. Machida, H. Sato, A. Muramatsu and J. Yagi

ISIJ International, Vol.38 (1998), No.1, pp.93-97

122 Prediction of Blast Furnace Performance with Top Gas Recycling

Peter Richard Austin, H. Nogami and J. Yagi

ISIJ International, Vol.38 (1998), No.3, pp.239-245

123 Analysis of Actual Blast Furnace Operations and Evaluation of Static Liquid Holdup Effects by the Four Fluid Model

Peter Richard Austin, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.38 (1998), No.3, pp.246-255

124 Computational Investigation of Scrap Charging to the Blast Furnace

Peter Richard Austin, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.38 (1998), No.7, pp.697-703

125 Methodology to Evaluate Reduction Limit of Carbon Dioxide Emission and Minimum Exergy Consumption for Ironmaking

T. Akiyama and J. Yagi

ISIJ International, Vol.38 (1998), No.8, pp.896-903

126 Effect of Dimethy1 Ether Synthesis on Methanol-and Iron-making Integrated System

Tomohiro Akiyama, Satoshi Machida and Jun-ichiro Yagi

ISIJ International, Vol.38 (1998), No.10, pp.1140-1146

127 Effect of hydrogen pressure on the combustion synthesis of Mg_2NiH_4

Liquan Li, Tomohiro Akiyama and Jun-ichiro Yagi

Intermetallics, 7(1998), No.2, pp.201-205

128 Mathematical Model of Combustion Synthesis

Tomohiro Akiyama, Hiromichi Isogai and Jun-ichiro Yagi

American Institute of Chemical Engineers Journal, 44(1998), No.3, pp.695-700

129 Reaction Kinetics of SHS of an Intermetallic Compound-Magnesium Nickel

T. Akiyama, H. Isogai and J. Yagi

International Journal of Self-Propagating High Temperature Synthesis, 7(1998), pp.1140-1146

130 Exergy Analysis of Methanol Production System (in Japanese)

Satoshi Machida Tomohiro Akiyama and Jun-ichiro Yagi

Journal of Chemical Engineering, Jpn, Vol.24 (1998), No.3, pp.462-470

131 In Situ X-ray Diffraction Study of the Hydriding Combustion Synthesis of Mg_2NiH_4

Liquan Li, T. Akiyama, T. Kabutomori, K. Terao and J. Yagi

Journal of Alloys and Compounds, 281(1998), pp.175-180

132 Reaction Rate of Combustion Synthesis of an Intermetallic Compound

T. Akiyama, H. Isogai and J. Yagi

Powder Technology, 95(1998), No.8, pp.175-181

133 Combustion Synthesis of Cu‐ZnO Catalyst for Methanol Production (in Japanese)

Tomomi Yamaguchi, Tomohiro Akiyama and Jun-ichiro Yagi

Journal of The Japan Institute of Metals, Vol.63 (1999), No.3, pp.341-344

134 Hydriding and Dehydriding Behavior of the Product in Hydriding Combustion Synthesis of

Mg_2NiH_4

L. Li, T. Akiyama, T. Kabutomori, T. Terao and J. Yagi

Journal of Alloys and Compounds 287(1999), pp.98-103

135 Morphology of a Combustion-Synthesized Intermetallic Compound

T. Akiyama, H. Kohno and J. Yagi

International Journal of Self-Propagating High-Temperature Synthesis, Vol.8 (1999), No.2, pp.177-186

136 Effect of Preheating on Combustion Synthesis (in Japanese)

Nobuyuki Ishikawa, Tomohiro Akiyama and Jun-ichiro Yagi

Transactions of the Japan Society of Mechanical Engineers, (Series B), Vol.65 (1999), No.636, pp.2875-2880

137 Reaction Mechanism of Hydriding Combustion Synthesis of Mg_2NiH_4

Liquan Li, Tomohiro Akiyama and Jun-ichiro Yagi

Intermetallics Vol.7 (1999), No.6, pp.671-677

138 Effects of Hydrogen Pressure and Cooling Rate on the Hydriding Combustion Synthesis of Mg_2NiH_4 studied by Thermogravimetry and X-ray Diffraction

Liquan Li, Tomohiro Akiyama, Toshiki Kabutomori and Jun-ichiro Yagi

Materials Transactions, JIM, Vol.40 (October, 1999), No.10, pp.1079-1083

139 Production of Hydrogen Storage Alloy of Mg_2NiH_4 by Hydriding Combustion Synthesis in Laboratory Scale

L. Li, T. Akiyama and J. Yagi

Journal of Materials Synthesis and Processing, Vol.8, (2000), No.1, pp.7-14

140 Preparation of Mg-Ni Hydrogen Storage Alloys by Combustion Synthesis (in Japanese)

Satoshi Nagashima, Tomohiro Akiyama and Jun-ichiro Yagi

Journal of The Japan Institute of Metals, Vol.63 (1999), No.12, pp.1555-1560

(English Version) Journal of Materials Synthesis and Processing, Vol.8 (2000), No.1, pp.7-14

141 Encapsulation of Phase Change Materials for Storage of High Temperature Waste Heat

T. Akiyama and J. Yagi

High Temperature Materials and Processes, Vol.19 (2000), Nos.3-4, pp.219-222

142 Hydrogen Storage Alloy of Mg_2NiH_4 Hydride Produced by Hydriding Combustion Synthesis

from Powder of Mixture Metal

L. Li, T. Akiyama and J. Yagi

Journal of Alloys and Compounds, Vol.308 (2000), pp.98-103

143 Thermodynamic Analysis of Thermochemical Recovery of High Temperature Wastes

Tomohiro Akiyama, Koichi Oikawa, Taihei Shimada, Eiki Kasai and Jun-ichiro Yagi

ISIJ International, Vol.40 (2000), No.3, pp.286-291

144 Sophisticated Multi-phase Multi-flow Modeling of the Blast Furnace

Sami Alex Zaimi, Tomohiro Akiyama, Jean-Bernard Guillot and Jun-ichiro Yagi

ISIJ International, Vol.40 (2000), No.4, pp.322-331

145 Validation of a Blast Furnace Solid Flow Model Using Reliable 3-D Experimental Results

Sami Alex Zaimi, Tomohiro Akiyama, Jean-Bernard Guillot and Jun-ichiro Yagi

ISIJ International, Vol.40 (2000), No.4, pp.332-341

146 Transient Mathematical Model of Blast Furnace Based on Multi-fluid Concept, with Application to High PCI Operation

Jose Adilson de Castro, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.40 (2000), No.7 pp.637-646

147 Observation of Molten Slag Surface under Gas Impingement X-ray Computed Tomography

Taihei Shimada, Tomohiro Akiyama, Eiki Kasai and Jun-ichiro Yagi

ISIJ International, Vol.40 (2000), No.10, pp.958-963

148 Mathematical Analysis of Multi-Smelter for Waste Materials (in Japanese)

Xinghe Zhang, Reijiro Takahashi, Jun-ichiro Yagi, Tadakazu Ohnishi and shoichi Kume

Journal of High Temperature Soceity, Vol.26 (2000), No.6, pp.305-316

149 Hidriding Combustion Synthesis Mechanism of Mg-X(X=Fe,Co) Hydrogen Storage Alloy (in Japanese)

Takahisa Ohtsuji, Tomohiro Akiyama and Jun-ichiro Yagi

Journal of The Japan Institute of Metals, Vol.64 (2000), No.8, pp.651-655

150 Hydriding Combustion Synthesis of Mg_2FeH_6 and Mg_2CoH_5 (in Japanese)

Takahisa Ohtsuji, Tomohiro Akiyama and Jun-ichiro Yagi

Journal of The Japan Institute of Metals, Vol.64 (2000), No.8, pp.656-661

151 Numerical Analysis of Multiple Injection of Pulverized Coal, Reproduced Iron Ore and Flux

with Oxygen Enrichment to the Blast Furnace

Jose Adilson de Castro, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.41 (2001), No.1, pp.18-24

152 Reduction Rate of Cement Bonded Laterite Briquette with CO-CO_2 Gas

Hadi Purwanto, Taihei Shimada, Reijiro Takahashi and Jun-ichiro Yagi

ISIJ International, Vol.41 (2001), Supplement (March), pp.S31-S36

153 Feasibility of Rotary Cup Atomizer for Slag Granulation

Toshio Mizuochi, Tomohiro Akiyama, Taihei Shimada, Eiki Kasai and Jun-ichiro Yagi

ISIJ International, Vol.41 (2001), No.12, pp.1423-1428

154 Activity and capacity of hydrogen storage alloy Mg_2NiH_4 produced by hydrating combustion synthesis

Liquan Li, Tomohiro Akiyama and Jun-ichiro Yagi

Journal of Alloys and Compounds, Vol.316 (2001), pp.118-123

155 Numerical Simulation of the Moving Bed Furnace for Reduction and Melting of Oxidized Iron-scrap Briquette Containing Coke Breeze (in Japanese)

Xinghe Zhang, Reijiro Takahashi Hiroshi Nogami and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol 87 (2001), No.5, pp.410-418

156 Operating Conditions for Hydriding Combustion Synthesis of Pure Mg_2NiH_4

Tomohiro Akiyama, Toshimitsu Negishi, Katsushi Saito, Liquan Li and Jun-ichiro Yagi

Materials Transactions, Vol.42 (2001), No.8, pp.1748-1752

157 Numerical Analysis of Multi-Smelter for Melting Metal Waste

Xinghe Zhang, Reijiro Takahashi and Jun-ichiro Yagi

Materials Transactions, Vol.42 (2001), No.12, pp.2449-2505

158 Activation Behaviors of Mg_2NiH_4 at Different Hydrogen Pressures in Hydriding Combustion Synthesis

Liquan Li, Tomohiro Akiyama and Jun-ichiro Yagi

International Journal of Hydrogen Energy 26(2001), pp.1035-1040

159 Three-Dimensional Multiphase Mathematical Modeling of the Blast Furnace Based on the Multi-fluid Model

Jose Adilson de Castro, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.42 (2002), No.1, pp.44-52

160 Development of PCM for Recovering High Temperature Waste Heat and Utilization for Producing Hydrogen by Reforming Reaction of Methane

Nobuhiro Maruoka, Kazushi Sato, Jun-ichiro Yagi and Tomohiro Akiyama

ISIJ International, Vol.42 (2002), No.2, pp.215-219

161 Lowering of Grinding Energy and Enhancement of Agglomerate Strength by Dehydration of Indonesian Laterite Ore

Hadi Purwanto, Taihei Shimada, Reijiro Takahashi and Jun-ichiro Yagi

ISIJ International, Vol.42 (2002), No.3, pp.243-247

162 Numerical Investigation of Simultaneous Injection of Pulverized Coal and Natural Gas with Oxygen Enrichment to the Blast Furnace

J. A. Castro, H. Nogami and J. Yagi

ISIJ International, Vol.42 (2002), No.11, pp.1203-1211

163 Numerical Simulation of the Moving Bed Furnace for Iron Scrap Melting

X. Zhang, R. Takahashi, H. Nogami and J. Yagi

ISIJ International, Vol.42 (2002), Supplement, pp.S23-S27

164 Recovery of Nickel from Selectively Reduced Laterite Ore by Sulphuric Acid Reaching

Hadi Purwanto, Taihei Shimada, Reijiro Takahashi and Jun-ichiro YAGI

ISIJ International, Vol. 43(2003), No.2, pp.181-186

165 Progressos recentes no modelamento matematico do alto-forno

J. A. Castro, H. Nogami and J. Yagi

Metalurgia & Materiais, Vol.59, (2003), No.539, pp.709-712

166 Recovery of Magnetite from Leached Laterite-residue by Magnetic Separation

H. Purwanto, B. Jeyadevan, R. Takahashi and J. Yagi

ISIJ International, Vol.43 (2003), No.12, pp.1919-1926

167 Numerical Simulation on High-temperature Gasification and Melting Furnace for Solid Waste (in Japanese)

Xiaping Liang, Hiroshi Nogami, Jun-ichiro Yagi, Shinichi Isozaki and Tsuneo Matsudaira

Tetsu-to-Hagane, Vol.90 (2004), No.2, pp.29-35

168 Numerical Analysis of Static Holdup of Fine Particles in Blast Furnace

Sungging Pintowantoro, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.44 (2004), No.2, pp.304-309

169 Feasibility Study of Hydrogen Generator with Molten Slag Granulation

T. Akiyama, T. Mizouchi, J. Yagi and H. Nogami

Steel Research International, Vol.75 (2004), No.2, pp.122-127

170 Numerical Investigation on Effects of Deadman Structure and Powder Properties on Gas and Powder Flows in Lower Part of Blast Furnace

Hiroshi Nogami, Peter Richard Austin, Jun-ichiro Yagi and Kazuyoshi Yamaguchi

ISIJ International, Vol.44 (2004), No.3, pp.500-509

171 Numerical Analysis on Charging Carbon Composite Agglomerates into Blast Furnace

Mansheng Chu, Hiroshi Nogami and Jun-ichiro Yagi

ISIJ International, Vol.44 (2004), No.3, pp.510-517

172 Effect of Volatile Matter of Pulverized Coal on Reducing Agents Rate of Blast Furnace and Combustion Behavior of Coal Mixture (in Japanese)

Kazuya Kunitomo, Takashi Orimoto, Tsunehisa Nishimura Masaaki Naito and Jun-ichiro Yagi

Tetsu-to-Hagane, Vol.90 (2004), No.4, pp.190-197

173 Numerical Analysis on Injection of Hydrogen Bearing Materials into Blast Furnace

M. Chu, H. Nogami and J. Yagi

ISIJ International, Vol.44 (2004), No.5, pp.801-808

174 Exergy Analysis of Charcoal Charging Operation of Blast Furnace

Hiroshi Nogami, Jun-ichiro Yagi and Ronaldo Santos Sampaio

ISIJ International, Vol.44 (2004), No.10, pp.1646-1652

175 Computer Simulation of Pulverized Charcoal Injection into the Mini Blast Furnace Process (Simulacao Computacional da Injecao de carvao Puverixado nas Ventaneiras de Mini Altos-Fornos)

J. A. Castro, A. J. Silva, H. Nogami and J. Yagi

Tecnologia em Metalurgia e Materiais, Sao Paulo, Vol. 2(2004), No. 2, pp.59-62, Out.-Dez

176 An Application of Bingham Model to Viscous Fluid Modeling of Solid Flow in Moving Bed

H. Nogami and J. Yagi

ISIJ International, Vol.44 (2004), No.11, pp.1826-1834

177 Cold-model Experiments on Deadman Renewal Rate due to Sink-Float Motion of Hearth Coke Bed

H. Nogami, K. Toda, S. Pintowantoro and J. Yagi

ISIJ International, Vol.44 (2004), No.12, pp.2127-2133

178 Numerical Analysis on Blast Furnace Performance under Operation with Top Gas Recycling and Carbon Composite Agglomerates Charging

M. Chu, H. Nogami and J. Yagi

ISIJ International, Vol.44 (2004), No.12, pp.2159-2167

179 Effect of Solution Loss Reaction on Coke Degradation Rate under Sheer Stress

H. Nogami, M. Takatoku and J. Yagi

ISIJ International, Vol.44 (2004), No.12, pp.2144-2149

180 Tridimensional Multiphase Mathematical Model of Dioxin Generation within Sintering Bed (Modelo Matematico Tridimensional Multi-Fasico Da Geracao De Dioxinas No Leito De Sinterizacao)

Jose Adilson de Castro, Alexandre Jose da Silva, Hiroshi Nogami and Jun-ichiro Yagi

Tecnologia em Metalurgia e Materiais, Sao Paulo, Vol. 2(2005), No. 1, pp.45-49, Jul.-Set

181 Evaluation of the Performance of the Blast Furnace Operating with Self-Reducing Pellet Using the Computational Simulation (Avaliacao do Desempenho do Alto-Forno com a Utilizacao de Pelota Auto-Redutora, Atraves da Simulacao Computacional)

Jose Adilson de Castro, Anderson Willian de Sauza Baltazar, Alexandre Jose da Silva, Jose Carlos D'Abeu and Jun-ichiro Yagi

Tecnologia em Metalurgia e Materiais, Sao Paulo, Vol. 2(2005), No. 2, pp.45-50, Out.-Dez

182 Blast Furnace Ironmaking System Using Partially Reduced Iron Ore Reduced by an Energy Source with Low Carbon Content

Kazuya Kunitomo, Yasushi Takamoto, Masaaki Naito and Jun-ichiro Yagi

Journal of The Japan Institute of Energy, Vol.84 (2005), No.2, pp.126-133

183 Mathematical Model of the Over-micron and Nano-scale Powders Accumulation in a Coke Fixed-Bed Filter

Morgana de Avila Ribas, Hiroshi Nogami, Reijiro Takahashi and Jun-ichiro Yagi

ISIJ International, Vol. 45 (2005), No.3, pp.303-311

184 Numerical Analysis of Blast Furnace Operations with Top Gas Recycling
Hiroshi Nogami, Mansheng Chu and Jun-ichiro Yagi
Revue de Metallurgie, No.3, Vol.102 (2005), pp.189-197

185 Numerical Analysis on Behavior of Unburned Char and Fine Coke in Blast Furnace
Hiroshi Nogami, Sungging Pintowantoro and Jun-ichiro Yagi
ISIJ International, Vol. 45 (2005), No.10, pp.1489-1495
(Tetsu-to-Hagane, Vol. 92(2006), No.12, pp.948-954 (in Japanese))

186 Multi-Dimensional Transient Mathematical Simulator of Blast Furnace Process Based on Multi-Fluid and Kinetic Theory
Hiroshi Nogami, Mansheng Chu and Jun-ichiro Yagi
Computers and Chemical Engineering, Vol. 29 (2005), pp2438-2448

187 Numerical Simulation of Innovative Operation of Blast Furnace Based on Multi-Fluid Model
CHU Man-sheng, YANG Xue-feng, SHEN Feng-man, YAGI Jun-ichiro, NOGAMI Hiroshi
Journal of Iron and Steel Research, International, Vol.13 (2006), No.6, pp.8-15

188 Numerical Analysis on Blast Furnace Performance with Novel Feed Material by Multi-Dimensional Simulator Based on Multi-Fluid Theory
H. Nogami, M. Chu and J. Yagi
Applied Mathematical Modelling, Vol. 30 (2006), pp.1212-1228

189 Analysis on Material and Energy Balance of Ironmaking Systems on Blast Furnace Operations with Metallic Charging, Top Gas Recycling and Natural Gas Injection
Hiroshi Nogami, Jun-ichiro Yagi, Shin-ya Kitamura and Peter Richard Austin
ISIJ International, Vol. 46 (2006), No.12, pp.1759-1766

190 Numerical Analysis of Blast Furnace Performance Under Charging Iron-Bearing Burden With High Reducibility
CHU Man-sheng, GUO Xian-zhen, SHEN Feng-man, YAGI Jun-ichiro, NOGAMI Hiroshi
Journal of Iron and Steel Research, International, Vol.14 (2007), No.2, pp.13-19

191 Numerical Modeling of Reaction and Flow Characteristics in a Blast Furnace with Consideration of Layered Burden
Kwangheok Yang, Sangmin Choi, Jinkyung Chung and Jun-ichiro Yagi
ISIJ International, Vol.50 (2010), No.7, pp. 972-980

192 Dripping Liquid Metal Flow in the Lower Part of a Blast Furnace

Hongjong Jin, Sangmin Choi, Jun-ichiro Yagi and Jinkyung Chung

ISIJ International, Vol. 50 (2010), No.7, pp.1023-1031

193 Numerical Evaluation of Blast Furnace Performance under Top Gas Recycling and Lower Temperature Operation

Mansheng Chu and Jun-ichiro Yagi

Steel Research International, Vol.81 (2010), pp.1043-1050

194 A Six-phases 3-D Model to Study Simultaneous Injection of High Rates of Pulverized Coal and Charcoal into the Blast Furnace with Oxygen Enrichment

Jose Adilson de Castro, Alexandre Jose da Silva, Yasushi Sasaki and Jun-ichiro Yagi

ISIJ International, Vol. 51 (2011), No.5, pp.748-758

195 Fundamental Study on Carbon Composite Iron Ore Hot Briquette Used as Blast Furnace Burden

CHU Man-sheng, LIU Zheng-gen, WANG Zhao-Cai and YAGI Jun-ichiro

Steel Research International, Vol.82 (2011), No.5, pp.521-528

196 Prediction of Pre-reduction Shaft Furnace with Top Gas Recycling Technology Aiming to Cut Down CO_2 Emission

Shengli Wu, Jian Xu, Jun-ichiro YAGI, Xinying GUO and Lihua ZHANG

ISIJ International, Vol. 51 (2011), No.8, pp.1344-1352

197 Three Dimensional Mathematical Model of the Iron Ore Sintering Process Based on Multiphase Theory

Jose Adilson de Castro, Yasushi Sasaki and Jun-ichiro Yagi

Materials Research (Ibero-american Journal of Materials), Vol.15 (2012), pp848-858.

198 Analysis of Synthetic Natural Gas Injection into Charcoal Blast Furnace

Elisa Pinto da Rocha, Vagner Silva Guilherme, Jose Adilson de Castro, Yasushi Sazaki and Jun-ichiro Yagi

Journal of Materials Research and Technology, Vol.2 (2013), No.3, pp.255-262

199 Analysis of the Combined Injection of Pulverized Coal and Charcoal into Large Blast Furnace

Jose Adilson de Castro, Giselle de Mattos Araujo, Izabel de Oliveira da Mota , Yasushi Sasaki, Jun-ichiro Yagi

Journal of Materials Research and Technology, Vol.2 (2013), No.4, pp.308-314

200 Mathematical Modeling and Exergy Analysis of Blast Furnace Operation With Natural Gas Injection

Tong-Lai Guo, Man-Sheng Chu, Zheng-Gen Liu, Tue Tang and Jun-ichiro Yagi

Steel Research International, Vol.84 (2013), Issue 4, pp. 333-343

201 Measurement of Three-Dimensional Raceway Structure in Small Scale Cold Model by X-ray Computed Tomography (in Japanese)

Hiroshi NOGAMI, Hideki KAWAI, Jun-ichiro YAGI

Tetsu-to-Hagane, Vol. 100 (2014), No.2, pp.256-261

202 Formation of Vertically Inverse Pressure Distribution Due to Packing Structure of Near Wall Region of Blast Furnace

Muneyuki KAMATA, Kenji KUMAGAI, Hideki KAWAI, Jun SUZUKI, Jun-ichiro YAGI, Shinroku MATSUZAKI and Hiroshi NOGAMI

ISIJ International, Vol.55 (2015), No.6, pp.1327-1335

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