



Prof. Alain TRESSAUD

Scientific Publications, Review papers and book chapters, Patents, Organization of Scientific events

SCIENTIFIC PUBLICATIONS

1966

1 - Sur une nouvelle famille d'oxychlorures. Les oxychloro-aluminates alcalins.

J. PORTIER, A. TRESSAUD et P. HAGENMULLER

Bull. Soc. Chim., **2**, 551, 1966.

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2 - Les systèmes MF-FeF₂ (M = Li, Na, Rb, Tl).

A. TRESSAUD, R. De PAPE, J. PORTIER et P. HAGENMULLER

C.R. Acad. Sc., **266**, 984, 1968.

3 - Classification structurale de divers composés fluorés du fer et de cations monovalents. Applications à leurs propriétés magnétiques.

J. PORTIER, A. TRESSAUD, R. De PAPE et P. HAGENMULLER

Mat. Res. Bull., **3**, 433, 1968.

4 - Sur de nouvelles séries de bronzes fluorés de composition M_xFeF₃ (M = Na, Rb, Tl).

R. De PAPE, A. TRESSAUD et J. PORTIER

Mat. Res. Bull., **3**, 753-758, 1968.

5 - Propriétés magnétiques du composé CsFeF₃.

J. PORTIER, A. TRESSAUD, R. PAUTHENET et P. HAGENMULLER

C.R. Acad. Sc., **267**, 1329, 1968.

6 - Structures et propriétés magnétiques de quelques composés de formule MFeF₃ (M = Na, K, Rb, Cs, NH₄, Tl).

J. PORTIER, A. TRESSAUD, J.L. DUPIN et R. De PAPE

Mat. Res. Bull., **4**, 45, 1969.

7 - Etude cristallographique et magnétique d'un fluorure inédit de type trirutile.

J. PORTIER, A. TRESSAUD, R. De PAPE et P. HAGENMULLER

C.R. Acad. Sc., **267**, 1711, 1968.

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8 - Structure cristalline des variétés basse et haute température du fluoerrite de rubidium RbFeF₄.

A. TRESSAUD, J. GALY et J. PORTIER

Bull. Soc. fr. Minér. Cristallogr., **92**, 335, 1969.

9 - Sur quelques composés fluorés à structure rutile et trirutile.

J. PORTIER, A. TRESSAUD, F. MENIL, J. CLAVERIE, R. De PAPE et P. HAGENMULLER

J. Solid State Chem., **1**, 100, 1969.

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10 - Les hexafluoferrites M_3FeF_6 ($M = Li, Na, K, Rb, Cs, Ag, Tl, NH_4$): étude radiocristallographique, spectroscopique et magnétique.

A. TRESSAUD, J. PORTIER, S. SHEARER-TURRELL, J.L. DUPIN et P. HAGENMULLER
J. Inorg. Nucl. Chem., **32**, 2179, 1970.

11 - Les perovskites fluorées $AgMeF_3$ ($Me = Mg, Mn, Co, Ni, Cu, Zn$).

J. PORTIER, A. TRESSAUD et J.L. DUPIN
C.R. Acad. Sc., **270**, 216, 1970.

12 - Sur quelques nouveaux composés fluorés de thallium trivalent.

J. GRANNEC, A. TRESSAUD et J. PORTIER
Bull. Soc. Chim. Fr., (5), 1719, 1970.

13 - Les systèmes $MF-FeF_3$ ($M = Li, Na, K, Rb, Cs, Tl, NH_4$).

A. TRESSAUD, J. PORTIER, R. De PAPE et P. HAGENMULLER
J. of Solid State Chem., **2**, 269, 1970.

14 - Les pyrochlores lacunaires $M_xFeF_3 \square$ ($M = R, Cs, Tl, NH_4$).

A. TRESSAUD, R. De PAPE et J. PORTIER
C.R. Acad. Sc., **270**, 726, 1970.

15 - Les bronzes fluorés M_xFeF_3 ($M = Na, K, Rb, Cs, Tl, NH_4$).

A. TRESSAUD, R. De PAPE, J. PORTIER et P. HAGENMULLER
Bull. Soc. Chim. Fr. (10), 3411, 1970.

16 - Sur quelque nouveaux trirutiles fluorés.

J. PORTIER, F. MENIL et A. TRESSAUD
Mat. Res. Bull., **5**, 503, 1970.

17 - Sur de nouveaux composés fluorés ferrimagnétiques à structure wébérite.

R. COSIER, A. WISE, A. TRESSAUD, J. GRANNEC, R. OLAZCUAGA et J. PORTIER
C.R. Acad. Sc., **271**, 142, 1971.

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18 - Structural studies of iron hexafluorides : I.R. Spectra of M_3FeF_6 ($M = Li, Na, K, Rb, Cs, Ag, Tl$).

S. SHEARER-TURRELL, A. TRESSAUD and J. PORTIER
J. Mol. Struct., **7**, 289, 1971.

19 - Sur la composition de l'os.

A. TRESSAUD et P. BONJEAN
C. R. Séances Soc. Biol., 165, 1291, 1971.

20 - Application des mesures magnétiques aux problèmes structuraux des fluorures des éléments de transition.

A. TRESSAUD et J. PORTIER
"Séminaire de Chimie de l'Etat Solide", Masson (1971).

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21 - Détermination de la structure magnétique de $LiFe_2F_6$ par diffraction neutronique.

M. WINTENBERGER, A. TRESSAUD et F. MENIL
Solid State Com., **10**, 739, 1972.

22 - Etude par effet Mössbauer des composés de type "Bronzes fluorés" M_xFeF_3 ($M = K, Rb, Cs, NH_4$).

N.N. GREENWOOD, F. MENIL et A. TRESSAUD
J. Solid State Chem., **5**, 402, 1972.

23 - Preparative methods for solid fluorine compounds.

R. BOUGON, J. EHRETSMANN, J. PORTIER and A. TRESSAUD
"Preparative Methods in Solid State Chemistry", Academic Press, New-York, 1972.

24 - Propriétés magnétiques des composés de type "Bronzes fluorés" M_xFeF_3 ($M = K, Rb, Cs$).

A. TRESSAUD, F. MENIL, R. GEORGES, J. PORTIER et P. HAGENMULLER
Mat. Res. Bull., **7**, 1339, 1972 (**Linus PAULING Issue**).

25 - Etude magnétique des composés $Na_5M_3F_{14}$ ($M = V, Fe, Co$) de type chiolithé.

H. McKENZIE, J.M. DANCE, A. TRESSAUD, J. PORTIER et P. HAGENMULLER
Mat. Res. Bull., **7**, 673, 1972.

- 26 - Sur une nouvelle famille de composés fluorés $\text{Li}+\text{M}_2+\text{N}_3+\text{F}_6$ ($\text{M} = \text{Mg, Mn, Fe, Co, Ni}$; $\text{N} = \text{Fe, In}$).
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C.R. Acad. Sc., **275**, 495, 1972.
- 26 bis- Fluorides, oxyfluorides of the transition elements, A. TRESSAUD, K. LEARY, N. BARTLETT,
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- 27 - Non-stoichiométrie dans le système $\text{FeF}_3\text{-WO}_3$.
A. TRESSAUD, J.M. DANCE, F. MENIL, J. PORTIER et P. HAGENMULLER
Z. anorg. allg. Chem., **399**, 231, 1973.
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- 29 - Crystal structure of rhodium pentafluoride.
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Inorg. Chem., **12**, 2640, 1973.
- 30 - Filiation structurale de quelques phases de formule AlIBIIIIF_5 .
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- 31 - Crystal chemistry and magnetic properties of CrIIBIIIIF_5 compounds.
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P. BONJEAN et A. TRESSAUD
C.R. Acad. Sc., **278**, 463, 1974.
- 33 - Synthèse, étude cristallographique et magnétique d'un nouveau fluorure de manganèse Mn_2F_5 .
A. TRESSAUD et J.M. DANCE
C.R. Acad. Sc., **278**, 463, 1974.
- 34 - Sur un nouveau type structural de tétrafluorures d'éléments de transition.
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- 35 - The tetrafluorides of iridium, rhodium and palladium.
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Mat. Res. Bull., **9**, 1219, 1974.

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- 39 - Croissance cristalline, polymorphisme et propriétés magnétiques de $\text{Na}_5\text{Cr}_3\text{F}_{14}$.
J.P. MIRANDAY, G. FERREY, C. JACOBONI, J.M. DANCE, A. TRESSAUD et R. DE PAPE
Revue Chim. Minér., **12**, 187, 1975.
- 40 - Etude par diffraction neutronique de l'antiferromagnétisme de MnAlF_5 .
M. WINTENBERGER, J.M. DANCE et A. TRESSAUD
Solid State Commun., **17**, 185, 1975.

41 - Les perovskites hexagonales Cs₂MnCoF₆ et Cs₂MnNiF₆. Propriétés ferrimagnétiques de Cs₂MnCoF₆ et Cs₂MnNiF₆.

J.M. DANCE, J. GRANNEC et A. TRESSAUD

C.R. Acad. Sc., 281, 91, 1975.

42 - Détermination de la structure magnétique de la phase Na₅Fe₃F₁₄.

M. WINTENBERGER, J.M. DANCE et A. TRESSAUD

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A. TRESSAUD, J.M. DANCE, J.M. PARENTEAU, J.C. LAUNAY, J. PORTIER et P. HAGENMULLER

J. Crystal Growth, 32, 211, 1976.

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M. VLASSE, F. MENIL, C. MORILIERE, J.M. DANCE, A. TRESSAUD et J. PORTIER

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45 - Etude d'un nouveau type de fluorure antiferromagnétique à caractère bidimensionnel: NaFeF₄.

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A. TRESSAUD, F. PINTCHOVSKI, L. LOZANO, A. WOLD et P. HAGENMULLER

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A. TRESSAUD, M. WINTENBERGER, N. BARTLETT et P. HAGENMULLER

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48 - Etude magnétique sur monocristal des fluorures ferrimagnétiques Na₅Fe₃F₁₄ et Na₂NiFeF₇.

A. TRESSAUD, J.M. DANCE, M. VLASSE et J. PORTIER

C.R. Acad. Sc., 282, 1105, 1976.

49 - Etude cristallochimique et magnétique de Cs₂CuF₄ : un ferromagnétique à caractère bidimensionnel.

J.M. DANCE, J. GRANNEC et A. TRESSAUD

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52 - One-dimensional magnetism in N₂H₆FeF₅.

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Solid State Commun., 22, 215, 1977.

53 - The crystal structure of K₂FeF₅.

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Acta Cryst., B33, 3377, 1977.

54 - Les transitions de phases de l'oxyfluorure Rb₃MoO₃F₃

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Mat. Res. Bull., 14, 37, 1979.

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C.R. Acad. Sc., 288, 37, 1979.

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Solid State Commun., 29, 473, 1979.

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A. TRESSAUD, S. KHAIROUN, J.M. DANCE, J. GRANNEC, G. DEMAZEAU et P. HAGENMULLER

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A. DEMOURGUES, H. LARONZE, P. MACAUDIERE et A. TRESSAUD

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A. TRESSAUD, A. DEMOURGUES, E. DURAND, C. BELHOMME, A. JOURDAN, B. MOREL

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ORGANIZATION OF SCIENTIFIC EVENTS (as major organizer)

- 1er Symposium Européen sur la Chimie du Solide, Strasbourg, février 1978
Member of International Scientific Committee and Organization Committee
- Assemblée Générale de la Société Chimique de France, Bordeaux, septembre 1980
Member of Organization Committee
- 10th International Symposium on Fluorine Chemistry, Vancouver, Canada, août 1982
Member of International Scientific Committee
- Journées de l'Etat Solide, Bordeaux, juin 1984
Member of Organization Committee
- Symposium International sur le Centenaire de la Découverte du Fluor, Paris, septembre 1986
Member of International Scientific Committee and Organization Committee
- Journées "Passivation des Composants III-V", Bordeaux, décembre 1986
Co-organizer
- Jumelage Bordeaux-Leiden-Marburg sur "*Low-dimensional magnetism in fluorides*", Bordeaux, mai 1988
Co-organizer.
- Conférences on Superconductivity
(ICMAS-92), C.W.CHU Chairman, Paris, octobre 1992 / (ICMAS-93), J. ETOURNEAU Chairman, Paris, décembre 1993, Member of International Scientific Committee
- Séminaires Franco-Japonais : "*Inorganic Fluorinated Materials*" Co-Fondateur des séminaires
Co-President of the 1st Seminar, Sarlat, June 1993 / Coordinator of the French delegation, 2nd Seminar, Kyoto, May 1995
- International Symposia on Fluorine Chemistry (ISFC) Member of International Scientific Committee (1994 →).
- European Symposia on Fluorine Chemistry (ESFC) Member of International Scientific Committee (1995 →).
- 9th International Symposium on Intercalation Compounds, Bordeaux-Arcachon, mai 1997
Co-President of Symposium.
- 13th European Symposium on Fluorine Chemistry, Bordeaux, juillet 2001
Chairman International Scientific Committee and Organization Committee
- Symposium in Commemoration of Neil Bartlett's 70th Birthday, 224th ACS National Meeting, Boston, USA, 18-22 août 2002, Chairman Organization Committee
- International Seminar on Advanced Inorganic Fluorides, RAS, Novosibirsk, Russie, 2-4 avril 2003
Vice-President Seminar et member l'International Organizing Committee
- 3rd French-Japanese Seminar on Fluorine in Inorganic Chemistry and Electrochemistry, Paris, 23-25 avril 2003 Président du Comité d'organisation
- International Symposium on Fluorine Chemistry (Shanghai 2005, Bremen 2006)
- European Symposium on Fluorine Chemistry (Poznan 2004, Prague 2007)
Membre des Comités Scientifiques Internationaux
- 12th International Symposium on Intercalation Chemistry, Poznan, Pologne, 2-6 juin 2003 Membre de l'International Scientific Advisory Board
- Tables Rondes organisées par le Réseau Français du Fluor (A. Tressaud organisateur),
"Fluor & Conversion de l'Energie", Paris 15 octobre 2003, co-organisateur
"Fluor et surfaces", Le Mans, 23 nov. 2004, co-organisateur
"Fluor et santé", Paris, 2 février 2007, organisateur avec Mme Berdal
"Chimie du Fluor & Développement Durable", Maison de la Chimie, 1 juillet 2008.
- 4th Japanese-French Seminar on Inorganic Fluorine Chemistry, Kyoto, Japon, 15-17 mars 2006
Co-président de la délégation française
- Séminaire Franco-Japonais en l'honneur du Prof. Hidekazu Touhara, Bordeaux, 11-12 mai 2006
Président du Comité d'organisation
- 2nd International Seminar on Advanced Inorganic Fluorides, RAS, Tomsk, Russie, 11-16 juin 2006
Vice-Président du Séminaire et de l'International Organizing Committee
- Célébration du centenaire du prix Nobel de chimie d'Henri Moissan, Paris, 10 novembre 2006
Responsable du Colloque scientifique
- 18th and 19th Winter Fluorine Conferences, St Petersburg, Florida, USA, janvier 2007, 2009.

Member Scientific Advisory Board

- 4ème Séminaire Franco-Japonais, Reims, 12-13 juillet 2007

Member International Scientific Committee

- Symposium “Novel Bonding and Structural Modalities in Inorganic Fluorine Chemistry”, 234th ACS National Meeting, Boston, USA, 21-23 août 2007

Co-Chairman International Scientific Committee

- Table ronde GIS-Fluor CNRS : «Fluorine Chemistry and Sustainable Development: Myths and Realities», Paris, 02 juillet 2008

Co-Chairman International Scientific Committee

- 3rd International Seminar on Advanced Inorganic Fluorides, RAS, Vladivostok, Russie, 01-06 septembre 2008

Vice-Président of the Seminar and of International Organizing Committee

- 1st International Workshop on “Fluorinated Materials and Energy Conversion” (FMEC-2010), 12-13 avril 2010, Bordeaux, France

Président , Organization and International Scientific Committees

- ACS Symposium for Creative Work in Fluorine Chemistry: in Honor of Alain Tressaud Denver, USA, 30 août – 03 septembre 2011

- 1st Indian International Symposium on Fluorine Chemistry, New Delhi, Inde, 20- 24 février 2012

Vice Président, International Scientific Committee

- Table ronde GIS-Fluor CNRS, « Synthèse et Réactivité en Milieu Fluoré », Paris, 04 Avril 2012

Organizing Committee

- 17th European Symposium on Fluorine Chemistry & International Workshop FMEC - 2, Paris 21-25 juillet 2013

Honorary Chairman

- 2nd IISFC, Hyderabad, India (November 3-7 2014)

Honorary Chairman

- 9th French-Japanese Seminar on Fluorine Chemistry, Nice, 30 août-1er septembre 2015

Co-Chairman

- 1st South-African Fluorine Conference, Cape Town, S-Africa, (14-18 février 2016)

Honorary Chairman

- 2016-Symposium of the European Academy of Sciences "The Future of Science in the 21st Century: Progress in Science, Progress in Society", Brussels, Belgium, Nov.2016

Co-Chairman

- 2017-Symposium of the European Academy of Sciences “Science & Technology for the better future of humankind”, Lisbon, Portugal, Oct. 2017

Chairman

- 2018-Symposium of the European Academy of Sciences “Integrity and Responsibility in Science: Navigating through Conflicting Social and Epistemic Demands”. ”, Bielefeld, Germany, Oct. 2018

Co-Chairman

- 11th French-Japanese Seminar on Fluorine Chemistry, Les Eyzies, France, August 2019, Honorary Chairman