

### 1. Monographies

- 7) **Les quasicristaux, matière à paradoxes**; C. JANOT, J.M. DUBOIS, *EDP Sciences, Les Ulis, Collection Métallogénia (1998)*, 370 pages.
- 8) **Useful Quasicrystals**; J.M. DUBOIS, *World Scientific, Singapour (2005)*, 470 pages.

### 2. Book editing

- 9) **Quasicrystalline Materials**, Proceedings of the ILL/CODEST Workshop, Grenoble, March 1988; Chr. JANOT, J.M. DUBOIS Editeurs, *World Scientific, Singapour (1988)*.
- 10) **Numéro Spécial Quasicristaux**, J.M. DUBOIS, Éditeur invité, *Annales de Chimie Fr.*, vol. 18 (1993).
- 11) **New Horizons in Quasicrystals : Research and Applications**; A.I. GOLDMAN, D.J. SORDELET, P.A. THIEL, J.M. DUBOIS Eds., *World Scientific, Singapour (1997)*, 340 pages.
- 12) **Quasicrystals**; D.J. SORDELET, J.M. DUBOIS, *Guest Editors, MRS Bulletin, numéro de Novembre 1997*.
- 13) **Quasicrystals, Preparation, Properties and Applications**; Proceedings of Symposium LL, MRS Fall 98, Eds. J.M. DUBOIS, P.A. THIEL, A. P. TSAI and K. URBAN, *Materials Research Society, Warrendale (1999)* 524p.
- 14) **Complex Metallic Alloys, Fundamentals and Applications**; Eds. J.M. DUBOIS and E. BELIN-FERRÉ, *Wiley (Weinheim, 2010)*, 409 p.
- 15) **Recent Patents on Materials Science, Vol. 8, Num. 2 (2015)**; J.M. DUBOIS, Guest Editor, *Bentham Science Publishers, USA (2015)*.

### 3. Book chapters and review articles

- 16) **Results on Mössbauer Spectroscopy in the study of carbides and nitrides of steels**; J. FOCT, G. LE CAER, J.M. DUBOIS, R. FAIVRE *Proceedings International Conference on Carbides, Borides and Nitrides in Steels, Kolobrzeg, Pologne, 5 (1978)*, p. 225-269.
- 17) **Application de la spectrométrie Mössbauer à l'étude des amalgames dentaires : cinétique de formation de la phase g<sub>2</sub>**; J.M. DUBOIS, J.G. DUMAGNY, F. DUPONT, G. LE CAER, M. CLEMENT *Métallurgie Dentaire (1980)*, 95-112, eds. P. Guiraldenq et F. Blanc-Benon.
- 18) **Quasiperiodic structures : a new way for crystallography ?**; Chr. JANOT, J.M. DUBOIS *Teaching Modern Physics, (1989)* 214-243, *World Scientific, Singapour*, eds. K. Lücher, H. Deger, R. Gengler, K. Worg.
- 19) **The structure of quasicrystals : from diffraction patterns to atom positions**; Chr. JANOT, J.M. DUBOIS, M. de BOISSIEU *Geometry and Thermodynamics of Quasicrystals, Liquid Crystals and Incommensurate Systems*, ed. J.C. Toledano, *NATO-ASI Series, 229-B, (1990)* 9-24.
- 20) **Non-crystalline aluminium alloys : fundamentals and applications**; J.M. DUBOIS *Trends in Non-Crystalline Solids*, eds. A. Conde, C.F. Conde, M. Millan, *World Scientific, Singapour (1992)* 343-363.
- 21) **Matériaux Métalliques**; G. BECK, J.M. DUBOIS *La science au présent, Encyclopédia Universalis vol II (1992)* 394-396.
- 22) **Les propriétés des quasicristaux**; J.M. DUBOIS, in *Les Symétries de la Nature, Dossier Hors-Série, Pour la Science, Juillet 1998 (paru initialement dans Pour la Science, 226 (1996) 52-59)*.
- 23) **Potential applications of quasicrystalline materials**; J.M. DUBOIS, P. BRUNET, E. BELIN-FERRE, in *Quasicrystals, Current Topics*, eds. E. Belin-Ferré, C. Berger, M. Quiquandon et A. Sadoc (World Scientific, Singapour, 2000), p. 498-532.
- 24) **Quasicrystals**; E. MACIA, J.M. DUBOIS, P.A. THIEL, *Ullman's Encyclopedia of Industrial Chemistry*, Wiley-VCH Verlag GmbH, Weinheim, Germany. Publiée sous forme électronique sur <http://www.mrw.interscience.wiley.com/ueic/> (2002).
- 25) **Quasicrystals as hierarchical packing of overlapping clusters**; C. JANOT, J.M. DUBOIS, *Introduction to the Physics of Quasicrystals*, eds. J.B. Suck et al., *Springer Verlag, Berlin, (2002)* 183-198.
- 26) **Bulk and surface properties of quasicrystalline materials and their potential applications**; J.M. DUBOIS, *Introduction to the Physics of Quasicrystals*, eds. J.B. Suck et al., *Springer Verlag, Berlin, (2002)* 507-538.
- 27) **Aperiodic intermetallics : the example of quasicrystals**; E. BELIN-FERRÉ, V. DEMANGE, J.M. DUBOIS, *Crystallography Reviews* 10 (2004) 111-179.
- 28) **Pseudo-gap and properties of Al-based complex and aperiodic compounds**; E. BELIN-FERRÉ, J.M. DUBOIS, *The Science of Complex Alloys*, eds. P.E.A. Turchi and T.B. Massalski (TMS, Warrendale, 2005), 281-324.
- 29) **A new work space for materials science and engineering in Nancy**; J.M. DUBOIS, P. BRUNET, *Work Spaces in Art, Science and Business*, D. Billier, T. Froehlicher & J.B. Joly Eds. (Akademie Schloss Solitude, Stuttgart, 2006); p. 32-69.
- 30) **An introduction to complex metallic alloys and to the CMA Network of Excellence**; J.M. DUBOIS, in *Complex Metallic Alloys Series, Vol. I: Basics of Thermodynamics and Phase Transitions in Complex Intermetallics*, Ed. E. Belin-Ferré (World Scientific, Singapour, 2008), p 1-29.
- 31) **Those properties of CMAs we know something about**; V. FOURNÉE, M.G. BARTHÈS-LABROUSSE, J.M. DUBOIS, *Trans Tech. Pub.*, 138 (2008) 407-450.
- 32) **Les alliages métalliques complexes**; J.M. DUBOIS, in *La matière grise, premier élément d'alliage en métallurgie*, Ed. J.P. Morniroli (LMPGM, Villeneuve d'Ascq, 2008).
- 33) **Metallic, complex, and so different**; J.M. DUBOIS, in *Complex Metallic Alloys Series, Vol. II, Ed. E. Belin-Ferré (World Scientific, Singapour, 2009)*, pp. 1-92.
- 34) **Introduction to the Science of Complex Metallic Alloys**; J.M. DUBOIS, E. BELIN-FERRÉ, M. FEUERBACHER, in *Complex Metallic Alloys, Fundamentals and Applications*, Eds J.M. Dubois and E. Belin-Ferré. (Wiley, Weinheim, 2010), p. 1- 39.
- 35) **The Usefulness of Complex Metallic Alloys: Secured Breakthroughs and Applications on the Market**; J.M. DUBOIS, *Special issue on Recent Patents on Materials Science, Bentham Science Pub.*, 8-3 (2015) 86-90. DOI: [10.2174/187446480802150512194957](https://doi.org/10.2174/187446480802150512194957).
- 36) **Quasicrystals and Complex Metallic Alloys**; J.M. DUBOIS, E. BELIN-FERRE, A.P. TSAI, *Kirk-Ohtmer Encyclopedia of Chemistry*, Wiley, New York, in press.

### 4. Articles in refereed journals

- 37) **Etude par spectrométrie Mössbauer des phases interstitielles epsilon**; J. FOCT, J.M. DUBOIS, G. LE CAER *J. Phys. (Paris) C6, (1974)*, 493-496.
- 38) **Etude par spectrométrie Mössbauer des carbures de fer Fe<sub>3</sub>C et Fe<sub>5</sub>C<sub>2</sub>**; G. LE CAER, J.M. DUBOIS, J.P. SENEUR *Journal of Solid State Chem.*, 25, (1976), 19-28.
- 39) **Etude par spectrométrie Mössbauer des distributions d'interstitiels et de leur évolution dans les solutions solides Fe-C et Fe-N**; J. FOCT, J.M. DUBOIS, G. LE CAER *J. Phys. (Paris) C7, (1977)*, 231-234.

- 40) **Electron diffraction and Mössbauer studies of the e phase retained in splat-quenched Fe-C and Fe-C-Si alloys;** J.M. DUBOIS, G. LE CAER *Acta Metallurgica* 25, (1977), 609-618.
- 41) **Etude par spectrométrie Mössbauer des distributions d'interstitiels et de leur évolution dans les solutions solides Fe-C et Fe-N;** J. FOCT, J.M. DUBOIS, G. LE CAER *J. Phys. (Paris)* C7, (1977), 231-234.
- 42) **Application de la Spectrométrie Mössbauer pour la caractérisation et l'analyse quantitative des phases présentes dans les produits d'intérêt sidérurgique;** J.M. DUBOIS, G. LE CAER, C. OFFROY *Revue de Métallurgie* 74-11, (1977), 621-635.
- 43) **Electron diffraction and Mössbauer studies of the e phase retained in splat quenched Fe-C and Fe-C-Si alloys;** J.M. DUBOIS, G. LE CAER *Acta Metallurgica* 25, (1977), 609-618.
- 44) **Application de la Spectrométrie Mössbauer pour la caractérisation et l'analyse quantitative des phases présentes dans les produits d'intérêt sidérurgique;** J.M. DUBOIS, G. LE CAER, C. OFFROY *Revue de Métallurgie* 74-11, (1977), 621-635.
- 45) **An electronic device for piston and anvil liquisol apparatus;** J.M. DUBOIS *J. Phys. E : Sci. Instruments* 11, (1978), 76-78.
- 46) **Mössbauer effect study of iron carbides II : (Mn<sub>1-x</sub>Fe<sub>x</sub>)<sub>5</sub>SiC;** J.M. DUBOIS, G. LE CAER, J.P. SENATEUR *J. Solid State Chem.* 24-2, (1978), 189-197.
- 47) **The determination of q = (Vzz, H) from 1/2-3/2 Mössbauer spectra;** G. LE CAER, J.M. DUBOIS, L. HAGGSTROM, T. ERICSSON *Nucl. Instr. Methods* 57, (1978), 127-12.
- 48) **Mössbauer Spectroscopy of various interstitial compounds and solid solutions containing <sup>57</sup>Fe :** J. FOCT, J.P. SENATEUR, J.M. DUBOIS, G. LE CAER *J. Phys. (Paris)* 40, (1978), 647-649.
- 49) **Evaluation of hyperfine parameter distributions from overlapped Mössbauer spectra of amorphous alloys;** G. LE CAER, J.M. DUBOIS *J. Phys E : Sci. Instruments* 12-11, (1979), 1083-90.
- 50) **Etude par spectrométrie Mössbauer des alliages métalliques amorphes et des semi-conducteurs amorphes;** G. LE CAER, J.M. DUBOIS *Revue de Physique Appliquée*, 15 (1980) 1049-56. *Invited paper.*
- 51) **Etude par spectrométrie Mössbauer d'alliages Fe-Si-B amorphes;** J.M. DUBOIS, M. BASTICK, G. LE CAER, C. TETE *Revue de Physique Appliquée*, 15, (1980), 93-101.
- 52) **A low thermal inertia Mössbauer furnace;** J.M. DUBOIS, G. LE CAER *J. Phys. E : Sci. Instruments*, 13, (1980), 1002-1004.
- 53) **Mössbauer study of amorphous FeSiB, (FeNi)SiB and (FeNi)PB alloys;** J.M. DUBOIS, G. LE CAER, A. AMAMOU, U. HEROLD *J. Phys. (Paris)*, C1, (1980), 247-248.
- 54) **About the asymmetries in Mössbauer spectra of magnetic amorphous transition metal-metalloid alloys;** G. LE CAER, J.M. DUBOIS *Physica Status Solidi (a)* 64 (1981) 215-221.
- 55) **Etude par spectrométrie Mössbauer de l'amalgamation d'un alliage dentaire Ag-Sn-Hg;** J.M. DUBOIS, G. LE CAER, B. BERNARD, J.G. DUMAGNY, F. DUPONT *Acta Metallurgica* 29 (1981) 1159-69.
- 56) **Characterization by Mössbauer spectroscopy of iron carbides formed by Fisher-Tropsch synthesis;** G. LE CAER, J.M. DUBOIS, M. PIJOLAT, V. PERRICHON, P. BUSSIÈRE *J. Phys. Chem.* 86, (1982), 4799-4808.
- 57) **Preferential substitution of iron in Co-B glasses;** J.M. DUBOIS, G. LE CAER, J.P. SENATEUR *Solid State Comm.* 43-10, (1982), 777-780.
- 58) **On experimental attenuation factors of the amplitude of the EXAFS oscillations in absorption, reflectivity and luminescence measurements;** J. GOULON, C. GOULON-GINET, R. CORTES, J.M. DUBOIS *J. de Phys. (Paris)* 43, (1982), 539-548.
- 59) **Mössbauer study of the structure of Fe<sub>1-x</sub>B<sub>x</sub> glasses : a model of the atomic structure;** J.M. DUBOIS, G. LE CAER *Nucl. Instr. Methods* 199, (1982) 307-314.
- 60) **Polarised neutron diffraction, EXAFS and Mössbauer spectroscopy studies of amorphous Co-B alloys;** J.M. DUBOIS, G. LE CAER, P. CHIEUX, J. GOULON *Nucl. Instr. Methods* 199 (1982) 315-322
- 61) **Determination by polarised neutron diffraction of the three partial structure factors of a-Co<sub>82</sub>B<sub>18</sub> glass;** J.M. DUBOIS, P. CHIEUX, G. LE CAER, J. SCHWEITZER, J. BLETRY *J. Phys (Paris)* 43 (1982) C9-23-29.
- 62) **Structural description of transition metal-metalloid glasses;** J.M. DUBOIS, G. LE CAER *J. Phys (Paris)* 43 (1982) C9-67-74.
- 63) **Relations thermodynamiques entre la cristallisation des alliages amorphes Fe-B et leur préparation par trempe depuis l'état liquide;** C. CUNAT, C. CHARLES, J. HERTZ, J.M. DUBOIS, G. LE CAER *J. Phys. (Paris)* 43 (1982) C9-191-197.
- 64) **Thermodynamical interpretation of the structural and enthalpic properties of the crystallization of the Fe-B glasses;** C. CUNAT, M. NOTIN, J. HERTZ, J.M. DUBOIS, G. LE CAER *J. Non-Cryst. Solids* 55-1, (1983), 45-60.
- 65) **On the validity of <sup>57</sup>Fe hyperfine field distribution calculations from Mössbauer spectra of magnetic amorphous alloys;** G. LE CAER, J.M. DUBOIS, H. FISHER, U. GONSER, H.G. WAGNER *Nucl. Instr. Methods* 233 (1984) 25-33.
- 66) **Ordre local et propriétés des verres métalliques riches en fer;** J.M. DUBOIS, G. LE CAER *Acta Metallurgica* 32, (1984), 2101-2114.
- 67) **Resistivity measurements during the crystallization of Fe<sub>1-x</sub>B<sub>x</sub> glasses;** K. DEGHAN, J.M. DUBOIS, G. LE CAER, C. TETE *J. Non Cryst. Solids*, 65, (1984), 87-98.
- 68) **Sign determination of the <sup>57</sup>Fe quadrupole splitting in an amorphous Fe<sub>25</sub>Zr<sub>75</sub> alloy;** G. LE CAER, J.M. CADOGAN, R.A. BRAND, J.M. DUBOIS, H. GUNTHERODT *J. Phys. F : Metal Physics* 14, (1984), L73-78.
- 69) **Crystallization of amorphous Fe-Si-B alloys;** J. WOLNY, J. SMARDZ, W. ZAJAC, J. SOLTYS, J.M. DUBOIS *J. Mag. Mat.* 41, (1984), 191-194.
- 70) **Crystallization of amorphous alloys. Determination of activation energies from electrical resistivity measurements;** J. WOLNY, J. SOLTYS, L. SMARDZ, J.M. DUBOIS, A. CALKA *J. Non Cryst. Solids* 65, (1984), 409-416.
- 71) **Tendance à la vitrification et propriétés physiques d'alliages amorphes à base d'aluminium;** J.M. DUBOIS, G. LE CAER *C. R. Ac. Sc. Paris*, 301, section II.2, (1985), 73-78.
- 72) **Thermodynamical interpretation of the structural and enthalpic properties of the crystallization of the Fe-B glasses;** C. CUNAT, M. NOTIN, J. HERTZ, J.M. DUBOIS, G. LE CAER *J. Non Cryst. Solids* 55-1, (1983), 45-60.
- 73) **A model of the structure of metallic glasses based on chemical twinning;** J.M. DUBOIS, P.H. GASKELL, G. LE CAER *Proc. Roy. Soc. Lond.* A402, (1985), 323-357.
- 74) **Positional (dis)order and compositional (non-)homogeneity in metallic glasses;** J.M. DUBOIS, *J. Phys. (Paris)* 46 (1985) C8-335-341.

- 75) **SANS and structure factor neutron measurements in an amorphous Al<sub>70</sub>Si<sub>17</sub>Fe<sub>13</sub> alloy**; J.M. DUBOIS, K. DEHGHAN, Chr. JANOT, P. CHIEUX, B. CHENAL, J. Phys. (Paris) *46* (1985) C8-461-466.
- 76) **Preliminary neutron diffraction study of icosahedral quasicrystals using isomorphous substitution**; J.M. DUBOIS, Chr. JANOT, J. PANNETIER Phys. Lett. *A155-4*, (1986), 177-182
- 77) **Diffraction approach to the structure of decagonal quasicrystals**; J.M. DUBOIS, Chr. JANOT, J. PANNETIER, A. PIANELLI Phys. Lett., *A 117-8* (1986) 421-427.
- 78) **Isomorphism in quasi-periodic structures**; Chr. JANOT, J. PANNETIER, J.M. DUBOIS, R. FRUCHART Phys. Lett. *A 119-6* (1986) 309-312.
- 79) **Neutron and X-ray diffraction studies of amorphous Al<sub>70</sub>Si<sub>17</sub>Fe<sub>13</sub>**; J.M. DUBOIS, K. DEHGHAN, P. CHIEUX, M. LARIDJANI J. Non Cryst. Solids, *93* (1987) 179-189.
- 80) **Etude de la cristallisation d'un alliage amorphe à base d'aluminium**; B. CHENAL, J.M. DUBOIS, A. BILDE, G. VENTURINI C.R. Ac. Sc., *304*, section II.10 (1987) 501-506.
- 81) **Cristallisation et structure d'un alliage amorphe à base d'aluminium**; J.M. DUBOIS, B. MALAMAN, B. CHENAL, G. VENTURINI C.R. Ac. Sc. *304* section II-12, (1987), 641-646.
- 82) **Mécanisme de maclage dans les quasi-cristaux**; R. FRUCHART, J.M. DUBOIS C.R. Ac. Sc., *305*, série II (1987) 661-666.
- 83) **Décoration atomique des phases icosaédriques Al-Li-Cu et Al-Mn-Si**; R. FRUCHART, J.M. DUBOIS C.R. Ac. Sc., *305*, série II (1987) 1413-18.
- 84) **EXAFS study of the annealing effect on glassy Pd<sub>76</sub>B<sub>24</sub>: comparison with X-ray diffraction results and modelling**; G. COCCO, S. ENZO, A. BALERNA, S. MOBILIO, J.M. DUBOIS Phys. Rev., *B 36-9* (1987) 4734-41.
- 85) **Thermal transformation of icosahedral quasi periodic crystals of the Al- Mn system**; J. PANNETIER, J.M. DUBOIS, Chr. JANOT, A. BILDE Phil. Mag., *B 55-4* (1987) 435-457.
- 86) **Partial pair distribution functions in icosahedral Al-Mn studied by contrast variation in neutron diffraction**; J.M. DUBOIS, Chr. JANOT Journal de Physique, *48* (1987) 1981-1989.
- 87) **Sign determination of the <sup>57</sup>Fe electric field gradient in Al-based crystals and icosahedral quasicrystals**; G. LE CAER, R.A. BRAND, J.M. DUBOIS Phil. Mag. Lett., *56-4* (1987) 143-151.
- 88) **Formation of an icosahedral phase by crystallization of amorphous Al-Cu-V alloys**; S. GARCON, P. SAINFORT, G. REGGAZONI, J.M. DUBOIS Scripta Metallurgica, *21* (1987) 1493-98.
- 89) **Periodicity or quasiperiodicity in icosahedral Al-Mn phases ?**; Chr. JANOT, J.M. DUBOIS, J. PANNETIER Physica B, *146* (1987) 351-372.
- 90) **Contrast variation effects on neutron diffraction patterns with quasiperiodic structures**; Chr. JANOT, J. PANNETIER, M. de BOISSIEU, J.M. DUBOIS Europhysics Letters, *3-9* (1987) 995-1000.
- 91) **Les verres métalliques**; J.M. DUBOIS, G. LE CAER Le Courrier du CNRS, Images des Matériaux, *66* (1987) 3-8. Invited paper.
- 92) **Quasiperiodic Structure: Experiments and Models**; Chr. JANOT, J.M. DUBOIS J. Non Cryst. Solids *106* (1988) 193-206.
- 93) **Préparation, propriétés et exploitation des verres métalliques**; J.M. DUBOIS Traitement Thermique *222* (1988) 21-31.
- 94) **Topological instabilities in metallic lattices and glass formation**; J.M. DUBOIS J. Less Common Metals *145* (1988), 309-326.
- 95) **Chemical isomorphism and partial pair distribution functions in decagonal Al-Mn**; J.M. DUBOIS, Chr. JANOT Europhysics Letters, *5* (3) (1988) 235-240.
- 96) **Stoichiometry in Al-Mn based icosahedral phases**; Chr. JANOT, J. PANNETIER, J.M. DUBOIS, J.P. HOUIN, P. WEINLAND Phil. Mag. B, *58-1* (1988) 59-67.
- 97) **On the variation of structure of Fe-B-C and Fe-B-Al glasses with their metalloid content**; S.J. GUEDES DE LIMA, J.M. DUBOIS Inter. Journal of Rapid Solidification, *4* (1988), 37-51.
- 98) **Diffraction studies of Quasicrystals : the truncation effects in six dimensions**; M. de BOISSIEU, Chr. JANOT, J.M. DUBOIS Europhysics Lett., *7* (7) (1988), 593-598.
- 99) **Report on the ILL/CODEST Workshop on Quasicrystalline Materials**; Chr. JANOT, J.M. DUBOIS Inter. J. Rapid Solidification, *4* (1988), 75-88.
- 100) **Sign determination of the <sup>57</sup>Fe electric field gradient in Al-based crystals and icosahedral quasicrystals**; G. LE CAER, R.A. BRAND, J.M. DUBOIS Hyperfine Interactions *42* (1988) 943-946.
- 101) **Determination of the topological and chemical short range order in liquid Al<sub>80</sub> (Mn<sub>x</sub>(FeCr)<sub>1-x</sub>)<sub>20</sub> alloys**; M. MARET, A. PASTUREL, C. SENILLOU, J.M. DUBOIS, P. CHIEUX J. Non Cryst. Solids *106* (1988) 96-99.
- 102) **A direct method to determine quasicrystal structure with neutron diffraction**; M. de BOISSIEU, J. PANNETIER, Chr. JANOT, J.M. DUBOIS J. Non Cryst. Solids, *106*, (1988), 211-216.
- 103) **Pair distance distributions in icosahedral phases**; J.M. DUBOIS, M. de BOISSIEU, Chr. JANOT, B. DUBOST, R. FRUCHART, M. AUDIER J. Non Cryst. Solids, *106*, (1988), 217-220.
- 104) **Quasicrystals**; Chr. JANOT, J.M. DUBOIS J. Phys. F : Metal Physics, *18* (1988) 2303-2343. Invited paper.
- 105) **Amorphous alloys and quasicrystals studied by neutron diffraction**; J.M. DUBOIS, Chr. JANOT *II Curso difusión de neutrones, Blanes (Espagne), novembre 1988, X. Obradors ed. Invited paper.*
- 106) **Quasiperiodic structures: another topological longrange order for condensed matter**; Chr. JANOT, J.M. DUBOIS, M. de BOISSIEU American Journal of Physics, *57(11)* (1989) 972-987.
- 107) **Neutron diffraction approach to the atomic decoration of the Al-Mn icosahedral phase**; Chr. JANOT, J. PANNETIER, J.M. DUBOIS, M. de BOISSIEU Phys. Rev. Lett., *62-4* (1989), 450.
- 108) **Structural relationship between non-crystalline phases in the Al-Mn and Al-Fe-Cr systems through EXAFS measurements**; A. SADO, J.M. DUBOIS J. Phys. F : Metal Physics, *1* (1989) 4283-4296.
- 109) **Les alliages amorphes d'aluminium**; D. BECHET, G. REGGAZONI, J.M. DUBOIS Pour la Science, avril 1989. Invited paper.
- 110) **Icosahedral crystals : neutron diffraction tells you where the atoms are**; Chr. JANOT, M. de BOISSIEU, J.M. DUBOIS, J. PANNETIER J. Phys. : Cond. Matter, *1* (1989), 1029-1048.
- 111) **Partial structure factors of liquid Al<sub>80</sub> (Mn<sub>x</sub> (FeCr)<sub>1-x</sub>)<sub>20</sub> alloys**; M. MARET, A. PASTUREL, C. SENILLOU, J.M. DUBOIS, P. CHIEUX J. Phys. (Paris), *50* (1989), 295-310.
- 112) **Real time study of the growth of Al-Cu-Fe quasicrystals**; C. DONG, M. de BOISSIEU, J.M. DUBOIS, J. PANNETIER, Chr. JANOT J. Mat. Science Lett., *8* (1989) 827-830.
- 113) **Partial pair distribution functions in icosahedral Al-Li-Cu quasi-crystals**; M. de BOISSIEU, Chr. JANOT, J.M.



- DUBOIS, M. AUDIER, B. DUBOST *J. de Phys. (Paris)*, 50 (1989) 1689-1709.
- 114) Transformation of amorphous Al-Cu-V alloys into a new icosahedral phase; M. de BOISSIEU, A. PIANELLI, J.M. DUBOIS, J. PANNETIER, Chr. JANOT *Scripta Metallurgica* 23 (1989) 1069-1074.
  - 115) Neutron scattering studies of quasicrystals; Chr. JANOT, J.M. DUBOIS, M. de BOISSIEU, J. PANNETIER *Physica B*, 156 & 157 (1989) 25-30.
  - 116) Structure and hidden symmetry in metallic glasses and quasicrystals; J.M. DUBOIS, Chr. JANOT *Phil. Mag. B*, 61-4 (1990) 649-676.
  - 117) The magnetic transition in Fe-substituted hexagonal  $\beta$ -Al<sub>74</sub>Si<sub>6</sub>Mn<sub>20</sub> phase; R.A. BRAND, G. LE CAER, J.M. DUBOIS, F. HIPPERT, Ch. SAUER, J. PANNETIER *J. Phys. : Cond. Matter*, 2 (1990) 3855-65.
  - 118) Quasicrystal structure : cold water on the Penrose tiling scheme; M. de BOISSIEU, Chr. JANOT, J.M. DUBOIS *J. Phys : Cond. Matter*, 2-11 (1990) 2499-2517.
  - 119) Crystalline and quasicrystalline phases of the Al-Mn-Si system: a comparison of the <sup>57</sup>Fe EFG properties; R.A. BRAND, G. LE CAER, J.M. DUBOIS *J. Phys : Cond. Matter*, 2 (1990) 6413-6431.
  - 120) Neutron diffraction study of the peritectic growth of Al<sub>65</sub>Cu<sub>20</sub>Fe<sub>15</sub> icosahedral quasicrystal; C. DONG, J.M. DUBOIS, M. de BOISSIEU, Chr. JANOT *J. Phys. C : Cond. Matter*, 2 (1990) 6339-6360.
  - 121) Decagonal phases : a non-quasicrystalline microcrystalline state in an Al-Cu-Co-Si alloy; P. LAUNOIS, M. AUDIER, F. DENOYER, C. DONG, J.M. DUBOIS, M. LAMBERT *Europhysics Letters*, 13(7) (1990) 629-634.
  - 122) Quasicrystal structures with Neutron Diffraction: how far from 3-dim Penrose lattices; Chr. JANOT, M. de BOISSIEU, J.M. DUBOIS *Physica Scripta*, T35 (1991) 95-102.
  - 123) The reversible crystal - quasicrystal transitions in icosahedral Al-Cu-Fe alloys; J.M. DUBOIS, Chr. JANOT, C. DONG, M. de BOISSIEU, M. AUDIER *Phase Transitions*, 32 (1991) 3-28.
  - 124) Quasicrystalline low friction coatings; J.M. DUBOIS, S.S. KANG, J. von STEBUT *J. Mat. Sc. Lett.*, 10 (1991) 537-541
  - 125) Quasicrystals and crystalline phases in Al<sub>65</sub>Cu<sub>20</sub>Fe<sub>10</sub>Cr<sub>5</sub> alloys; C. DONG, J.M. DUBOIS *J. Materials Science*, 26 (1991) 1647-1654.
  - 126) Al-Cu-Fe quasicrystals: low temperature instability through a modulation mechanism; Chr. JANOT, M. AUDIER, M. de BOISSIEU, J.M. DUBOIS *Europhysics Lett.*, 14(4) (1991) 355-360.
  - 127) Atomic structure of the icosahedral Al-Li-Cu quasicrystal; M. de BOISSIEU, Chr. JANOT, J.M. DUBOIS, J. PANNETIER, M. AUDIER, B. DUBOST *J. Phys. : Cond. Matter*, 3 (1991) 1-25.
  - 128) Composition dependence of topological and chemical orders in liquid Al<sub>1-x</sub>(Mn<sub>y</sub>(FeCr)<sub>1-y</sub>)<sub>x</sub> alloys by neutron diffraction; M. MARET, P. CHIEUX, J.M. DUBOIS, A. PASTUREL *J. Phys. : Cond. Matter*, 3 (1991) 2801-2817.
  - 129) Phase transformations and structure characteristics of the Al<sub>65</sub>Cu<sub>17.5</sub>Co<sub>17.5</sub> decagonal phase; C. DONG, J.M. DUBOIS, M. de BOISSIEU, C. JANOT *J. Phys. : Cond. Matter*, 3 (1991) 1665-1673.
  - 130) Perfect and modulated quasicrystals in the system Al-Fe-Cu; M. AUDIER, Y. BRECHET, M. de BOISSIEU, P. GUYOT, Chr. JANOT, J.M. DUBOIS *Phil. Mag. B*, 63-6 (1991) 1375-1393.
  - 131) The reversible transition from decagonal to orthorhombic approximant phase; C. DONG, J.M. DUBOIS *Phase Transitions*, 32 (1991) 119-124.
  - 132) Al-Cr-Cu and Al-Co-Cu-Si phases of pseudo-decagonal symmetry and polycrystalline state; M. AUDIER, P. LAUNOIS, F. DENOYER, M. LAMBERT, C. DONG, J.M. DUBOIS *J. Microsc. Microanal. Microstruct.*, 1 (1990) 417-422.
  - 133) The structure of the icosahedral Al-Pd-Mn quasicrystal; M. BOUDARD, M. de BOISSIEU, Chr. JANOT, J.M. DUBOIS, C. DONG *Phil. Mag. Letters*, 64-4 (1991) 197-206.
  - 134) Growth of stable Al-Pd-Mn icosahedral phase; C. DONG, J.M. DUBOIS, M. de BOISSIEU, M. BOUDARD, Chr. JANOT *J. Materials Research*, 6-12 (1991) 2637-2645.
  - 135) The orthorhombic approximant phases of the decagonal phase; C. DONG, J.M. DUBOIS, S.S. KANG, M. AUDIER *Phil. Mag. B*, 65-1 (1992) 107-126.
  - 136) Electronic distributions of Al-Mn and Al-Mn-Si alloys; E. BELIN, J. KOJNOK, A. SADO, A. TRAVERSE, M. HARMELIN, C. BERGER, J.M. DUBOIS *J. Phys. : Cond. Matter*, 4 (1992) 1057-1068.
  - 137) Pressure induced phase transitions in quasicrystals and related compounds; S.S. KANG, J.M. DUBOIS *Europhys. Lett.*, 18(1) (1992) 45-51.
  - 138) Compression testing of quasicrystalline materials; S.S. KANG, J.M. DUBOIS *Phil. Mag. A*, 66-1 (1992) 151-163.
  - 139) Electronic distribution of states in crystalline and quasicrystalline AlCuFe and AlCuFeCr alloys; E. BELIN, Z. DANKHAZI, A. SADO, Y. CALVAYRAC, T. KLEIN, J.M. DUBOIS *J. Phys. Cond. Matter*, 4 (1992) 4459-4472.
  - 140) Signature of the local order in perfect icosahedral Al-Pd-Mn quasicrystal; A. SADO, J.M. DUBOIS *Phil. Mag.*, B66-4 (1992) 541-548
  - 141) Lattice transformations in the approximant and decagonal phases; S.S. KANG, J.M. DUBOIS *J. Phys. : Cond. Matter*, 4 (1992) 7025-7040.
  - 142) Polytypism in quasicrystals and approximants; S.S. KANG, J.M. DUBOIS *J. Phys. : Cond. Matter* 4 (1992) 10169-198.
  - 143) Neutron and X-ray single crystal study of the Al-Pd-Mn icosahedral phase; M. BOUDARD, M. de BOISSIEU, C. JANOT, G. HEGER, C. BEELI, H.U. NISSEN, H. VINCENT, R. IBBERTSON, M. AUDIER, J.M. DUBOIS *J. Phys. : Cond. Matter*, 4 (1992) 10149-168.
  - 144) Structure of the quasicrystal approximant phase Al<sub>61.3</sub>Cu<sub>7.4</sub>Fe<sub>11.1</sub>Cr<sub>17.2</sub>Si<sub>3</sub> S.S. KANG, B. MALAMAN, G. VENTURINI, JM. DUBOIS *Acta Cryst. B* 48 (1992) 770-776.
  - 145) A single crystal X-ray diffraction study of AlPdMn icosahedral quasicrystal; Chr. JANOT, M. de BOISSIEU, M. BOUDARD, H. VINCENT, M. DURAND, J.M. DUBOIS, C. DONG *J. Non Cryst. Solids*, 150 (1992) 322-326.
  - 146) Thermal conductivity of quasicrystalline alloys; J.M. DUBOIS, S.S. KANG, P. ARCHAMBAULT, B. COLLERET *J. Mat. Research* 8-1 (1993) 38-43.
  - 147) Atomic structure of the Al-Pd-Mn icosahedral phase; M. BOUDARD, M. de BOISSIEU, C. JANOT, G. HEGER, C. BEELI, H.U. NISSEN, H. VINCENT, M. AUDIER, J.M. DUBOIS *J. Non Cryst. Solids*, 153-154 (1993) 5-9.
  - 148) On the local structure in icosahedral AlPdMn quasicrystals; A. SADO, J.M. DUBOIS *J. Non Cryst. Solids*, 153-154 (1993) 83-85.
  - 149) Application of quasicrystalline alloys to surface coating of soft metals; J.M. DUBOIS, S.S. KANG, Y. MASSIANI *J. Non Cryst. Solids*, 153-154 (1993) 443-445.
  - 150) 2D geometrical model of the decagonal phase: tiling units and formation; C. DONG, J.M. DUBOIS *J. Non Cryst. Solids*, 159 (1993) 107-120.
  - 151) Darwinian adaptative simulated annealing; F. MONTOYA, J.M. DUBOIS *Europhys. Letters*, 22(2) (1993) 79-84.
  - 152) Electrochemical behaviour of quasicrystalline alloys in corrosive solutions; Y. MASSIANI, S. AIT YAAZZA, J.P.

- CROUSIER, J.M. DUBOIS *J. Non Cryst. Sol.*, 159 (1993) 92-100.
- 153) **Neutron scattering study of quasicrystal forming liquid Al Pd M (M=Mn,Fe,Cr) alloy**; M. MARET, J.M. DUBOIS, P. CHIEUX *J. Non Cryst. Solids*, 156-158 (1993) 918-922.
  - 154) **Tribological properties of quasicrystalline coatings**; S.S. KANG, J.M. DUBOIS, J. von STEBUT *J. Mat. Research*, 8-10 (1993) 2471-81.
  - 155) **Validation and realisation of advanced aluminium alloy coatings by thermal spraying process**; S. S. KANG, J.M. DUBOIS *J. Industrial Technology*, 3(2) (1993) 21-33.
  - 156) **The applied physics of quasicrystals**; J.M. DUBOIS *Scripta Physica*, T49 (1993) 17-23.
  - 157) **Heat diffusivity in quasicrystals and related alloys**; A. PERROT, J.M. DUBOIS *Annales de Chimie, numéro spécial Quasicristaux*, 18 (1993) 501-512.
  - 158) **Structure et propriétés des quasicristaux et leurs applications technologiques potentielles**; J.M. DUBOIS *Annales de Chimie, numéro spécial Quasicristaux*, 18 (1993) 423-444.
  - 159) **Phase transformations and structural characteristics of Al-Cu-Co(Si) decagonal phase**; C. DONG, J.M. DUBOIS, S.S. KANG, M. de BOISSIEU, M. AUDIER, Chr. JANOT *Phase Transitions*, 44 (1993) 111-120.
  - 160) **Classification scheme for decagonal approximant crystals**; S.S. KANG, J.M. DUBOIS *Phase Transitions*, 44 (1993) 3-16.
  - 161) **Two-colour Penrose tiling: application to the decagonal phase**; X.Z. LI, J.M. DUBOIS, K.H. KUO *Phil. Mag. Lett.*, 69-2 (1994) 93-98.
  - 162) **Plasma sprayed quasicrystalline coatings with reduced adhesion for cookware**; J.M. DUBOIS, A. PRONER, B. BUCAILLE, P. CATHONNET, C. DONG, V. RICHARD, A. PIANELLI, Y. MASSIANI, S. AIT-YAAZZA, E. BELIN-FERRE *Annales de Chimie*, 19 (1994) 3-25.
  - 163) **Structural subunits of Al-Pd-Mn decagonal quasicrystal derived from the structure of the T3-AlMnZn phase**; X.Z. LI, J.M. DUBOIS *J. Phys. : Cond. Matter*, 6 (1994) 1653-62.
  - 164) **Icosahedral order in glass-forming metallic melts**; J.M. DUBOIS, F. MONTOYA, C. BACK *Mat. Sci. Eng.*, A178 (1994) 285-291.
  - 165) **Towards applications of quasicrystals**; J.M. DUBOIS, S. S. KANG, A. PERROT *Mat. Sci. Eng.*, A179-180 (1994) 122-126.
  - 166) **Alp Conduction states in quasicrystalline Al-Cu-Fe alloy and related compounds**; E. BELIN, Z. DANKHAZI, A. SADOC, J.M. DUBOIS, Y. CALVAYRAC *Europhys. Letters* 26(9) (1994) 677-682.
  - 167) **Electronic distributions in quasicrystalline Al Pd Mn alloys**; E. BELIN, Z. DANKHAZI, A. SADOC, J.M. DUBOIS *J. Phys. : Cond. Matter*, 6 (1994) 8771-8779.
  - 168) **Structure factors of binary Al-Ni and ternary Al-Ni-Si liquid alloys**; S. SAAD-EDDINE, J.F. WAX, B. GROSIDIER, J.G. GASSER, C. REGNAULT, J.M. DUBOIS *J. Phys. Chem. Liquids*, 28 (1994) 221-230.
  - 169) **Les quasicristaux : quelles applications technologiques ?**; JM. DUBOIS *Annales des Mines, Février 1995*, 16-21. *Invited paper.*
  - 170) **Structural study of crystalline approximants of the Al-Cu-Fe-Cr decagonal quasicrystal**; X. Z. LI, C. DONG, J.M. DUBOIS *J. Applied Crystallography*, 28 (1995) 96-104.
  - 171) **Influence of the annealing atmosphere on the formation of Al-Cu-Fe quasicrystals**; S.S. KANG, J.M. DUBOIS *J. Materials Research*, 10-5 (1995) 1071-74.
  - 172) **Comportement à la corrosion électrochimique de revêtements quasicristallins préparés à la torche plasma**; S. AIT-YAAZZA, Y. MASSIANI, J.P. CROUSIER, J.M. DUBOIS *Matériaux et Techniques*, 3-4 (1996) 39-45.
  - 173) **Alp-like states in highly resistive quasicrystalline alloys**; E. BELIN-FERRE, J.M. DUBOIS *J. Phys. Cond. Matter*, 8 (1996) L717-723.
  - 174) **Volume diffusion of <sup>59</sup>Fe in Al<sub>62</sub>Cu<sub>25.5</sub>Fe<sub>12.5</sub> icosahedral quasicrystals**; JL. JOULAUD, C. BERGMAN, J. BERNARDINI, P. GAS, JM. DUBOIS, Y. CALVAYRAC, D. GRATIAS *J. Physique IV Paris, C2-6* (1996) 259-262.
  - 175) **Volume and grain boundary self-diffusion of Fe in Al-Cu-Fe icosahedral quasicrystals**; J.L. JOULAUD, J. BERNARDINI, P. GAS, C. BERGMAN, J.M. DUBOIS, Y. CALVAYRAC, D. GRATIAS, *Phil. Mag.*, 75-5 (1997) 1287-97.
  - 176) **Electronic structure of hexagonal Al<sub>5</sub>Co<sub>2</sub>**; E. BELIN-FERRE, G. TRAMBLAY de LAISSARDIERE, P. PECHEUR, A. SADOC, J.M. DUBOIS, *J. Phys. : Cond. Matter*, 9 (1997) 9585-9596.
  - 177) **Hierarchical nature of the Brillouin zones in icosahedral Al<sub>3</sub>Cu<sub>2</sub>Fe**; B. VIGNERON, A. PERROT, F. MACHIZAUD, J.M. DUBOIS, G. JEANDEL, B. WYNCKE, *Phil. Mag. B* 77-3 (1998) 849-857.
  - 178) **Study of Al-Cu Hume-Rothery alloys and their relationship to the electronic properties of quasicrystals**; V. FOURNEE, E. BELIN-FERRE, J.M. DUBOIS, *J. Phys. : Cond. Matter.*, 10(19) (1998) 4231-44.
  - 179) **Self-diffusion in icosahedral Al<sub>72.4</sub>Pd<sub>20.5</sub>Mn<sub>7.1</sub> and phason percolation at low temperatures studied by <sup>27</sup>Al NMR**; J. DOLINSEK, T. APIH, M. SIMSIC, J.M. DUBOIS, *Phys. Rev. Lett.* 82 (1999) 572- 75.
  - 180) **First direct evidence of size-dependent structural transition in nanosized nickel particles**; S. ILLY, O. TILLEMENT, F. MACHIZAUD, J.M. DUBOIS, F. MASSICOT, Y. FORT, J. GHANBAJA, *Phil. Mag. A* 79-5 (1999) 1021-31.
  - 181) **Emissivité du quasicristal Al<sub>62</sub>Cu<sub>25.5</sub>Fe<sub>12.5</sub>**; P. PIGEAT, M. GIL-GAVATZ, D. CLAUDEL, D. ROUXEL, B. WEBER, J.M. DUBOIS, *Science et Génie des Matériaux*, 5 (1999) 615-19.
  - 182) **Spectroscopies X appliquées à l'analyse de la structure électronique d'alliages intermétalliques quasicristallins**; V. FOURNEE, E. BELIN-FERRE, A. SADOC, J.M. DUBOIS, *Science et Génie des Matériaux*, Septembre 1999, 1079-1086.
  - 183) **Quasicrystals. Reaching Maturity for Technological Applications**; P.A. THIEL, J.M. DUBOIS, *Materials Today*, 2-3 (1999) 3-7.
  - 184) **Structure and tribological property of B2-based approximants**; C. DONG, L.-M. ZHANG, Q.-G. ZHOU, H.-C. ZHANG, J.M. DUBOIS, Q.-H. ZHANG, Y.C. FU, F.-Z. HE, F. GE, *Bull. Mat. Sci.* 22-2 (1999) 102-108.
  - 185) **Atomic motions in a crystalline Al<sub>50</sub>Cu<sub>35</sub>Ni<sub>15</sub> alloy**; U. DAHLBORG, W.S. HOWELLS, M. CALVO-DAHLBORG, J.M. DUBOIS, *J. Phys. : Cond. Matter* 12 (2000) 4021-41.
  - 186) **Electron microscopy study of scratch-induced surface microstructures in Al-Cu-Fe icosahedral quasicrystal**; J.S. WU, V. BRIEN, P. BRUNET, C. DONG, J.M. DUBOIS, *Phil. Mag. A* 80-7 (2000) 1645-55.
  - 187) **NMR studies of an icosahedral Al<sub>72.4</sub>Pd<sub>20.5</sub>Mn<sub>7.1</sub> quasicrystal**; J.L. GAVILANO, S. MUSHKOLAJ, H.R. OTT, T. APIH, J. DOLINSEK, J.M. DUBOIS, K. URBAN, *Physica B* 284-288 (2000) 1167-68.
  - 188) **Electrons in a strange sea. Comment on the article by E. Rosenberg et al.**; P.A. THIEL, J.M. DUBOIS, *Nature* 406 (2000) 570-572.
  - 189) **Surface oxidation of the Al<sub>62</sub>Cu<sub>25.5</sub>Fe<sub>12.5</sub> icosahedral quasicrystal**; M. GIL-GAVATZ, D. ROUXEL, P. PIGEAT, B. WEBER, J.M. DUBOIS, *Phil. Mag. A* 80-9 (2000) 2083-97.
  - 190) **Al 3p occupied states in Al-Cu-Fe intermetallics and enhanced stability of the icosahedral quasicrystal**; E. BELIN-

- FERRÉ, V. FOURNÉE, J.M. DUBOIS, *J. Phys.: Cond. Matter*, **12**:37 (2000) 8159-177.
- 191) **Searching for sharp features in the pseudogap of icosahedral quasicrystals by NMR**; J. DOLINSEK, M. KLANJSEK, T. APIH, A. SMONTARA, J.C. LASJAUNIAS, J.M. DUBOIS, S.J. POON, *Phys. Rev. B* **62**:13 (2000) 8862-8870.
- 192) **Influence of valence electron concentration over the friction behaviors of quasicrystal and B2-type approximants in Al-Cu-Fe ternary system**; L.M. ZHANG, P. BRUNET, H.C. ZHANG, C. DONG, J.M. DUBOIS, *Tribology Letters* **8** (2000) 233-236.
- 193) **Activated hydride reduction of palladium - copper ions in organic media. Formation of nanocrystalline Pd/Cu alloy powders**; S. ILLY-CHERREY, O. TILLEMENT, F. MASSICOT, Y. FORT, J. GHANBAJA, J.M. DUBOIS, *Mat. Sc. Eng. A* **283** (2000) 11-16.
- 194) **New prospects from technological applications of quasicrystalline materials**; J.M. DUBOIS, *Mat. Sc. Eng. A* **294-296** (2000) 4-9.
- 195) **Comparative study of microstructural and tribological properties of sintered, bulk icosahedral samples**; P. BRUNET, L. ZHANG, D.J. SORDELET, M. BESSER, J.M. DUBOIS, *Mat. Sc. Eng. A* **294-296** (2000) 74-78.
- 196) **New approximant phases in AlCrFe**; V. DEMANGE, J.S. WU, V. BRIEN, F. MACHIZAUD, J.M. DUBOIS, *Mat. Sc. Eng. A* **294-296** (2000) 79-81.
- 197) **Diffusive motions in a crystalline Al<sub>50</sub>Cu<sub>35</sub>Ni<sub>15</sub> alloy**; U. DAHLBORG, W.S. HOWELLS, M. CALVO-DAHLBORG, J.M. DUBOIS, *Mat. Sc. Eng. A* **294-296** (2000) 670-674.
- 198) **Influence of valence electron concentration over friction coefficient of B2-based approximants**; L.M. ZHANG, C. DONG, P. BRUNET, J.M. DUBOIS, *Mat. Sc. Eng. A* **294-296** (2000) 810-812.
- 199) **About the Al3p density of states in Al-Cu-Fe compounds and its correlation to the apparent surface energy of quasicrystals**; E. BELIN-FERRE, J.M. DUBOIS, V. FOURNEE, P. BRUNET, D.J. SORDELET, L. ZHANG, *Mat. Sc. Eng. A* **294-296** (2000) 818-821.
- 200) **Scratch-induced surface microstructures on deformed surface of Al-Cu-Fe icosahedral quasicrystal**; J.S. WU, V. BRIEN, P. BRUNET, C. DONG, J.M. DUBOIS, *Mat. Sc. Eng. A* **294-296** (2000) 846-849.
- 201) **Pseudo-gap in quasicrystals: a key to understand their stability and properties**; E. BELIN-FERRE, V. FOURNEE, J.M. DUBOIS, *Mat. Trans. JIM* **42**:6 (2001) 911-919. *Invited paper.*
- 202) **Surface oxidation of AlCrFe alloys characterized by X-ray photoelectron spectroscopy**; V. DEMANGE, J.W. ANDEREGG, J. GHANBAJA, F. MACHIZAUD, D.J. SORDELET, M. BESSER, P.A. THIEL, J.M. DUBOIS, *Appl. Surf. Sc.* **173** (2001) 327-338.
- 203) **Surface properties of the B2-based approximants in relation to quasicrystals**; C. DONG, L. ZHANG, E. BELIN-FERRE, P. BRUNET, J.M. DUBOIS, *Mat. Sc. Eng. A* **304-306** (2001) 172-177.
- 204) **Diffusive motions in crystalline AlCuNi by neutron quasielastic scattering**; W.S. HOWELLS, U. DAHLBORG, M. CALVO-DAHLBORG, J.M. DUBOIS, *Physica B* **301** (2001) 78-82.
- 205) **Mn magnetism in icosahedral quasicrystalline Al<sub>72.4</sub>Pd<sub>20.5</sub>Mn<sub>7.1</sub>**; J. DOLINSEK, M. KLANJSEK, T. APIH, J.L. GALIVANO, K. GIANNO, H.R. OTT, J.M. DUBOIS, K. URBAN, *Phys. Rev. B* **64**(2) (2001) 024203-1-8.
- 206) **Reply to the Comment by Coddens et al.**; U. DAHLBORG, W.S. HOWELLS, M. CALVO-DAHLBORG, J. DOLINSEK, J.M. DUBOIS, *J. Phys.: Cond. Matter* **13** (2001) 8873-74.
- 207) **Quasicrystals**; J.M. DUBOIS, *J. Phys. : Cond. Matter* **13** (2001) 7753-7762. *Invited paper.*
- 208) **Electron spin resonance in icosahedral Al<sub>63</sub>Cu<sub>25</sub>Fe<sub>12</sub> quasicrystal**; J. DOLINSEK, D. ARCON, A. ZORKO, M. KLANJSEK, C. SAYLOR, L.C. BRUNEL, P. BRUNET, J.M. DUBOIS, *Phys. Rev. B* **65** (2002) 064205 1-6.
- 209) **Synthesis and properties of nearly single-shell nickel clusters in aluminium oxides**; O. TILLEMENT, S. ILLY-CHERREY, J.M. DUBOIS, S. BEGIN-COLIN, F. MASSICOT, R. SCHNEIDER, Y. FORT, J. GHANBAJA, C. BELLOUARD, E. BELIN-FERRE, *Phil. Mag. A* **82**:5 (2002) 913-923.
- 210) **Optical conductivity of Al-Cr-Fe approximant compounds**; V. DEMANGE, A. MILANDRI, M.C. de WEERD, F. MACHIZAUD, G. JEANDEL, J.M. DUBOIS, *Phys. Rev. B*, **65** (2002) 144205 1-11.
- 211) **Atomic jumps in quasicrystals – specific to quasiperiodicity or to specific types of atomic structure?**; J. DOLINSEK, T. APIH, P. JEGLIC, M. FEUERBACHER, M. CALVO-DAHLBORG, U. DAHLBORG, J.M. DUBOIS, *Phys. Rev. B* **65**:21 (2002) 212203 1-4.
- 212) **New approximants in the Al-Cr-Fe system and their oxidation resistance**; V. DEMANGE, F. MACHIZAUD, J.M. DUBOIS, J.W. ANDEREGG, P.A. THIEL, D.J. SORDELET, *J. Alloys & Comp.* **342** (2002) 24-29.
- 213) **Structural realization of the polytope approach for the geometrical description of the transition of a quasicrystal into a crystalline phase**; V.S. KRAPOSHIN, A.L. TALIS, J.M. DUBOIS, *J. Phys. : Cond. Matter*, **14** (2002) 8987-8996.
- 214) **Synthesis and characterization of nano-sized nickel (II), copper (I) and zinc (II) oxide nanoparticles**; S. ILLY-CHERREY, O. TILLEMENT, J.M. DUBOIS, F. MASSICOT, Y. FORT, J. GHANBAJA, S. BEGIN-COLIN, *Mat. Sc. Eng. A* **338** (2002) 70-74.
- 215) **Phases in the crystallization process of Zr<sub>65</sub>Al<sub>7.5</sub>Ni<sub>10</sub>Cu<sub>17.5</sub> metallic glass**; Y. LEI, C. DONG, Z. HEI, Y. WANG, D. WANG, M. DAHLBORG, J.M. DUBOIS, *Rare Metals*, **22**(1) (2003) 33-41.
- 216) **Spectroscopic ellipsometric characterization of approximant thin films of Al-Cr-Fe**; L. JOHANN, A. EN NACIRI, L. BROCH, V. DEMANGE, J. GHANBAJA, F. MACHIZAUD, J.M. DUBOIS, *Appl. Surf. Science* **207** (2003) 300-305.
- 217) **Formation of amorphous phase in Zr-IQC-DQC pseudo-ternary alloys system**; Y. LEI, Z. HEI, M. CALVO-DAHLBORG, J.M. DUBOIS, C. DONG, *Acta Metall. Sinica* **39**(6) (2003) 573-578.
- 218) **Amorphous alloy composition with high glass-formation ability in the pseudoternary Zr-(IQC-Al<sub>62</sub>Cu<sub>25.5</sub>Fe<sub>12.5</sub>)-(DQC-Al<sub>70</sub>Co<sub>15</sub>Ni<sub>15</sub>) alloy system**; YI LEI, M. DAHLBORG, J. M. DUBOIS, Z. HEI, P. WEISBECKER, C. DONG, *J. Mater. Res.* **18**:7 (2003) 1588-1593.
- 219) **Structural perfection and the electrical and magnetic response of icosahedral AlPdMn quasicrystals**; M. KLANJSEK, P. JEGLIC, P. McGUINNESS, M. FEUERBACHER, E.S. ZIJLSTRA, J.M. DUBOIS, J. DOLINSEK, *Phys. Rev. B* **68** (2003) 134210-1-9.
- 220) **Reply to "Comment on 'Atomic jumps in quasiperiodic Al<sub>72.6</sub>Ni<sub>10.5</sub>Co<sub>16.9</sub> and related crystalline material' "**, J. DOLINSEK, J.M. DUBOIS, *Phys. Rev. B* **68** (2003) 216201-1-4
- 221) **Structure and morphology of [icosahedral Al<sub>62</sub>Cu<sub>25.5</sub>Fe<sub>12.5</sub>](100-x)[decagonal Al<sub>70</sub>Co<sub>15</sub>Ni<sub>15</sub>](x) alloys, for x=10\*(0-3 and 5-10)**, Y. LEI, M. CALVO DAHLBORG, J. M. DUBOIS, Z. HEI, P. WEISBECKER, C. DONG; *J. Non Cryst. Sol.* **330** (1-3) (2003) 39-4.
- 222) **Formation of amorphous phase in Zr-IQC-DQC pseudo-ternary alloys system**; Y. LEI, Z. HEI, M. CALVO-DAHLBORG, J.M. DUBOIS, C. DONG, *Acta Metall. Sinica* **39**(6) (2003) 573-578.
- 223) **Phases in the crystallization process of Zr<sub>65</sub>Al<sub>7.5</sub>Ni<sub>10</sub>Cu<sub>17.5</sub> metallic glass**; Y. LEI, C. DONG, Z. HEI, Y. WANG, D. WANG, M. DAHLBORG, J.M. DUBOIS, *Rare Metals*, **22**(1) (2003) 33-41.
- 224) **Friction and fretting on quasicrystals under vacuum**; J.M. DUBOIS, P. BRUNET, W. COSTIN, A. MERSTALLINGER, *J. Non Cryst. Sol.*, **334&335** (2004) 475-480.



- 225) **A model of wetting on quasicrystals in ambient air**; J.M. DUBOIS, *J. Non Cryst. Sol.*, **334&335** (2004) 481-485.
- 226) **Oxidation kinetics of an AlCuFeCr approximant compound: an ellipsometric study**; G. BONHOMME, M. LEMIEUX, P. WEISBECKER, V.V. TSUKRUK, J.M. DUBOIS, *J. Non Cryst. Sol.* **334&335** (2004) 532-539.
- 227) **Influence of boron content on the microstructure of sintered  $Al_{62.5-x}Cu_{25.3}Fe_{12.2}B_x$  alloys (x=0, 3, 5)**; V. BRIEN, V. KHARE, F. HERBST, P. WEISBECKER, J.B. LEDEUIL, M.C. de WEERD, J.M. DUBOIS, *J. Mat. Research*, **19-10** (2004) 2974-2980.
- 228) **Etude par diffraction X de l'oxydation à 500°C de poudres quasicristallines AlCuFe**; G. BONHOMME, P. WEISBECKER, G. BOTT, J.M. DUBOIS, *Journal de Physique*, **118** (2004) 283-294.
- 229) **Study of decagonal approximants and  $\gamma$ -brass-type compounds in Al-Cr-Fe thin films**; V. DEMANGE, J. GHANBAJA, C. BEELI, F. MACHIZAUD, J.M. DUBOIS, *J. Mat. Research*, **19(8)** (2004) 2285-2297.
- 230) **Electrochemical behavior of approximant phases in the Al-(Cu)-Cr-Fe system**; D. VEYS, C. RAPIN, X. LI, L. ARANDA, V. FOURNÉE, J.M. DUBOIS, *J. Non Cryst. Sol.*, **347/1-3** (2004) 1-10.
- 231) **A way to estimate the true surface energy of complex metallic alloys**; J.M. DUBOIS, M.C. de WEERD, J. BRENNER, *Ferroelectrics* **305** (2004) 159-162.
- 232) **Effect of Be additions on the electronic density of states of icosahedral Al-Cu-Fe compounds**; E. BELIN-FERRÉ, DO-HYANG KIM, Z. DANKHAZI, J.M. DUBOIS, *Ferroelectrics* **305** (2004) 229-233.
- 233) **Study of decagonal approximants and  $\gamma$ -brass-type compounds in Al-Cr-Fe thin films**; V. DEMANGE, J. GHANBAJA, C. BEELI, F. MACHIZAUD, J.M. DUBOIS, *J. Mat. Res.* **19(8)** (2004) 2285-2297.
- 234) **Etude par diffraction X de l'oxydation à 500°C de poudres quasicristallines AlCuFe**; G. BONHOMME, P. WEISBECKER, G. BOTT, J.M. DUBOIS, *J. Phys. IV France* **118** (2004) 283-294.
- 235) **Influence of boron content on the microstructure of sintered  $Al_{62.5-x}Cu_{25.3}Fe_{12.2}B_x$  alloys (x=0, 3, 5)**; V. BRIEN, V. KHARE, F. HERBST, P. WEISBECKER, J.B. LEDEUIL, M.C. de WEERD, J.M. DUBOIS, *J. Mat. Res.* **19-10** (2004) 2974-2980.
- 236) **About  $\gamma$ -brass phases in the Al-Cr-Fe system and their relationships to quasicrystals and approximants**; V. DEMANGE, J. GHANBAJA, F. MACHIZAUD, J.M. DUBOIS, *Phil. Mag.*, **85-12** (2005) 1261-72.
- 237) **The oxidation at 500°C of AlCuFe quasicrystalline powders: a X-ray diffraction study**; P. WEISBECKER, G. BONHOMME, G. BOTT, J.M. DUBOIS, *J. Non Cryst. Sol.* **351** (2005) 1630-38.
- 238) **Synthesis, characterization and optical behaviour of vapour grown nano-crystalline Al-Cr-Fe-Mo thin films**; V. BRIEN, S. KENZARI, P. WEISBECKER, S. WEBER, F. MACHIZAUD, J. M. DUBOIS, *J. Alloys Compounds* **391** (2005) 206-211.
- 239) **Experimental study of the electronic density of states in aluminium-based intermetallics**; E. BELIN-FERRÉ, M. KLANJŠEK, Z. JAGLIĆ, J. DOLINŠEK, J. M. DUBOIS, *J. Phys.: Condens. Matter* **17** (2005) 6911-6924.
- 240) **Magnetic, electrical and thermal transport properties of Al-Cr-Fe approximant phases**; Z. BIHAR, A. BILUSIK, J. LUKATELA, A. SMONTARA, P. JEGLIC, P. McGUINNESS, J. DOLINSEK, Z. JAGLICIC, J. JANOVEC, V. DEMANGE, J.M. DUBOIS, *J. Alloys & Compounds* **407** (2006) 65-73.
- 241) **Electronic structure of leached Al-Cu-Fe quasicrystals used as catalysts**; E. BELIN-FERRÉ, A.M. FONTAINE, J. THIRION, S. KAMEOKA, A.P. TSAI, J.M. DUBOIS, *Phil. Mag.* **86-3-5** (2006) 686-692.
- 242) **Influence of oxidation of i-AlCuFeB particles on the formation of Al-based composites prepared by solid state sintering**; S. KENZARI, P. WEISBECKER, G. GEANDIER, V. FOURNÉE, J.M. DUBOIS, *Phil. Mag.* **86-6-8** (2006) 287-292.
- 243) **Electron microscopy study of approximant phases in Al-Cr-Fe system**; V. DEMANGE, J. GHANBAJA, J.M. DUBOIS, *Phil. Mag.* **86-6-8** (2006) 469-474.
- 244) **Surface energy of complex – and simple – metallic compounds**; J.M. DUBOIS, M.C. de WEERD, M. SALES, G. MOZDZEN, A. MERSTALLINGER, E. BELIN-FERRÉ, *Phil. Mag.* **86-6-8** (2006) 797-805.
- 245) **Wetting of decagonal  $Al_{13}Co$  and cubic AlCo thin films by liquid Pb**; C. BERGMAN, C. GIRARDEAUX, C. PERRIN-PELLEGRINO, P. GAS, D. CHATTAIN, J.M. DUBOIS, N. RIVIER, *Phil. Mag.* **86-6-8** (2006) 849-854.
- 246) **Cold welding and fretting tests on quasicrystals and related compounds**; M. SALES, A. MERSTALLINGER, P. BRUNET, M.C. de WEERD, V. KHARE, G. TRAXLER, J.M. DUBOIS, *Phil. Mag.* **86-6-8** (2006) 965-970.
- 247) **About the role of hybridization in wetting and friction on Al-based complex metallic compounds**; E. BELIN-FERRÉ, J.M. DUBOIS, *Mat. Sc. Eng. A* **449-51** (2006) 971-74.
- 248) **Wetting of aluminium-based complex metallic alloys**; E. BELIN-FERRÉ, J.M. DUBOIS, *Special issue of Zeitschrift für Metallkunde in the Honor of Knut Urban, Int. J. Mat. Res.* **97-7** (2006) 985-995. *Invited paper.*
- 249) **Chemical surface aging in ambient conditions of an Al-Fe-Cr approximant phase**; D. VEYS, P. WEISBECKER, B. DOMENICHINI, S. WEBER, V. FOURNÉE, J.M. DUBOIS, *J. Phys.: Cond. Matter*, **19** (2007) 376207 1-15.
- 250) **Formation of quasicrystals and metallic glasses in relation to icosahedral clusters**; C. DONG, W.R. CHEN, Y.G. WANG, J.B. QIANG, Q. WANG, Y. LEI, M. CALVO-DAHLBORG, J.M. DUBOIS, *J. Non Cryst. Solids*, **32-40** (2007) 3405-11.
- 251) **Model for the transformation of an icosahedral phase into a B2-crystalline phase**; V.S. KRAPOSHIN, A.L. TALIS, HA THANH LAM, J.-M. DUBOIS, *J. Phys. : Cond. Matter* **20** (2008) 235215 (pp).
- 252) **Macroscale and Nanoscale Friction Anisotropy on Decagonal Quasicrystal Surfaces**; J.Y. PARK, D.F. OGLETREE, M. SALMERON, C.J. JENKS, P.A. THIEL, J. BRENNER, J.M. DUBOIS, *J. Mater. Res.* **23-5** (2008) 1488-93.
- 253) **Formation and properties of Al composites reinforced by quasicrystalline AlCuFeB particles**; S. KENZARI, P. WEISBECKER, M. CURULLA, G. GEANDIER, V. FOURNÉE, J. M. DUBOIS, *Phil. Mag.*, **5-11** (2008) 755-66.
- 254) **Measurements of contact angles of water on Al-based intermetallic surfaces**; J.M. DUBOIS, V. FOURNÉE, P.A. THIEL, E. BELIN-FERRÉ, *in special cluster edition, Eds. V. Fournée, J. Ledieu and P.A. Thiel, J. Phys. : Cond. Matter* **20** (2008) 314011 (10 pp.). *Invited paper.*
- 255) **Contact angles of liquid metals on quasicrystals**; C. BERGMAN, C. GIRARDEAUX, C. PERRIN-PELLEGRINO, P. GAS, J.M. DUBOIS, N. RIVIER, *in Special cluster edition, Eds. V. Fournée, J. Ledieu and P.A. Thiel, J. Phys. : Cond. Matter* **20** (2008) 314010 (7 pp.). *Invited paper.*
- 256) **Surface alloys as interfacial layer between quasicrystalline and periodic materials.**; T. DUGUET, J.M. DUBOIS, V. FOURNÉE, *in Special cluster edition, Eds. V. Fournée, J. Ledieu and P.A. Thiel, J. Phys. : Cond. Matter* **20** (2008) 314009 (8 pp.). *Invited paper.*
- 257) **A new orthorhombic approximant of the icosahedral Al-Cu-Fe quasicrystals**; Y. LEI, S. KENZARI, V. DEMANGE, V. FOURNÉE, J. M. DUBOIS, *Phil. Mag. Lett.*, **88-4** (2008) 279-86.
- 258) **Complex metallic alloys in the Ce-Au-Sn system: a study of the atomic and electronic structures**; S. KENZARI, V. DEMANGE, P. BOULET, M.C. DE WEERD, J. LEDIEU, J.M DUBOIS, V. FOURNÉE, *J. Phys. : Cond. Matter*, **20** (2008) 095218-25.
- 259) **Phase transformations induced by nitridation of quasicrystalline AlCuFe powders**; S. KENZARI, D. BONINA, J.M.

- DUBOIS, V. FOURNÉE, *Scripta Mat.* **59** (2008) 583-586.
- 260) **Friction anisotropy: a unique and intrinsic property of decagonal quasicrystals**; J.Y. PARK, D.F. OGLETREE, M. SALMERON, C.J. JENKS, P.A. THIEL, J. BRENNER, J.M. DUBOIS, *J. Mater. Res.* **23-5** (2008) 1488-93.
- 261) **Experimental evidence of the formation of d-like states near the Fermi energy in Complex Metallic Alloys**; E. BELIN-FERRÉ, J.M. DUBOIS, *Phil. Mag.*, **88 13-15** (2008) 2163-70.
- 262) **QCs and CMAs: trends for potential applications**; M.G. BARTHÈS-LABROUSSE, J.M. DUBOIS, *Phil. Mag.*, **88 13-15** (2008) 2217-25.
- 263) **After 25 years on quasicrystals : where are we, where shall we go ? A personal outlook**; J.M. DUBOIS, *Phil. Mag.*, **88 13-15** (2008) 2351-56.
- 264) **Two-fold surface of the decagonal Al-Cu-Co quasicrystal**; T. DUGUET, B. ÜNAL, M.C. de WEERD, J. LEDIEU, R.A. RIBEIRO, P.C. CANFIELD, S. DELOUDI, W. STEURER, C.J. JENKS, J.M. DUBOIS, V. FOURNÉE, P.A. THIEL, *Phys. Rev. B*, **80** (2009) 024201-10.
- 265) **Complex metallic surface phases in the Al/Cu(111) system: an experimental and computational study**; T. DUGUET, E. GAUDRY, T. DENIOZOU, J. LEDIEU, M. C. de WEERD, T. BELMONTE, J.M. DUBOIS, V. FOURNÉE, *Phys. Rev. B* **80** (2009) 205412-1-10.
- 266) **Structure investigation of the (100) surface of the orthorhombic Al<sub>13</sub>Co<sub>4</sub> crystal**; R. ADDOU, E. GAUDRY, T. DENIOZOU, M. HEGGEN, M. FEUERBACHER, P. GILLE, Y. GRIN, R. WIDMER, O. GRÖNING, V. FOURNÉE, J.M. DUBOIS, J. LEDIEU, *Phys. Rev. B*, **80** (2009) 014203-1-10.
- 267) **A new complex hexagonal phase, structurally related to the 1/1 approximant in the Ce-Au-Sn system**; V. DEMANGE, S. KENZARI, P. BOULET, M.C. de WEERD, J. LEDIEU, J.M. DUBOIS, V. FOURNÉE, *J. Alloys Compd.*, **492** (2010) 439-445.
- 268) **Structural investigation of the (010) surface of the orthorhombic T-Al<sub>3</sub>(Mn, Pd) crystal**; TH. DENIOZOU, R. ADDOU, A. K. SHUKLA, M. HEGGEN, M. FEUERBACHER, M. KRAJCI, J. HAFNER, R. WIDMER, O. GROENING, V. FOURNÉE, J.-M. DUBOIS, J. LEDIEU, *Phys. Rev. B* **81** (2010) 125418 1-12.
- 269) **Structurally complex metallic coatings in the Al-Cu system and their orientation relationship with an icosahedral quasicrystal**; T. DUGUET, S. KENZARI, V. DEMANGE, T. BELMONTE, J.M. DUBOIS, V. FOURNÉE, *J. Mat. Research*, **25** (2010) 764-70.
- 270) **Study by optical emission spectroscopy of a physical vapor deposition process for the synthesis of complex AlCuFe(B) coatings**; T. DUGUET, V. FOURNÉE, J.M. DUBOIS, T. BELMONTE, *Surface and Coatings Technology*, **205** (2010) 9-14.
- 271) **Structure investigation of the (110) surface of the  $\gamma$ -Al<sub>3</sub>Cu<sub>9</sub> crystal**; E. GAUDRY, A.K. SHUKLA, T. DUGUET, M.-C. de WEERD, J.M. DUBOIS, V. FOURNÉE, *Phys. Rev. B* **82** (2010) 085411 1-11.
- 272) **Electronic densities of states and pseudo-gaps in Al-based complex intermetallics**; E. BELIN-FERRÉ, Z. DANKHASI, M.-F. FONTAINE, M.C. de WEERD, J.M. DUBOIS, *Croat. Chem. Acta* **83** (2010) 55-58.
- 273) **Structure of the (010) surface of the orthorhombic T-Al<sub>3</sub>(Mn, Pd) crystal**; TH. DENIOZOU, R. ADDOU, A. K. SHUKLA, M. HEGGEN, M. FEUERBACHER, M. KRAJCI, J. HAFNER, R. WIDMER, O. GROENING, V. FOURNÉE, J.-M. DUBOIS, J. LEDIEU, *Phys. Rev. B* **81** (2010) 125418 1-12.
- 274) **First principle study of low index surfaces of the Al<sub>5</sub>Co<sub>2</sub> complex metallic alloy**; S. ALARCON VILASECA, J. M. DUBOIS, E. GAUDRY, *Philosophical Magazine*, *iFirts* (2010) 1-10.
- 275) **Variation of Growth Morphology with Chemical Composition of Terraces: Ag on a Twofold Surface of a Decagonal Al-Cu-Co Quasicrystal**; T. DUGUET, B. ÜNAL\*, Y. HAN, J. W. EVANS, J. LEDIEU, C. J. JENKS, J.M. DUBOIS, V. FOURNÉE, AND P. A. THIEL, *Phys. Rev. B* **82** (2010) 224204-1-8.
- 276) **Complex metallic alloys: clarity through complexity**; J.M. DUBOIS, *Nature Materials*, **9** (2010) 287-88. *Invited paper.*
- 277) **Nanodomains due to phason defects at a quasicrystal surface**; T. DUGUET, B. ÜNAL, J. LEDIEU, J.M. DUBOIS, V. FOURNÉE, P.A. THIEL, *Phys. Rev. Lett.*, **106** (2011) 076101 1-4.
- 278) **Quasicrystals : diversity and complexity**; J.M. DUBOIS, R. LIFSHITZ, *Phil. Mag.*, (2011) 1-12, *iFirst*.
- 279) **So useful, those quasicrystals** ; J.M. DUBOIS, *Israel J. Chem.* **51** (2011) 1168-75. *Invited paper.*
- 280) **Structural investigation of the (001) surface of the Al<sub>9</sub>Co<sub>2</sub> complex metallic alloy** ; S. ALARCON VILASECA, J. LEDIEU, L. N. SERKOVIC LOLI, M.-C. DE WEERD, P. GILLE, V. FOURNÉE, J.-M. DUBOIS, E. GAUDRY, *J. Phys. Chem. C* **115** (2011) 14922-932.
- 281) **Pseudomorphy, surface alloys and role of the elementary clusters on the domain orientations in the Cu/Al<sub>13</sub>Co<sub>4</sub>(100) system** ; R. ADDOU, A. K. SHUKLA, M.-C. de WEERD, P. GILLE, O. GRÖNING, V. FOURNÉE, J.-M. DUBOIS, J. LEDIEU, *J. Phys. : Cond. Matter* **23** (2011) 435009 (14pp).
- 282) **Lead adsorption on the Al<sub>13</sub>Co<sub>4</sub> (100) surface : heterogeneous nucléation and pseudomorphous growth** ; R. ADDOU, A.K. SHUKLA, S. ALARCON VILASECA, E. GAUDRY, T. DENIOZOU, M. HEGGEN, M. FEUERBACHER, R. WIDMER, O. GROENING, J. LEDIEU, J.M. DUBOIS, V. FOURNÉE, *The New Journal of Physics* **13** (2011) 103011 (19pp).
- 283) **Structure of the orthorhombic Al<sub>13</sub>Co<sub>4</sub>(100) surface using LEED, STM and *ab initio* studies** ; HEEKEUN SHIN, K. PUSSI, E. GAUDRY, J. LEDIEU, V. FOURNÉE, S. ALARCON VILASECA, J.-M. DUBOIS, YU. GRIN, P. GILLE, W. MORITZ, R. D. DIEHL, *Phys. Rev. B*, **84** (2011) 085411 1-11.
- 284) **Quasicrystal-polymer composites for selective laser sintering technology** ; S. KENZARI, D. BONINA, J.M. DUBOIS, V. FOURNÉE, *Materials and Design*, **35** (2012) 691-95.
- 285) **Residual stress in as-deposited Al-Cu-Fe-B quasicrystalline thin films** ; S. POLISHCHUK, P. BOULET, A. MEZIN, M.C. de WEERD, S. WEBER, J. LEDIEU, J.M. DUBOIS, V. FOURNÉE, *J. Mater. Res.*, **27-5** (2012) 837-8443.
- 286) **Lead adsorption on the pseudo-tenfold surface of the Al<sub>13</sub>Co<sub>4</sub> complex metallic alloy: a first principle study** ; S. ALARCON VILASECA, J.M. DUBOIS, E. GAUDRY, *Intern. J. Quantum Chem.*, DOI: 10.1002/qua.24142 (2012) 1-7.
- 287) **Les alliages métalliques complexes : de nouveaux matériaux pour la fabrication rapide** ; S. KENZARI, D. BONINA, J.M. DUBOIS, V. FOURNÉE, *L'Actualité Chimique*, **366** (2012) 36-41.
- 288) **Properties, and Applications of Quasicrystals and Complex Metallic Alloys** ; J.M. DUBOIS, *Chemical Society Reviews* **41** (2012) 6760-6777. *Invited paper.*
- 289) **Structural investigation of the (010) surface of the Al<sub>13</sub>Fe<sub>4</sub> catalyst** ; J. LEDIEU, E. GAUDRY, L.N. SERKOVIC LOLI, S. ALARCON VILASECA, M.-C. de WEERD, P. GILLE, Y. GRIN, J.M. DUBOIS, V. FOURNÉE, *Phys. Rev. Lett.*, **110** (2013) 076102 1-5.
- 290) **Structural investigation of Pb absorption on the (010) surface of the orthorhombic T-Al<sub>3</sub>(Mn,Pd) crystal**, R. ADDOU, A.K. SHUKLA, TH. DENIOZOU, M. HEGGEN, M. FEUERBACHER, O. GRÖNING, V. FOURNÉE, J.M. DUBOIS, J. LEDIEU, *Surface Science* **611** (2013) 74-79.
- 291) **Quasicrystals: potential and actual usefulness**; J.M. DUBOIS, *La Gazette du Vide*, **27** (2013) 8-11.
- 292) **Oxygen adsorption on the Al<sub>9</sub>Co<sub>2</sub>(001) surface: first-principles and STM study** ; S. ALARCON VILASECA, L.N.



- SERKOVIC LOLI, J. LEDIEU, V. FOURNEE, P. GILLE, J.-M. DUBOIS, E. GAUDRY, *J. Phys. : Cond. Matter*, **25** (2013) 355003 (8pp).
- 293) **Geometrically frustrated magnetism of spins on icosahedral clusters: The case of  $Gd_4Au_{13}Sn_4$  quasicrystalline approximant** ; P. KOŽELJ, S. JAZBEC, S. VRTNIK, A. JELEN, M. JAGODIČ, Z. JAGLIČIĆ, P. BOULET, M.C. DE WEERD, J.M. DUBOIS, V. FOURNEE, J. DOLINSEK, *Phys. Rev. B*, **88** (2013) 21402 (11p).
- 294) **Complex metallic alloys as new materials for additive manufacturing** ; S. KENZARI, D. BONINA, J.M. DUBOIS, V. FOURNÉE, *Sci. Tech. Adv. Mater.*, **15** (2014) 024802 (9pp). Article invité.
- 295) **Friction and solid-solid adhesion on complex metallic alloys** ; J.M. DUBOIS, E. BELIN-FERRÉ, *Sci. Tech. Adv. Mater.*, **15** (2014) 034804 (20pp). Article invité.
- 296) **Additive manufacturing of lightweight, fully Al-based components using quasicrystals**; S. KENZARI, D. BONINA, J. M. DUBOIS, V. FOURNÉE, *J. Mat. Processing Tech.* **214** (2014) 3108-3111.
- 297) **Electronic Properties and Complexity of Al-based Complex Metallic Alloys (CMAs)**; J.M. DUBOIS, E. BELIN-FERRÉ, *Acta Physica Polonica*, **126** (2) (2014) 453-457.
- 298) **Quasicrystal-polymer composites for additive manufacturing technology**; S. KENZARI, D. BONINA, A. DEGIOVANNI, J.M. DUBOIS, V. FOURNÉE, *Acta Physica Polonica*, **126** (2) (2014) 449-452.
- 299) **L'institut Jean Lamour, sa vie, son œuvre** ; J.M. DUBOIS, *Mémoires de l'Académie de Stanislas, sous presse*.
- 5. Refereed proceedings**
- 300) **Physical properties of amorphous  $Fe_{1-x-y}Si_yB_x$  alloys**; S. AL BIJAT, R. IRALDI, J.M. DUBOIS, G. LE CAER, C. TETE *Rapidly Quenched Metals IV, Sendai, Japon*, **1**, (1981), 375-378.
- 301) **Crystallization of amorphous  $Fe_{1-x-y}Si_yB_x$  alloys**; S. AL BIJAT, R. IRALDI, C. CUNAT, J.M. DUBOIS, G. LE CAER, C. TETE *Rapidly Quenched Metals IV, Sendai, Japon*, **1**, (1981), 687-690.
- 302)  **$^{57}Fe$  Mössbauer spectroscopy in transition metal-metalloid glasses**; J.M. DUBOIS, G. LE CAER *Structure of Non-Crystalline Materials*, (1982) Taylor and Francis, 206-220, ed. P.H. Gaskell, J.M. Parker and E.A. Davis.
- 303) **EXAFS study of  $Co_{1-x}B_x$  glasses**; J.M. DUBOIS, J. GOULON, G. LE CAER, P. LAGARDE *EXAFS and Near-Edge Structure*, (1982), Springer Verlag, Chemical Physics Series, **27**, 284-289, ed. A. Bianconi, L. Incoccia and B. Stipriech.
- 304) **Thickness effects on the determination of EXAFS amplitudes**; J. GOULON, C. GOULON-GINET, R. CORTES, J.M. DUBOIS *EXAFS and Near-Edge Structure*, (1982), Springer Verlag, Chemical Physics Series **27**, 96-97, ed. A. Bianconi, L. Incoccia and B. Stipriech.
- 305) **Caractérisation des matériaux mal cristallisés par spectrométrie Mössbauer : application aux gels**; J.Y. DAUPHIN, J. FOCT, P. PERROT, F. DELBOVE, Z. JOHAN, A. PERRUCHOT, J.M. DUBOIS, G. LE CAER *Vallorisation des Ressources du Sous-Sol, MIR Documents du BRGM, n°61*, (1983).
- 306) **Local parameter distributions in amorphous metals**; G. LE CAER, J.M. DUBOIS, R.A. BRAND *MRS-Europe Meeting, Les Editions de Physique* (1984), 249-254.
- 307) **Hyperfine fields in Fe-rich Fe-B and Fe-C crystalline and amorphous alloys**; G. LE CAER, B. LEMIUS, J. WELFRINGER, E. BAUER-GROSSE, J.M. DUBOIS *MRS-Europe Meeting, Les Editions de Physique* (1984), 265-271.
- 308) **A model for metallic glasses generated by chemical twinning**; J.M. DUBOIS, P.H. GASKELL, G. LE CAER *Rapidly Quenched Metals V, Elsevier*, (1985), 567-572, ed. S. Steeb and H. Warlimont.
- 309) **The chemical twinning model as a possible guide to the choice of new glass forming compositions**; J.M. DUBOIS, G. LE CAER, K. DEGHAN *Rapidly Quenched Metals V, Elsevier*, (1985), 197-202, ed. S. Steeb and H. Warlimont.
- 310) **Structure of metallic glasses**; J.M. DUBOIS *NATO-ASI Summer School : Glasses, Current Issues. Martinus Nijhoff Pub.*, n°92, (1985), 683-684, ed. J. Dupuy and A. Wright.
- 311) **Activation energy for crystallization of amorphous  $Fe_{82}Si_5B_{12}$  alloy**; J. WOLNY, J.M. DUBOIS, J. SOLTYS *Rapidly Quenched Metals V, Elsevier*, (1985), 307-310, ed. S. Steeb and H. Warlimont.
- 312) **Structural criteria for glass forming ability : application to aluminium based alloys**; J.M. DUBOIS, G. LE CAER, K. DEGHAN *Rapid Solidification Technologies of the Undercooled Melt*, (1986), Martinus Nijhoff Pub., n°114, 237-239, ed. R. Sahn, H. Jones, C.M. Adam.
- 313) **Metallic glass structure by  $^{57}Fe$  Mössbauer spectroscopy**; G. LE CAER, J.M. DUBOIS *Metallic and Semi-Conducting Glasses*, ed. A.K. Bhatnagar, *Trans. Tech. Publ., Material Science and Technology*, **3** (1987) 555-565.
- 314) **Neutron diffractometry with Al-transition metal quasicrystals**; J.M. DUBOIS, Chr. JANOT, J. PANNETIER, R. FRUCHART *Metallic and Semi-Conducting Glasses*, ed. A.K. Bhatnagar, *Trans. Tech. Publ., Material Science and Technology*, **1** (1987) 271-274.
- 315) **Nanodemixion and the influence of metalloids on topological order in iron-base glasses**; J.M. DUBOIS, G. LE CAER, S.J. GUEDES DE LIMA *Metallic and Semi-Conducting Glasses*, ed. A.K. Bhatnagar, *Trans. Tech. Publ., Material Science and Technology*, **1** (1987) 89-93.
- 316) **Glass forming compositions in aluminium-base alloys**; J.M. DUBOIS, B. CHENAL, K. DEGHAN, G. LE CAER *Advanced Materials and Processing Techniques. ASM Europe Technical Conf., Paris, Septembre 1987*, 447-456, ed. T. Khan et A. Lasalmonie.
- 317) **Structure of amorphous and liquid aluminium alloys**; B. CHENAL, J.M. DUBOIS, R. BELLISSENT, A. MENELLE *Advanced Materials and Processing Techniques. ASM Europe Technical Conf., Paris, Septembre 1987*, 457-470, Eds. T. Khan et A. Lasalmonie.
- 318) **Etude structurale des phases icosaedriques Al-Mn par variation de contraste en diffusion de neutrons**; Chr. JANOT, J.M. DUBOIS, J. PANNETIER *Mém. Sci. S. F. M.*, **9** (1987) 470.
- 319) **Application de la thermodiffractométrie neutronique en temps réel à l'étude de la cristallisation des phases quasicristallines Al-Mn**; J.M. DUBOIS, J. PANNETIER, Chr. JANOT *Mém. Sci. S. F. M.*, **9** (1987) 471.
- 320) **Neutron diffraction of quasiperiodic structures: contrast variation, isomorphism and pseudo-symmetries**; Chr. JANOT, J.M. DUBOIS, J. PANNETIER *Quasicrystals*, ed. K.H. Kuo, *Trans. Tech. Publ., Materials Science and Technology*, **22-24** (1987) 329-339.
- 321) **Real time study of the crystallization of aluminium-based icosahedral phases by neutron diffraction**; J.M. DUBOIS, J. PANNETIER, Chr. JANOT *Quasicrystals*, ed. K.H. Kuo, *Trans. Tech. Publ., Materials Science and Technology*, **22-24** (1987) 311-328.
- 322) **Pair distribution functions in icosahedral and hexagonal Al-Si-Mn**; J.M. DUBOIS, Chr. JANOT, M. de BOISSIEU *Quasicrystalline Materials, World Scientific*, (1988), 97-106, ed. Chr. Janot et J.M. Dubois.
- 323) **Experimental determination of atomic decoration in an Al-Mn-Si quasicrystal**; Chr. JANOT, J.M. DUBOIS, J. PANNETIER, M. de BOISSIEU, R. FRUCHART *Quasicrystalline Materials, World Scientific*, (1988), 107-125, ed. Chr.

- Janot et J.M. Dubois.
- 324) **A study of photographic films of polychromatic neutron diffraction effects related to quasiperiodic crystals;** J.C. MARMEGGI, Chr. JANOT, J.M. DUBOIS *Quasicrystalline Materials*, World Scientific, (1988), 126-135, ed. Chr. Janot et J.M. Dubois.
  - 325) **Comparative study using EXAFS of decagonal, icosahedral and amorphous Al-Mn alloys;** A. SADO, A.M. FLANCK, P. LAGARDE, J.M. DUBOIS *Quasicrystalline Materials*, World Scientific, (1988), 137-148, ed. Chr. Janot et J.M. Dubois.
  - 326) **The structure of quasicrystals: advantages and limits of a neutron diffraction approach;** Chr. JANOT, M. de BOISSIEU, J.M. DUBOIS *Quasicrystals*, eds M. Jaric and S. Lundqvist, World Scientific, Singapore, p. 34-59 (1990).
  - 327) **About atomic structure of the Al-Li-Cu icosahedral phase;** M. de BOISSIEU, Chr. JANOT, J.M. DUBOIS, M. AUDIER, M. JARIC, B. DUBOST *Quasicrystals*, eds M. Jaric and S. Lundqvist, World Scientific, Singapore, p. 109-129 (1990).
  - 328) **Atomic structure of the icosahedral Al-Li-Cu quasicrystal;** M. de BOISSIEU, Chr. JANOT, J.M. DUBOIS, J. PANNETIER, M. AUDIER, B. DUBOST *IUCr Satellite Meeting : Symmetry in Physical Space and Superpaces, Quasicrystals, Incommensurate Phases*, Chatenay, 29-31 juillet 1990.
  - 329) **Computer simulation of glass formation in two dimensional networks;** F. MONTROYA, J.M. DUBOIS *Ordering and Disorder in Alloys*, ed. A.R. Yavari, Elsevier, London (1991), 356-363.
  - 330) **Reverse Monte Carlo simulations of the Ni<sub>81</sub>B<sub>19</sub> metallic glass;** C. BACK, J.M. DUBOIS, R. BELLISSENT *Methods in the determination of partial structure factors*, eds. J.B. Suck, P. Chieux, D. Raoux, C. Riekel, World Scientific, Singapore (1993) 218-224.
  - 331) **Hume-Rothery phases with constant e/a value and their related electronic properties in Al-Cu-Fe(-Cr) quasicrystalline systems;** C. DONG, A. PERROT, J.M. DUBOIS, E. BELIN *Trans. Tech. Pub.*, 150-151 (1994) 403-416.
  - 332) **Thermal conductivity and Lorentz number in AlCuFe and AlPdMn icosahedral quasicrystals;** A. PERROT, J.M. DUBOIS, M. CASSART, J.P. ISSI *Proceedings ICQ5*, Eds. C. Janot et R. Mosseri, World Scientific, Singapour (1995) 588-591
  - 333) **Friction response and brittleness of pure icosahedral Al<sub>62</sub>Cu<sub>25.5</sub>Fe<sub>12.5</sub> quasicrystals;** J. von STEBUT, C. STROBEL, J.M. DUBOIS *Proceedings ICQ5*, Eds. C. Janot et R. Mosseri, World Scientific, Singapour (1995) 704-713
  - 334) **Electrochemical corrosion behaviour of quasicrystalline coatings in dilute acetic acid;** Y. MASSIANI, S. AIT YAAZZA, J.M. DUBOIS *Proceedings ICQ5*, Eds. C. Janot et R. Mosseri, World Scientific, Singapour (1995) 790-793
  - 335) **Aluminium-Cobalt thin film reactions : role of the interfaces on phases formation;** C. BERGMAN, P. DONNADIEU, J.M. DUBOIS, P. GAS *Proceedings ICQ5*, Eds. C. Janot et R. Mosseri, World Scientific, Singapour (1995) 774-777.
  - 336) **A survey of the potential applications of quasicrystals;** J.M. DUBOIS, *New Horizons in Quasicrystals : Research and Applications*, eds A.I. Goldman, D.J. Sordelet, P.A. Thiel and J.M. Dubois, World Scientific, Singapore (1997) p. 208-215.
  - 337) **Friction behaviour of pure quasicrystalline materials;** J. von STEBUT, J.M. SORO, P. PLAINDOUX, J.M. DUBOIS, *New Horizons in Quasicrystals : Research and Applications*, eds A.I. Goldman, D.J. Sordelet, P.A. Thiel and J.M. Dubois, World Scientific, Singapore (1997) p. 248-255.
  - 338) **Hume-Rothery alloys, quasicrystals and their characteristic electronic distributions;** E. BELIN-FERRE, V. FOURNEE, J.M. DUBOIS, *New Horizons in Quasicrystals : Research and Applications*, eds A.I. Goldman, D.J. Sordelet, P.A. Thiel and J.M. Dubois, World Scientific, Singapore (1997) p. 9-16.
  - 339) **Thermodynamic and kinetic analysis of the formation of quasicrystalline and approximant phases in Al/Co thin film reactions;** E. EMERIC, C. BERGMAN, J.M. DUBOIS, G. CLUGNET, P. GAS, *Quasicrystals*, eds. S. Takeuchi et T. Fujiwara, World Scientific Singapore (1998) p 281-284.
  - 340) **Al electronic states distributions in approximant and quasicrystalline intermetallics and in Hume-Rothery phases;** E. BELIN-FERRE, V. FOURNEE, J.M. DUBOIS, A. SADO, *Quasicrystals*, eds. S. Takeuchi et T. Fujiwara, World Scientific Singapore (1998) p 603-606
  - 341) **Surface energy of icosahedral quasicrystals;** J.M. DUBOIS, P. PLAINDOUX, E. BELIN-FERRE, N. TAMURA, D.J. SORDELET, *Quasicrystals*, eds. S. Takeuchi et T. Fujiwara, World Scientific Singapore (1998) p733-740.
  - 342) **Surface study of oxidation of the AlCuFe icosahedral quasicrystal;** M. GAVATZ, D. ROUXEL, D. CLAUDEL, P. PIGEAT, B. WEBER, J.M. DUBOIS, *Quasicrystals*, eds. S. Takeuchi et T. Fujiwara, World Scientific Singapore (1998) p765-768.
  - 343) **Material transfer and surface damage in frictional contact of Al-Cu-Fe quasicrystals;** I.L. SINGER, J.M. DUBOIS, J.M. SORO, D. ROUXEL, J. von STEBUT, *Quasicrystals*, eds. S. Takeuchi et T. Fujiwara, World Scientific Singapore (1998) p769-772.
  - 344) **Influence of crystal structure and purity of nominally identical Al-Cu-Fe quasicrystals and their friction and wear behaviour;** J. von STEBUT, C. COMTE, M. ZANDONA, J.M. DUBOIS, D.J. SORDELET, *Quasicrystals*, eds. S. Takeuchi et T. Fujiwara, World Scientific Singapore (1998) p 777-781.
  - 345) **Concluding remarks: at the edge of a new era in quasicrystal science;** J.M. DUBOIS, *Quasicrystals*, eds. S. Takeuchi et T. Fujiwara, World Scientific Singapore (1998) p 785-791.
  - 346) **Hierarchical nature of the Brillouin zone in icosahedral Al<sub>59</sub>B<sub>3</sub>Cu<sub>25.5</sub>Fe<sub>12.5</sub> deduced from IR spectroscopy at 10K;** B. VIGNERON, A. PERROT, F. MACHIZAUD, J.M. DUBOIS, *Aperiodic'97*, eds. M. de Boissieu, J.L. Verger-Gaugry et R. Currat, World Scientific, Singapour (1999), p. 721-726.
  - 347) **Emissivity and oxidation of icosahedral Al<sub>62</sub>Cu<sub>25.5</sub>Fe<sub>12.5</sub>;** P. PIGEAT, M. GIL-GAVATZ, D. CLAUDEL, D. ROUXEL, J.M. DUBOIS, B. WEBER, *Aperiodic'97*, eds. M. de Boissieu, J.L. Verger-Gaugry et R. Currat, World Scientific, Singapour (1999), p. 789-793.
  - 348) **Study of Al surface segregation in icosahedral AlCuFe;** M. GIL-GAVATZ, D. ROUXEL, P. PIGEAT, B. WEBER, J.M. DUBOIS, *Quasicrystals, Preparation, Properties and Applications*, Eds. J.M. Dubois, P.A. Thiel, A.P. Tsai and K. Urban, Mater. Res. Soc. Proc., Warrendale (1999), p. 75-82.
  - 349) **Room temperature oxidation of Al-Cu-Fe and Al-Cu-Fe-Cr quasicrystals;** P.J. PINHERO, D.J. SORDELET, J.W. ANDEREGG, P. BRUNET, J.M. DUBOIS, P.A. THIEL *Quasicrystals, Preparation, Properties and Applications*, Eds. J.M. Dubois, P.A. Thiel, A.P. Tsai and K. Urban, Mater. Res. Soc. Proc., Warrendale (1999), p. 263-266.
  - 350) **Optical properties of icosahedral AlBCuFe quasicrystalline alloy;** V. DEMANGE, B. VIGNERON, F. MACHIZAUD, J.M. DUBOIS, *Quasicrystals, Preparation, Properties and Applications*, Eds. J.M. Dubois, P.A. Thiel, A.P. Tsai and K. Urban, Mater. Res. Soc. Proc., Warrendale (1999), p. 391-396.
  - 351) **Thermal and electronic properties of an AlCoFeCr approximant of the decagonal phase;** P. ARCHAMBAULT, P. PLAINDOUX, E. BELIN-FERRE, J.M. DUBOIS, *Quasicrystals, Preparation, Properties and Applications*, Eds. J.M. Dubois, P.A. Thiel, A.P. Tsai and K. Urban, Mater. Res. Soc. Proc., Warrendale (1999), p. 409-414.

- 352) **Preparation and properties of solar selective absorbers based on AlCuFe and AlCuFeCr thin films: industrial aspects**; T. EISENHAMMER, H. NOLTE, W. ASSMANN, J.M. DUBOIS, *Quasicrystals, Preparation, Properties and Applications*, Eds. J.M. Dubois, P.A. Thiel, A.P. Tsai and K. Urban, Mater. Res. Soc. Proc., Warrendale (1999), p. 435-446.
- 353) **Phase transitions in quasicrystals induced by friction and wear**; C. DONG, J. WU, L. ZHANG, J.M. DUBOIS, P. BRUNET, Q. ZHOU, D. WANG, H. ZHANG, Eds. E. Belin-Ferré, P.A. Thiel, A.P. Tsai and K. Urban, Mater. Res. Soc. Proc., Warrendale 643 (2001) K7.5.1-11.
- 354) **X-ray diffraction study of the transformation of an Al-Cu-Fe atomized powder upon annealing at 500°C**; P. WEISBECKER, G. BONHOMME, A. CAEL, L. ZHANG, J.M. DUBOIS, Eds. E. Belin-Ferré, P.A. Thiel, A.P. Tsai and K. Urban, Mater. Res. Soc. Proc., Warrendale 643 (2001) K9.2.1-5.
- 355) **Beyond the usefulness of quasicrystals**; J.M. DUBOIS, Eds. E. Belin-Ferré, P.A. Thiel, A.P. Tsai and K. Urban, Mater. Res. Soc. Proc., Warrendale 643 (2001) K15.1.1-9.
- 356) **Electronic structure of Al-Cr-Fe intermetallics**; E. BELIN-FERRE, Z. DANKHAZI, M.-F. FONTAINE, J. THIRION, M.-C. de WEERD, J.-M. DUBOIS, *Quasicrystals 2003 – Preparation, Properties, and Applications*, Eds. E. Belin-Ferré, M. Feuerbacher, Y. Ishii and D.J. Sordelet, MRS Proc. 805 (2004) 143-148.
- 357) **Wetting and friction on quasicrystals and related compounds**; J.M. DUBOIS, V. FOURNÉE, E. BELIN-FERRÉ, *Quasicrystals 2003 – Preparation, Properties, and Applications*, Eds. E. Belin-Ferré, M. Feuerbacher, Y. Ishii and D.J. Sordelet, MRS Proc. 805 (2004) 287-298.
- 358) **Aging of the surface of an Al-Cr-Fe approximant phase in ambient conditions: chemical composition and physical properties**; D. VEYS, P. WEISBECKER, V. FOURNÉE, B. DOMENICHINI, S. WEBER, C. RAPIN, J.M. DUBOIS, *Quasicrystals 2003 – Preparation, Properties, and Applications*, Eds. E. Belin-Ferré, M. Feuerbacher, Y. Ishii and D.J. Sordelet, MRS Proc. 805 (2004) 305-311.
- 359) **Quasicrystals: a new type of materials to prevent cold-welding**; M. SALES, A. MERSTALLINGER, P. BRUNET, M.C. DE WEERD, V. KHARE, G. TRAXLER, J.M. DUBOIS, *Proceedings of the ESA 2005 European Conference on Spacecraft Structures Materials and Mechanical Testing*, Ref. SP-58, Noordwijk, Holland, May 2005.
- 360) **Cold welding and fretting tests on quasicrystal coatings under vacuum**; M. SALES, A. MERSTALLINGER, M. CEKADA, J. DOLINSEK, A.I. USTINOV, S.S. POLISHCHUK, P. BRUNET, J.M. DUBOIS, *Proceedings of the 10th Symposium on Materials in a Space environment, Collioure, France, 19-23 Juin 2006 (ESA SP-616) - ISBN 92-9092-927-8 ISSN 1609-042 X*.
- 361) **Structure of the Al<sub>2</sub>Cu(001) and Al<sub>3</sub>Co<sub>2</sub>(001) surfaces: role of the covalent-like bonding network and off-stoichiometric effects**; E. GAUDRY, S. ALARCON VILLASECA, J. LEDIEU, J.M. DUBOIS, V. FOURNÉE, MRS Fall 2012, MRS Warrendale, 1517 (2013) DOI 10.1557.
- 362) **Push-pull alloys and the legacy of Dan Shechtman**; J.M. DUBOIS, *Proceedings of the 2014 Sustainable Industrial Processing Submit & Exhibition, Shechtman International Symposium, Cancun (Mexico), 30/06-04/07/2014, in press*.

## 6. Miscellaneous, with no refereeing

- 363) **Caractérisation des matériaux mal cristallisés par spectrométrie Mössbauer : application aux gels**; J.Y. DAUPHIN, J. FOCT, P. PERROT, F. DELBOVE, Z. JOHAN, A. PERRUCHOT, J.M. DUBOIS, G. LE CAER *Valorisation des Ressources du Sous-Sol, MIR Documents du BRGM, n°61, (1983)*.
- 364) **Etude par diffusion de neutrons de l'ordre local dans les alliages amorphes à base d'aluminium**; J.M. DUBOIS, K. DEGHAN, P. WEINLAND, P. CHIEUX, S. DERMARKAR C. R. Ac. Sc. Paris, pli cacheté n° 16526 du 7.01.1985 à paraître au plus tard 50 ans après le dépôt du pli cacheté.
- 365) **Structure of metallic glasses**; J.M. DUBOIS NATO-ASI Summer School: Glasses, Current Issues. Martinus Nijhoff Pub., n°92, (1985), 683-684, ed. J. Dupuy and A. Wright.
- 366) **Etude de la cristallisation d'alliages Fe<sub>0,9-z</sub>B<sub>0,1</sub>C<sub>z</sub> amorphes**; A. BILDE, J. GUEDES DE LIMA, J.M. DUBOIS *Mém. Sci. S. F. M.*, 9, (1985), 477.
- 367) **Etude de la cristallisation de l'alliage Al<sub>80</sub>Cu<sub>10</sub>Ni<sub>8</sub>Mo<sub>2</sub> amorphe**; K. DEGHAN, J.M. DUBOIS, G. LE CAER, A. PIANELLI *Mém. Sci. S. F. M.* 9, (1985), 485.
- 368) **Métallurgie des phases quasi-cristallines Al-Mn : premiers résultats de diffraction**; J.M. DUBOIS, Chr. JANOT, J. PANNETIER, A. PIANELLI, J.P. HOUIN, P. WEINLAND *Mém. Sci. S. F. M.* 9 (1986) 472.
- 369) **Cristalização de Ligas Amorfos Fe<sub>0,9-z</sub>B<sub>0,1</sub>C<sub>z</sub>**; S.J. GUEDES DE LIMA, J.M. DUBOIS *7e Congresso Brasileiro de Engenharia E Ciencia dos Materiais, Florianopolis (Brésil) 10-12.12.1986*, p. 435-437.
- 370) **Análise dos produtos de cristalização de ligas amorfos Fe<sub>0,9-z</sub>B<sub>0,1</sub>C<sub>z</sub>**; S.J. GUEDES DE LIMA, J.M. DUBOIS *7e Congresso Brasileiro de Engenharia E Ciencia dos Materiais, Florianopolis (Brésil) 10-12.12.1986*, p. 439-442.
- 371) **Glass forming compositions in aluminium-base alloys**; J.M. DUBOIS, B. CHENAL, K. DEGHAN, G. LE CAER *Advanced Materials and Processing Techniques. ASM Europe Technical Conf., Paris, Septembre 1987*, 447-456, ed. T. Khan et A. Lasalmonie.
- 372) **Structure of amorphous and liquid aluminium alloys**; B. CHENAL, J.M. DUBOIS, R. BELLISSENT, A. MENELLE *Advanced Materials and Processing Techniques. ASM Europe Technical Conf., Paris, Septembre 1987*, 457-470, ed. T. Khan et A. Lasalmonie.
- 373) **Etude structurale des phases icosaédriques Al-Mn par variation de contraste en diffusion de neutrons**; Chr. JANOT, J.M. DUBOIS, J. PANNETIER *Mém. Sci. S. F. M.*, 9 (1987) 470.
- 374) **Application de la thermodiffraction neutronique en temps réel à l'étude de la cristallisation des phases quasi-cristallines Al-Mn**; J.M. DUBOIS, J. PANNETIER, Chr. JANOT *Mém. Sci. S. F. M.*, 9 (1987) 471.
- 375) **Neutron diffraction study of isotropic disorder**; J.M. DUBOIS, GALERNE: *European Workshop on Solid State Chemistry Proceedings (1988)*.
- 376) **Atomic structure of the icosahedral Al-Li-Cu quasicrystal**; M. de BOISSIEU, Chr. JANOT, J.M. DUBOIS, J. PANNETIER, M. AUDIER, B. DUBOST *IUCr Satellite Meeting : Symmetry in Physical Space and Superpaces, Quasicrystals, Incommensurate Phases, Chatenay, 29-31 juillet 1990*.
- 377) **Estudo da cristalização de ligas Fe-Al-B**; S.J. GUEDES DE LIMA, J.M. DUBOIS *X Congrès Brésilien de Science et Génie des Matériaux, Rio, Brésil, Décembre 1992*, 781-783.
- 378) **Uma análise dos produtos da cristalização de ligas amorfos Fe<sub>81</sub>Al<sub>4</sub>B<sub>15</sub> e Fe<sub>77</sub>Al<sub>8</sub>B<sub>15</sub>**; S.J. GUEDES DE LIMA, J.M. DUBOIS *X Congrès Brésilien de Science et Génie des Matériaux, Rio, Brésil, Décembre 1992*, 728-731.
- 379) **Un estudo de ligas Fe-B-C amorfos utilizando espectroscopia Mössbauer**; S.J. GUEDES DE LIMA, J.M. DUBOIS *X I Congrès Brésilien de Science et Génie des Matériaux, Agnas de Sao Pedro, Brésil, Décembre 1994* 549-552.
- 380) **Pseudo-gaps in Al electronic distributions of Al-based crystalline and quasicrystalline intermetallics**; E. BELIN-FERRE, V. FOURNÉE, Z. DANKHAZI, J.M. DUBOIS, *Actes de Int. Workshop on Aperiodic Structures, Krakow, Poland*,



1-5 juillet 1996.

- 381) **Investigation by TEM of metallic clusters (Co, Ni, Cu, ...) prepared by solution chemistry**; S. ILLY, O. TILLEMENT, Y. FORT, F. MASSICOT, J. GHANBAJA, J.M. DUBOIS, *14th Int. Congress on Electron Microscopy, Cancun (Mexique), vol. II (1998) 435-36.*
- 382) **La cuisine au pentagone**; J.M. DUBOIS, *Optim'ist, Bulletin interne de l'INIST, n°3 juillet 1999.*
- 383) **Quasicrystals, properties and promises**; J.M. DUBOIS, *The ASM San Diego Chapter News Letter, Nov. 2000 issue.*
- 384) **L'instrument SIS, de la science à l'ingénierie des surfaces**; T. BELMONTE, J. LEDIEU, T. DUGUET, J.M. DUBOIS, V. FOURNÉE, *La Gazette du Vide, 21 (2010) 2-3.*
- 385) **Les atomes, le nombre d'or, et les alliages métalliques complexes** ; J.M. DUBOIS, *Mémoires de l'Académie de Stanislas de Nancy, 8<sup>ème</sup> série, tome XXIII (2011) 261-270.*

## 7. Patents

- 386) **Alliages d'aluminium amorphes ou microcristallins.**  
J.M. DUBOIS, G. LE CAER

FRANCE : déposé le 06-07-1982, FR 2529909, délivré le 01-12-1986  
EUROPE : EP 100287, délivré le 12-11-1986  
U.S.A. : 4595429, délivré le 17-06-1986  
U.S.A. : n° 4710246, délivré le 01-12-1987  
CANADA : n° 1214665, délivré le 02-12-1986  
DANEMARK : n° 163883, délivré le 14-09-1992  
ISRAEL : n° 69123, délivré le 01-07-1987  
JAPON : n° 1536547, délivré le 28-03-1989  
NORVEGE : n° 160862, délivré le 06-07-1989

- 387) **Matériaux de revêtement en alliage d'aluminium.**  
J.M. DUBOIS, P. WEINLAND

FRANCE : déposé le 04-08-1988, n° 2635117, délivré le 23-04-1993  
EUROPE : n° 0356287, délivré le 06-07-1994  
U.S.A. : n° 5204191, délivré le 20-04-1993  
JAPON : n° 508851/89 du 02-08-1989  
CANADA : n° 607461, délivré le 06-12-1994  
MALAISIE : n° MY-106241-A, délivré le 29-04-1995  
PCT : FR89/00403 du 02-08-1989

- 388) **Alliages d'aluminium à propriétés spécifiques.**  
J.M. DUBOIS, A. PIANELLI

FRANCE : déposé le 18-01-1991, n° 2671808, délivré le 17-06-1994  
EUROPE : 92904842.9, déposé le 15-01-1992  
USA : n° 5432011, délivré le 11-07-1995  
JAPON : 505001/92 du 15-01-1992  
AUSTRALIE : n° 648876, délivré le 04-03-1994  
PCT : FR92/00030 du 15-01-1992

- 389) **Cordon pour revêtement par projection au chalumeau et son utilisation pour déposer sur un substrat une phase quasicristalline.**  
J.M. DUBOIS, M. DUCOS, R. NURY

FRANCE : déposé le 13-03-1991, n° 2673871, délivré le 10-03-1995  
EUROPE : n° 92400637.2-2106 du 11-03-1992  
USA : n°5424127, délivré le 13-06-1995  
CANADA : 2062547 du 09-03-1992  
AUSTRALIE n° 649109, délivré le 30-08-1994  
JAPON : n° 54646/92 du 29-03-1994  
POLOGNE : P293821 du 12-03-1992.

- 390) **Élément de protection thermique constitué par un alliage d'aluminium quasicristallin.**  
J.M. DUBOIS, P. ARCHAMBAULT, B. COLLERET

FRANCE : déposé le 20-12-1991, n° 2685349, délivré le 25-03-1994  
EUROPE : 93902342 du 17-12-1992  
CANADA : 2106399 du 17-12-1992  
USA : 08/098317 du 17-12-1992  
JAPON : 511479/93 du 17-12-1992  
PCT : FR92/01197 du 17-12-1992

- 391) **Revêtements métalliques à base d'alliages amorphes résistant à l'usure et à la corrosion.**  
J.M. DUBOIS, P. PLAINDOUX, J.P. HOUIN, J.M. ROMAN  
FRANCE : n° 92/06535, déposé le 22-05-92

- 392) **Barrières thermiques à résistance améliorée au choc thermique.**  
J.M. DUBOIS, Ph. CATHONNET

FRANCE : déposé le 23-12-1992, n° 2699554 délivré le 24-02-1995  
AUSTRALIE : n° 52719/93 du 23-12-1993  
CANADA : n° 2112191 du 22-12-1993

EUROPE : n° 93403009.9 du 13-12-1993  
JAPON : n° 5-345555 du 22-12-1993  
POLOGNE : n° P-301607 du 22-12-1993  
USA : n° 5472920, délivré le 05-12-1995

- 393) **Dispositifs pour l'absorption du rayonnement infrarouge comprenant un élément en alliage quasicristallin.**  
F. MACHIZAUD, J.M. DUBOIS  
  
FRANCE : n° 95.03939, déposé le 04.04.95
- 394) **Revêtement en matériau quasicritallin pour chapeau de brûleur à gaz.**  
MESLIF, J.M. DUBOIS, B. BUCAILLE  
  
FRANCE : n° 95.09310, déposé le 31-07-95
- 395) **Procédé de préparation d'alliages quasicristallins AlCuFeMB, les alliages obtenus et leurs applications.**  
J.M. DUBOIS, P. ARCHAMBAULT, L. BRESSON, P. CATHONNET  
  
FRANCE : déposé le 23-02-96, n° 96.02224
- 396) **Recubrimientos quasicristalinos tipo barrera termica para la proteccion de componentes de las zonas calientes de turbinas.**  
M. TORRES ALBARSANZ, J.M. DUBOIS, J.M. ALGABA GONZALO, P. ARCHAMBAULT, F.J. GARCIA DEBLAS VILLANUEVA  
  
ESPAGNE : déposé le 04-10-96, n° P9602084.
- 397) **Particules polymétalliques ultrafines, leur préparation et leur utilisation pour l'hydrogénation d'oléfines ou pour le couplage de dérivés halogénés aromatiques.**  
J.M. DUBOIS, Y. FORT, O. TILLEMENT  
  
FRANCE : déposé le 23-09-1997, n° 97.11814.
- 398) **Matériau constitué par des particules métalliques et par des particules d'oxyde ultrafines**  
J.M. DUBOIS, Y. FORT, O. TILLEMENT  
  
FRANCE : déposé le 20-10-1998, n° 98.13113.
- 399) **Revêtement en alliage d'aluminium, pour ustensile de cuisson.**  
J.M. DUBOIS, V. DEMANGE, M.C. de WEERD, S. RAFFY.  
  
FRANCE : déposé le 16-02-2004, n° 04.01536.  
EUROPE : déposé le 09.02.2005, n° 05 717 591.1.  
CANADA : déposé le 09.02.2005, n°2,554,285, délivré le 27.11.2012.