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List of publications by Jean-Marie Dubois
December 2015.

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, Singapore (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, Warendale (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 g₂**; 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, Singapore*, 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, Singapore (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'Asq, 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 Fe₃C et Fe₅C₂**; G. LE CAER, J.M. DUBOIS, J.P. SENATEUR *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 liquid apparatus**; J.M. DUBOIS *J. Phys. E : Sci. Instruments 11, (1978), 76-78.*
- 46) **Mössbauer effect study of iron carbides II : (Mn_{1-x}Fe_x)₅SiC**; 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 157, (1978), 127-12.*
- 48) **Mössbauer Spectroscopy of various interstitial compounds and solid solutions containing ⁵⁷Fe** : 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.*
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- 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.*
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- 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_{1-x}B_x 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-Co₈₂B₁₈ glass**; J.M. DUBOIS, P. CHIEUX, G. LE CAER, J. SCHWEITZER, J. BLETRY *J. Phys (Paris) 43 (1982) C9-23-29.*
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- 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 ⁵⁷Fe 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.
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- 68) **Sign determination of the ⁵⁷Fe quadrupole splitting in an amorphous Fe₂₅Zr₇₅ alloy**; G. LE CAER, J.M. CADOGAN, R.A. BRAND, J.M. DUBOIS, H. GUNTHERODT *J. Phys. F: Metal Physics* 14, (1984), L73-78.
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- 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.
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- 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.
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- 91) **Les verres métalliques**; J.M. DUBOIS, G. LE CAER *Le Courrier du CNRS, Images des Matériaux*, 66 (1987) 3-8. *Invited paper.*
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- 117) **The magnetic transition in Fe-substituted hexagonal β -Al₇₄Si₆Mn₂₀ phase**; R.A. BRAND, G. LE CAER, J.M. DUBOIS, F. HIPPERT, Ch. SAUER, J. PANNETIER *J. Phys. : Cond. Matter*, 2 (1990) 3855-65.
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