

ARMANDO J.L. POMBEIRO

PUBLICATIONS

I - BOOKS, CONTRIBUTIONS IN BOOKS OR REVIEWS (usually invited ones)

- I.1 A.J.L. Pombeiro, "Isonitrile and Derived Carbyne Complexes of Molybdenum and Tungsten", D. Phil. Thesis, University of Sussex, U.K., 1976 (227 pages).
- I.2 A.J.L. Pombeiro, "Preparation, Structure, Bonding and Reactivity of Dinitrogen Complexes", Chapter 6, in "New Trends in the Chemistry of Nitrogen Fixation", J. Chatt, L.M. Câmara Pina and R.L. Richards (eds.), Academic Press, London, 1980, pp. 153-197; Academy of Sciences of Lisbon edition, 1980, Chapter VI, pp. 163-209; MIR Editions, 1983, Chapter 6, pp.164-213 (Russian translation).
- I.3 A.J.L. Pombeiro, "Reactions of Ligands Analogous to Dinitrogen on Dinitrogen Binding Sites", Chapter 10, in "New Trends in the Chemistry of Nitrogen Fixation", J. Chatt, L.M. Câmara Pina and R.L. Richards (eds.), Academic Press, London, 1980, pp. 249-274; Academy of Sciences of Lisbon edition, 1980, Chapter X, pp.267-294; MIR Editions, 1983, Chapter 10, pp. 266-293 (Russian translation).
- I.4 Author of the book** "Techniques and Unit Operations in Laboratory Chemistry", (in Portuguese), University Series, Calouste Gulbenkian Foundation, Lisbon, 1983 (1st edition), 1991 (2nd edition), 1998 (3rd edition), 2003 (4th edition) (1070 pages).
- I.5 A.J.L. Pombeiro, "Electrochemistry of Transition Metal Complexes", *Portugaliae Electrochimica Acta*, Academy of Sciences of Lisbon, 1983, 1, 19-143.
- I.6 A.J.L. Pombeiro, "Properties of Transition Metal Centres in Nitrogen Fixation", *Rev. Port. Quím.*, 1984, 26, 30-60.
- I.7 A.J.L. Pombeiro*, R.L. Richards, "Diisocyanide Complexes of Molybdenum(0) and Tungsten(0) and Derived Aminocarbyne Complexes", *Inorg. Synth.*, 1985, 23, 9-14.
- I.8 A.J.L. Pombeiro, "Alkynes – Versatile Reagents in Coordination Chemistry, Synthesis and Chemical Industry" (in Portuguese), *Técnica*, 1987, no. 1. 87, 2-24.
- I.9 A.J.L. Pombeiro, "Activation of Unsaturated C≡C and C≡N Bonds: Formation of Metal-Carbon Multiple Bonds", in "Coordination Chemistry and Catalysis", J.J. Ziolkowski (ed.), World Scientific Publishing Co., Singapore, 1988, pp. 100 -124.
- I.10 A.J.L. Pombeiro* "Reactions of Alkynes at Mononuclear Electron-Rich Transition Metal Centres", *J. Organomet. Chem.*, 1988, 358, 273-282 (25th anniversary celebratory issue). [http://dx.doi.org/10.1016/0022-328X\(88\)87083-9](http://dx.doi.org/10.1016/0022-328X(88)87083-9)
- I.11 A.J.L. Pombeiro "Carbene Complexes Derived from the Activation of Isocyanides and Alkynes by Electron-Rich Transition Metal Centres", in "Advances in Metal Carbene Chemistry" (NATO Advanced Research Workshop), U. Schubert (ed.), NATO ASI Series, Kluwer Academic Publishers, Springer, Dordrecht, The Netherlands, 1989, pp. 79-99. http://dx.doi.org/10.1007/978-94-009-2317-1_10
- I.12 A.J.L. Pombeiro, "Electrophilic β-Addition to Isocyanide, Cyanide and Alkyne-Derived Ligands", *Polyhedron*, 1989, 8, 1595-1600. [http://dx.doi.org/10.1016/S0277-5387\(00\)80602-6](http://dx.doi.org/10.1016/S0277-5387(00)80602-6)
- I.13 A.J.L. Pombeiro*, R.L. Richards, " *trans*-Bis[1,2-ethanediylbis(diphenylphosphine)]bis(isocyanomethane)tungsten(0)", in "Reagents for Transition Metal Complex and Organometallic Synthesis" R.J. Angelici (ed.), *Inorg. Synth.* 1990, 28, 43-45.

- I.14 A.J.L. Pombeiro*, R.L. Richards, "Reactions of Alkynes, Isocyanides and Cyanides at Dinitrogen-Binding Transition Metal Centres", *Coord. Chem. Rev.*, 1990, *104*, 13-38. [http://dx.doi.org/10.1016/0010-8545\(90\)80039-V](http://dx.doi.org/10.1016/0010-8545(90)80039-V)
- I.15 Coordinator of the book** "Cold Nuclear Fusion - Analysis and Perspectives" (in Portuguese), Academy of Sciences of Lisbon, 1991; and author of the following chapter therein: J.J.R. Fraústo da Silva, A.J.L. Pombeiro*, "Cold Nuclear Fusion - the Fleischmann and Pons Electrochemical Route", pp. 35-61.
- I.16 A.J.L. Pombeiro, "Coordination Chemistry of Nitriles and Cyanamide at Electron-Rich Metal Centres", *Inorg. Chim. Acta*, 1992, *198-200*, 179-186 (celebratory issue). [http://dx.doi.org/10.1016/S0020-1693\(00\)92359-4](http://dx.doi.org/10.1016/S0020-1693(00)92359-4)
- I.17 Editor of the book** "Molecular Electrochemistry of Inorganic, Bioinorganic and Organometallic Compounds", A.J.L. Pombeiro and J. McCleverty (eds.), NATO ASI Series, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1993 (comprising the full texts of the contributions presented at the NATO Advanced Research Workshop, under the same theme, held in Sintra, Portugal, 1992), [one "key" paper (see I.18) and six short papers (see II.100- II.105)]. <http://dx.doi.org/10.1007/978-94-011-1628-2>
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- I.24 A.J.L. Pombeiro, "Protonation or Deprotonation Reactions and Their Mechanisms at Low-Valent Transition Metal Phosphinic Complexes", in "Progress in Inorganic and Organometallic Chemistry", F.P. Pruchnik and M. Zuber (eds.), Institute of Chemistry (Univ. Wrocław) and Institute of Inorganic Chemistry and Metallurgy of Rare Elements (Technical Univ. Wrocław), Poland, 1996, pp. 252-275 (texts of the invited lectures presented at the 1st Internat. Conference on Progress in Inorganic and Organometallic Chemistry, Polanica Zdrój, Poland, 1994 - see 29 in "Invited Lectures at Conferences").
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- I.30 M.F.C. Guedes da Silva, M.F.N.N. Carvalho, M.A.N.D.A. Lemos, A.J.L. Pombeiro*, "Binding and Reactivity of Cyanide, Isocyanide and Aminocarbyne, CNH_x (x = 0-2), at a Single Transition Metal Centre", in "Progress in Coordination and Organometallic Chemistry", G. Ondrejovic and A. Sirota (eds.), "Monograph Series of the International Conferences on Coordination Chemistry", Vol. 3, Slovak Technical University Press, Bratislava, 1997, pp. 143-146 (see 32 in "Invited Lectures at Conferences").
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