

IV - DIDATIC WORKS

(See also *Book I.4, Invited Lectures 31 and 49, Other Invited Lectures 75, and Presentations at Conferences 47, 153 and 211*)

- IV.1 A.J.L. Pombeiro*, J.J.R. Fraústo da Silva, "Acid-Base Equilibrium in Non-Aqueous Solvents" (in Portuguese), I.S.T., Lisbon, 1973 (18 pages).
- IV.2 A.J.L. Pombeiro*, "Introduction to Laboratory Techniques" (in Portuguese), I.S.T.,Lisbon, 1981 (329 pages).
- IV.3 A.J.L. Pombeiro*, "Isocyanide Compounds" and "Carbyne Compounds", lecture notes presented at the M.Sc. course on "Organometallic Chemistry" (University of Sussex,U.K.), 1981/2 (included in IV.4) (67 hand written pages).
- IV.4 A.J.L. Pombeiro*, "Organometallic Chemistry", lecture notes presented at theM.Sc. course on the "Chemistry of Catalytic Processes" (I.S.T., Lisbon), 1982/3 (in Portuguese) (340 hand written pages).
- IV.5 A.J.L. Pombeiro*, "Metallo-Bioinorganic Chemistry", Inorganic Chemistry Laboratory (I.S.T.)/Complexo I, Lisbon, 1987 (in Portuguese) (148 pages).
- IV.6 A.J.L. Pombeiro*, "Homogeneous Catalysis", lecture notes for the course on "Catalysis" (I.S.T., Lisbon), 1990 (in Portuguese) (45 hand written pages).
- IV.7 A.J.L. Pombeiro*, "Industrial Organometallic Chemistry and Fine Chemistry –History, Tendencies and Prospects", lecture notes for the courses on"Organometallic Chemistry" (M.Sc. course on Chem. Eng./Applied Chemistry, I.S.T., Lisbon, 1989-91) and on "Coordination Compounds in Pharmacology" (PEDIP programme, I.S.T., Lisbon, 1991/92) (in Portuguese) (*ca.* 20 hand written pages, plus extracts from IV.4 and IV.5).
- IV.8 A.J.L. Pombeiro*, "Electrosynthesis", lecture notes for the course on “Electrochemical Methods in Synthesis” (M.Sc. course on Chem.Eng./Applied Chemistry, I.S.T., Lisbon, 1991/92) (in Portuguese) (47 hand written pages).
- IV.9 A.J.L. Pombeiro*, "Coordination Chemistry of Transition Metals", lecture notes for the course "Inorganic Chemistry I" (Chem. Eng., I.S.T., Lisbon, 1995) (in Portuguese) (*ca.*170 hand written pages).
- IV.10 A.J.L. Pombeiro*, "Molecular Electrochemistry of Organometallic Complexes: RedoxProperties and Activation by Electron Transfer", lecture notes for the "International School of Organometallic Chemistry", Camerino, Italy, 1997 (60 pages).
- IV.11 J.L. Pombeiro*, “Homogeneous Catalysis”, lecture notes presented at the course“Diplôme d’Etudes Approfondies” (D.E.A.) and "M.Sc. Multinational de Chimie Moléculaire”, École Polytechnique (Palaiseau, Paris), 2003 (178 pages presented in “power-point” ; subject to further yearly updates).
- IV.12 A.J.L. Pombeiro*, ”Activation of Alkanes and Nitriles towards Metal-mediated Syntheses”, lecture notes for the “International School of Organometallic Chemistry”, Camerino, Italy, 2003 (65 pages presented in “power-point”).
- IV.13 A.J.L. Pombeiro*, ”Topics of Coordination Chemistry”, lecture notes for the National Taiwan University of Science and Technology, Taipei, Taiwan, 2007 (210 pages presented in “power-point”).
- IV.14 A.J.L. Pombeiro*, ”Molecular Electrochemistry, Electrocatalysis and Homogeneous Catalysis”, lecture notes for the XXVIII Chemistry Summer School, Federal University of S. Carlos, Brazil, 2008 (113 summary pages presented in “power-point”).

- IV.15 A.J.L. Pombeiro*, "Homogeneous Catalysis", lecture notes for the Erasmus (Intensive Programme) course on "Advanced Catalysis and Organometallic Chemistry", University of Camerino, Italy, 2009 (35 summary pages presented in "power-point").
- IV.16 A.J.L. Pombeiro*, "Activation and Functionalization of Alkanes", lecture notes for the Erasmus (Intensive Programme) course on "Advanced Catalysis and Organometallic Chemistry", University of Camerino, Italy, 2009 (30 summary pages presented in "power-point").
- IV.17 A.J.L. Pombeiro*, "Homogeneous Catalysis: Topics of Industrial Significance" and "Functionalization of Alkanes", lecture notes for the Lifelong Learning Programme / Erasmus Intensive Programme (IP) course EUCHEME ("EUropean CHEmists for Energy, Materials and Environment"), University of Camerino, Italy 2012 and 2013 (*ca.* 40 summary pages presented in "power-point").
- IV.18 A.J.L.Pombeiro, M.F.C. Guedes da Silva, various modules within the "Homogeneous Catalysis" course of the CATSUS (Catalysis and Sustainability) PhD program, IST, 2014/15: introduction, basic concepts of coordination chemistry, bond and reactivity; various topics in catalysis: hydrocyanation, isomerization, C-C coupling, alkane functionalization, metal-mediated reactions of nitriles, cooperative and bifunctional catalysis (*ca.* 300 summary pages, "power-point").
- IV.19 A.J.L.Pombeiro, M.F.C. Guedes da Silva, "Coordination Chemistry: Bonding, Structure, Reactivity", 26th Jyvaskyla Summer School, University of Jyvaskyla, August 2016, Finland (72 summary pages, "power-point").
- IV.20 A.J.L.Pombeiro, "Homogeneous Catalysis", 26th Jyvaskyla Summer School, University of Jyvaskyla, August 2016, Finland (128 summary pages, "power-point").

V - OTHER WORKS

- V.1 A.J.L. Pombeiro, "Model Studies on the Mild Fixation of Dinitrogen and Other Substrates of Nitrogenase" (in Portuguese), Instituto Superior Técnico, Lisbon, 1972 (122 pages).
- V.2 "By-Laws of the Portuguese Electrochemical Society" (project undertaken within the Foundation Commission of this Society and approved by the General Assembly, 1984), *Portugaliae Electrochimica Acta*, 1989, 7, 395-406.
- V.3 A.J.L. Pombeiro, review of the "Bulletin of Electrochemistry", *Portugaliae Electrochimica Acta*, 1988, 6, 77-78.
- V.4 Responsibility (and coordination) for the publication entitled "Electrochemical Research", *Portugaliae Electrochimica Acta*, 1989 (June), 7, 159-429 (celebratory issue of the 5th anniversary of the Portuguese Electrochemical Society).
"Preface" of this issue (pp. 159-165) (see also V.16). DOI: 10.4152/pea.198902159.
- V.5 A.J.L. Pombeiro, "Portuguese Electrochemical Society – Genesis and the First Lustrum", *Portugaliae Electrochimica Acta*, 1989, 7, 175-193 (celebratory issue – see V.4) (speech delivered at the celebratory session). DOI: 10.4152/pea.198902175
- V.6 A.J.L. Pombeiro, "Opening and Closing of the celebratory session of the 5th anniversary of the Portuguese Electrochemical Society", *Portugaliae Electrochimica Acta*, 1989, 7, 169-170 (DOI: 10.4152/pea.198902167) and 251 (DOI: 10.4152/pea.198902251) (celebratory issue - see V.4).
- V.7 A.J.L. Pombeiro, "Molecular Electrochemistry of Coordination Compounds", *Portugaliae Electrochimica Acta*, 1989, 7, 333-338 (celebratory issue - see V.4) (abridged description of a research project) (within DOI: 10.4152/pea.198902269).
- V.8 A.J.L. Pombeiro, "The Portuguese System of Science and Technology – Indicators, information and the Role of Some Institutions". Part I – "An Outline", *Memories of the Academy of Sciences of Lisbon* (Class of Sciences), 1991, XXXI, 553-581 (see V.105 e V.108).
- V.9 A.J.L. Pombeiro, "The Portuguese System of Science and Technology – Indicators, Information and the Role of Some Institutions". Part II – "Scientific Information and Evaluation in Portugal – The Role of Some Governmental and Scientific Institutions", *Memories of the Academy of Sciences of Lisbon* (Class of Sciences), 1991, XXXI, 583-600 (see V.104 e V.108).
- V.10 Invited interviews, in Russia, on the systems of Science and Technology in Portugal and in the U.S.S.R. (interviewer: Prof. Zori Todres) included in the following Sovietic publications: "Mendeleev Chemistry Journal", 1991, 36, no. 4; "Chemistry and Life", April, 1992, 16-17; "Radical" (Journal of the "Society for Distribution of Scientific Knowledges"), no. 41, October 23rd, 1991.
- V.11 J.P. Peixoto, A.J.L. Pombeiro, "The Academy of Sciences of Lisbon" (invited paper), in "International Encyclopedia of Learned Societies and Academies", J. C. Kiger (ed.), Greenwood Press, Westport, U.S.A., 1993, p. 237-241.
- V.12 A.J.L. Pombeiro, "Molecular Electrochemistry of Inorganic, Bioinorganic and Organometallic Compounds – NATO Advanced Research Workshop" (informative note), Boletim Informativo, Instituto Superior Técnico, 1992, no. 136, 20-21. "Molecular Electrochemistry of Inorganic, Bioinorganic and Organometallic Compounds", NATO Newsletter (Scientific Publications), 1993, no. 46, p. 4.
- V.13 A.J.L. Pombeiro*, J. McCleverty, "Preface" to the book "Molecular Electrochemistry of Inorganic, Bioinorganic and Organometallic Compounds", A.J.L. Pombeiro (ed.) and J. McCleverty (co-ed.), NATO ASI Series, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1993, xiii-xvi.

- V.14 A.J.L. Pombeiro, "Joseph Chatt –A Biographic Note", *Química, Bull. Soc. Port. Quím.*, 1994, no. 54, 2-5.
- V.15 "The Academy of Sciences of Lisbon" (with J. Pinto Peixoto), Academy of Sciences of Lisbon, 1994 (booklet).
- V.16 Responsibility for the publication entitled "Electrochemical Research in Portugal", Portuguese Electrochemical Society, 1995 (updating of publication V.4). "Introduction" to this publication (pp. 5-15) (with the other members of the Directive body of the Society, A.M. Silva, C. Paliteiro, J. Simão and C.M. Rangel).
- V.17 A.J.L. Pombeiro, "Molecular Electrochemistry of Coordination Compounds" (abridged description of research project), in V.16, pp. 85-89.
- V.18 A.J.L. Pombeiro, "Scientific Research in Portugal – Current Situation and Perspectives", lecture notes presented (April 1997) at the Higher Course on Air War, Air Force High Studies Institute (ca. 90 pages) (updated annually until 2003).
- V.19 A.J.L. Pombeiro, "Professor José Pinto Peixoto", *Portugaliae Electrochimica Acta*, 1998, 16, 121-132.
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- V.20 A.J.L. Pombeiro, "Introductory Remarks", *Book of Abstracts* ("New Trends in Molecular Electrochemistry and XII Meeting of the Portuguese Electrochemical Society"), 2003, pp. iii-iv.
- V.21 A.J.L. Pombeiro, "Protagonists in Chemistry: Prof. João J.R. Fraústo da Silva", *Inorg. Chim. Acta*, 2003, 356, 1-5 (special issue dedicated to Prof. J.J.R. Fraústo da Silva). [http://dx.doi.org/10.1016/S0020-1693\(03\)00330-X](http://dx.doi.org/10.1016/S0020-1693(03)00330-X)
- V.22 A.J.L. Pombeiro*, C. Amatore, "Introduction", in "Trends in Molecular Electrochemistry", A.J.L. Pombeiro (ed.) and C. Amatore (co-ed.), FontisMedia / Marcel Dekker, Lausanne / New York, 2004, pp. xi-xii.
- V.23 M. Toscano Rico, F. Dias Agudo, A.J.L. Pombeiro, "Preface", in "Trends in Molecular Electrochemistry", A.J.L. Pombeiro (ed.) and C. Amatore (co-ed.), FontisMedia / Marcel Dekker, Lausanne / New York, 2004, pp. xiii-xvi (1st volume of the resumed "Frontiers of Knowledge" series of the Academy of Sciences of Lisbon).
- V.24 F.F. Biani, A.J.L. Pombeiro*, "Protagonists in Chemistry: Prof. P. Zanello", *Inorg. Chim. Acta*, 2008, 361, 1567-1568 (special issue dedicated to Prof. Piero Zanello).
- V.25 A.J.L. Pombeiro, Welcome Message, XXV International Conference on Organometallic Chemistry (ICOMC), 2012. <https://cqe.tecnico.ulisboa.pt/events/icomc25/welcome.php>
- V.26 A.J.L. Pombeiro, "Preface" to the book "Advances in Organometallic Chemistry and Catalysis" (The Silver/Gold Jubilee ICOMC Celebratory Book), A. J. L. Pombeiro (ed.), J.Wiley& Sons, 2014.
- V.27 A.J.L. Pombeiro, invited interview for *Química (Bulletin of the Portuguese Chemical Society)*, 2013, 131, 11-20.
- V.28 A.J.L. Pombeiro, invited interview for "Elsevier Author Profile", 2013: <http://www.elsevier.com/authors/authors-update/issue-4/about-the-author-prof.-armando-j.l.-pombeiro>
- V.29 A.J.L. Pombeiro, L. Martins, "Welcome" Message, in Book of Abstracts, CATSUS 1 Workshop, Academy of Sciences of Lisbon, September 2015.
- V.30 A.J.L. Pombeiro, Recipient Salutation ("Saudação ao Recipiendário") to Professor/Academician José Simões Redinha as Full Member of the Academy of Sciences of Lisbon, presented at the Plenary Session of the Academy of Sciences of Lisbon (December 4th, 2014), *Academy of Sciences of Lisbon*, 2020 (electronic publ.). ISBN: 978-972-623-380-0

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- V.31 A.J.L. Pombeiro, Historical Evocation (“Elogio Histórico”) of Professor/Academician Herculano de Carvalho, presented at the Plenary Session of the Academy of Sciences of Lisbon (June 18th, 2015), *Academy of Sciences of Lisbon*, 2019 (electronic publ.). ISBN: 978-972-623-371-8
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- V.34 A.M. Maharramov, K.T. Mahmudov, M.N. Kopylovich, A.J.L. Pombeiro, “Preface” to the book “Non-covalent Interactions in the Synthesis and Design of New Compounds”, A.M. Maharramov, K.T. Mahmudov, M.N. Kopylovich, A.J.L. Pombeiro (eds.), J. Wiley & Sons, 2016, xv-xvi.
- V.35 A.J.L. Pombeiro, M.F.C. Guedes da Silva, “Preface” to “Metal Systems for a Sustainable Chemistry”, *Inorg. Chim. Acta*, 2017, 455, 307-308 (Special Issue).
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- V.36 A.J.L. Pombeiro, Welcome Message, 1st Meeting of the College of Chemistry of the University of Lisbon (“Chemistry in the Research of the Universidade de Lisboa”), Book of Abstracts, 2017, pp. 3-4.
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- V.38 A.J.L. Pombeiro, “CQE Presentation and Mission”, CQE Website, 2018.
- V.39 A.J.L. Pombeiro, L.M.D.R.S. Martins, M.F.C. Guedes da Silva, E.C.B.A. Alegria, Welcome Message, 7th EuCheMS Conference on Nitrogen Ligands, 2018.
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- V.41 Interview on the presentation of the Centro de Química Estrutural: “CQE, Four Decades of Interdisciplinary Knowledge” (in Portuguese), in *Journal Público*, Supplement *Perspectives*, pp. 29-31, October 10th, 2018.
- V.42 K.T. Mahmudov, A.J.L. Pombeiro, Editorial to *Crystals* special issue on “Chalcogen Bonding in Crystalline and Catalyst Materials”, 2018.
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- V.43 A.J.L. Pombeiro, M.F.C. Guedes da Silva, “Preface” to the book “Alkane Functionalization”, A.J.L. Pombeiro (ed.), M.F.C. Guedes da Silva (co-ed.), J. Wiley & Sons, Hoboken, NJ, USA, 2019, pp. xxvii-xxx.
- V.44 K.T. Mahmudov, A.V. Gurbanov, M.F.C. Guedes da Silva, A.J.L. Pombeiro, “Preface” to the book “Noncovalent Interactions in Catalysis”, K.T. Mahmudov, M.N. Kopylovich, M.F.C. Guedes da Silva, A.J.L. Pombeiro (eds.), Royal Society of Chemistry, UK, 2019, pp. vii-viii.

- V.45 A.J.L. Pombeiro, A.P.C. Ribeiro, “Editorial”, *Catalysts* special issue “Catalysis in Unconventional Media”, 2019.
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- V.46 Interview on the presentation of the College of Chemistry of the University of Lisbon: “Unite under the Name of Chemistry” (in Portuguese), in *Journal Público*, Supplement *Perspectives*, February 6th, 2019 (3 pages).
- V.47 M.J. Calhorda, C. Henriques, L. Martins, A. Pombeiro, Message from Chairs of the Organizing Committees and President of the College, 4th Meeting of the College of Chemistry of the University of Lisbon, Chemistry: Shaping the Future, Book of Abstracts, 2019, p.3
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- V.50 A.J.L. Pombeiro, “Nitrogen Ligands”, *Dalton Trans.*, 2019, 48, 13904-13906 (Editorial, Themed Collection on Nitrogen Ligands).
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- V.51 K.T. Mahmudov, A.J.L. Pombeiro, “1st International Conference on Noncovalent Interactions”, *New J. Chem.*, 2019, 43, 13312-13314. “Editorial” to the RSC Themed Collection on this topic (*CrystEngComm*, *Dalton*, *NewJChem*, *PhysChemChemPhys*, *RSC Advances*), 2019 (181 contributions).
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- V.52 A.J.L. Pombeiro, M.F.C. Guedes da Silva, L.M.D.R.S. Martins, E.C.B.A. Alegria, K. Mahmudov, Welcome Message, XX International Symposium on Homogeneous Catalysis, 2020. <http://xxii-ishc.events.chemistry.pt/>
- V.53 K.T. Mahmudov, A.J.L. Pombeiro, “Noncovalent Interactions” (Report on the 1st ICNI), *Chemistry International* (IUPAC newsmagazine), 2020, 42 (issue 3), 37-40.
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- V.54 A.J.L. Pombeiro, A. Karmakar, “Editorial”, *Catalysts* special issue “MOFs: Syntheses, Structures, and Catalytic Processes”, 2020.
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- V.55 A.J.L. Pombeiro, Welcome Message, 5th CATSUS Workshop (virtual), Book of Abstracts, 2020, pp.3-5.
- V.56 A.J.L. Pombeiro, “Preface”:
(i) to the book “Celebration of the Periodic Table of the Elements at the Academy of Sciences of Lisbon. A Chemistry Symposium”, A.J.L. Pombeiro (coord.), Academy of Sciences of Lisbon, 2020, pp. 1-7. (ISBN: 978-972-623-394-7).
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- V.60 A. Pombeiro, J. Moura, *In Memoria* “Um Adeus a Fraústo da Silva (1933-2022)” (“Fairwaell to Fraústo da Silva”), *Química* (Bulletin of the Portuguese Chemical Society), 2022, 46, No. 166, 153-154.
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