

INVITED LECTURES (PLENARY, KEYNOTE AND SESSION LECTURES) AT INTERNATIONAL CONFERENCES OR SYMPOSIA

Delivered in-presence (unless stated otherwise)

- 1 A.J.L. Pombeiro, "Complexes of Dinitrogen and Related Ligands. Reactivity", Symposium on "New Trends in the Chemistry of Nitrogen Fixation", Academy of Sciences of Lisbon, Lisbon, 1979 (see II.27).
- 2 A.J.L. Pombeiro, "Reactions of Electron Rich Metal Sites" (in Portuguese), Inorganic Chemistry Meeting, Portuguese Chemical Society, Complexo I, Instituto Superior Técnico, Lisbon, 1979.
- 3 A.J.L. Pombeiro, "Activation of Dinitrogen by Transition Metal Binding Sites" (in Portuguese), Nitrogen Fixation Meeting, Portuguese Chemical Society, Complexo I, Instituto Superior Técnico, Lisbon, 1979.
- 4 A.J.L. Pombeiro, "Isocyanides as Probes in the Study of the Reactivity of Dinitrogen and the Properties of its Binding Sites" (in Portuguese), Fifth National Chemical Meeting, Porto, 1982, CC2.
- 5 A.J.L. Pombeiro, "Electrochemistry of Transition Metal Complexes" (in Portuguese), Third National Electrochemical Meeting, Lisbon, 1982, S2.
- 6 A.J.L. Pombeiro, "Nitrogen Fixation by Chemical and Biological Methods" (in Portuguese), First Meeting on Chemical and Biological Conversion of Energy, Calouste Gulbenkian Foundation, Lisbon, 1982.
- 7 A.J.L. Pombeiro, "Chemistry of Alkynes and Isocyanides Activated by Dinitrogen-Binding Transition Metal Centres", Seminarium Kataliza 85, Karpacz, Institute of Chemistry, University of Wroclaw, Poland, 1985.
- 8 A.J.L. Pombeiro, "Activation of Unsaturated $C\equiv C$ and $C\equiv N$ Bonds: Formation of Metal-Carbon Multiple Bonds", 11th Summer School on Coordination Chemistry, Karpacz, Poland, 1987, P-7 (*Plenary lecture*).
- 9 A.J.L. Pombeiro, "Carbene Complexes Derived from the Activation of Isocyanides and Alkynes by Electron-Rich Transition Metal Centres", NATO Advanced Research Workshop on "Transition-Metal Carbene Complexes", Wildbad Kreuth, Federal Republic of Germany, 1988, L11 (*Key lecture*).
- 10 A.J.L. Pombeiro, "Redox Properties of Isocyanide, Carbyne and Carbene Complexes", Royal Society of Chemistry Autumn Meeting, Dalton Division: "Electrochemistry and Electron Transfer in Inorganic Chemistry", University of Birmingham, U.K., 1988.
- 11 A.J.L. Pombeiro, "Group VI and VII Transition Metal Complexes with Single, Double or Triple Metal-Carbon Bonds", IX Annual Meeting on Organometallic Chemistry, Spanish Royal Chemical Society (Organometallic Chemistry Division), Faculty of Chemistry, Oviedo, Spain, 1989 (*Plenary lecture*).
- 12 A.J.L. Pombeiro*, "Redox Properties and Ligand Effects in Isocyanide and Alkyne-Derived Complexes with Electron-Rich Metal Centres", Journées d'Électrochimie 1989, Montpellier, France, 1989, CS 4-2.
- 13 A.J.L. Pombeiro, "Electrophilic β -Addition to Isocyanide, Cyanide and Alkyne-Derived Ligands", Internat. Conference on the Chemistry of the Early Transition Metals, University of Sussex, Brighton, U.K., 1989 (see I.12) (*Plenary lecture*).

- 14 A.J.L. Pombeiro, "Electron-Transfer Reactions of Complexes with Unsaturated Carbon or Nitrogen Ligands", XI Meeting of the Electrochemical Group of the Spanish Royal Chemical Society, Valladolid, Spain, 1989, CP-2 (*Plenary lecture*).
- 15 A.J.L. Pombeiro, "Molecular Electrochemistry of Coordination Compounds", 4th Meeting of the Portuguese Electrochemical Society, Sintra/Estoril, 1989, P1, p. 17 (*Plenary lecture*).
- 16 A.J.L. Pombeiro, "Activation of Nitriles and Related Molecules by Transition-Metal Centres", Italian-Portuguese-Spanish Meeting in Inorganic Chemistry, Gandía, Spain, 1990, M3-4, p. 52 (*Invited lecture (micro-symposium)*).
- 17 A.J.L. Pombeiro, "Electrochemically Induced Interconversion of Unsaturated Carbon or Nitrogen Ligands and Redox Properties of Their Binding Metal Centres", J. Heyrovský Centennial Congress on Polarography, 41st Meeting of the Internat. Society of Electrochemistry, Prague, Czechoslovakia, 1990, Fr-MS15/1 (*Invited lecture (micro-symposium)*).
- 18 A.J.L. Pombeiro, "Chemistry and Electrochemistry of Coordination Compounds with Multiple M-C or M-N Bonds", special session at the congress on "Electrochemical Catalysis", Chernogolovka, Moscow, U.S.S.R., 1991.
- 19 A.J.L. Pombeiro, "Coordination Chemistry of Unsaturated Carbon, an *Unsaturated* Field of Research", 12th Meeting of the Portug. Chemical Society, Coimbra, 1991, p. 30.
- 20 A.J.L. Pombeiro, "Unprecedented Activation of Molecules with Unsaturated C, N or P – Their Coordination Chemistry and Molecular Electrochemistry" (in Portuguese), Half a Century of Chemistry in Porto – symposium on the occasion of Prof. João L.L.C.O. Cabral's retirement, Porto, 1991, C3, p. 6.
- 21 A.J.L. Pombeiro, "Scientific Information and Evaluation in Portugal – The Role of Some Governmental and Scientific Institutions", Informatics and the Science of Science (II All-Union Scientific Conference), Tambov, U.S.S.R., 1991, p. 3 (see V.9) (*Plenary lecture*).
- 22 A.J.L. Pombeiro, "The Portuguese System of Science and Technology, an Outline", Informatics and the Science of Science (II All-Union Scientific Conference), Tambov, U.S.S.R., 1991, p. 4 (see V.8) (*Plenary lecture*).
- 23 A.J.L. Pombeiro, "Activation of Small Molecules by Transition Metal Centres and Molecular Electrochemistry of Their Complexes", Frontiers in Inorganic Chemistry, JNICT (National Board for Scientific and Technological Research)/National Science Foundation/FLAD (Luso-American Foundation for Development), Lisbon, 1992.
- 24 A.J.L. Pombeiro, "Electrochemical Behaviour of Complexes Derived from the Activation of Alkynes, Isocyanides and Nitriles", Molecular Electrochemistry of Inorganic, Bioinorganic and Organometallic Compounds (NATO Advanced Research Workshop), Sintra, Portugal, 1992, L19 (*Plenary lecture*).
- 25 A.J.L. Pombeiro, "Chemistry and Electrochemistry of Alkyne- and Isocyanide-Derived Carbyne Complexes of Rhenium, Molybdenum and Tungsten", Transition Metal Carbyne Complexes (NATO Advanced Research Workshop), Wildbad Kreuth, Germany, 1992, PL 2 (*Plenary lecture*).
- 26 A.J.L. Pombeiro, "Molecular Electrochemistry of Complexes with Activated Isocyanide, Nitrile and Alkyne-Derived Ligands", 2nd Iberian Electrochemistry Meeting (XVI Meeting of the Electrochemistry Group of the Spanish Royal Chemical Society), Valencia, Spain, 1993, CP-3, p.13-14 (*Plenary lecture*).
- 27 A.J.L. Pombeiro, "Coordination Chemistry of Small Unsaturated-N Molecules at Electron-Rich Mononuclear Centres: Cyanamide, Organonitriles, Nitric Oxide and Related Species",

- 12th Summer School on Coordination Chemistry, Karpacz, Poland, 1993, L11, p. 23. IV (*Plenary lecture*).
- 28 A.J.L. Pombeiro, "Protonation and Dehydrogenation of Complexes with Small Unsaturated-Carbon or -Nitrogen Ligands: A Chemical and an Electrochemical Approach", Latin-American Inorganic Chemistry Meeting, Santiago de Compostela, Spain, 1993, LAICM2184S, p. 190 (*Plenary lecture*).
- 29 A.J.L. Pombeiro, "Electrochemically Induced Reactions of Hydride, Nitrile or Related Complexes", 45th Annual Meeting of the Internat. Society of Electrochemistry, Porto, Portugal, 1994, KIV-7.
- 30 A.J.L. Pombeiro, "Protonation or Deprotonation Reactions and Their Mechanisms at Low-Valent Transition Metal Phosphinic Complexes", 1st Internat. Conference on Progress in Inorganic and Organometallic Chemistry, Polanica Zdrój, Poland, 1994, L4, p. 16 (*Plenary lecture*).
- 31 A.J.L. Pombeiro, "Homogeneous Coordination Catalysis in the Curricula of the Graduate and Post-Graduate Chemical Engineering Courses" (in Portuguese), 2nd Meeting, Catalysis Division, Portuguese Chemical Society, Instituto Superior Técnico, Lisbon, Portugal, 1995, p. 28-29.
- 32 A.J.L. Pombeiro, "Molecular Electrochemistry in Coordination Chemistry: Metal-Ligand Bonds and Activation of Complexes by Electron-Transfer", 13th Summer School on Coordination Chemistry, Polanica-Zdrój, Poland, 1996, L23, p.35 (*Plenary lecture*).
- 33 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", 16th Conference on Coordination Chemistry, Smolenice, Slovakia, 1997, p. 61 (*Plenary lecture, presented by A.J.L.P.*)
- 34 A.J.L. Pombeiro, "Molecular Electrochemistry of Organometallic Complexes: Redox Properties and Activation by Electron-Transfer", International School of Organometallic Chemistry, Camerino, Italy, 1997, p. 29 (see IV.10) (*Plenary lecture*).
- 35 A.J.L. Pombeiro, "Organodiazenide and Related Complexes of Rhenium", 2nd International Conference on Progress in Inorganic and Organometallic Chemistry, Polanica Zdrój, Poland, 1997, p. 24 (*Plenary lecture*).
- 36 A.J.L. Pombeiro, "Reactions of Alkynes and Phosphaalkynes at Electron-Rich Phosphinic Metal Centres", Organometallic Chemistry on the Eve of the 21st Century (INEOS 98 Workshop), Moscow, 1998, L48.
- 37 A.J.L. Pombeiro, "Bond Activation and Structural Arrangements Induced by Electron-Transfer", Electrochemistry: Long- and Short-Lived Intermediates in Coordination and Organometallic Compounds Meeting, Siena, Italy, 1998, p. 7 (*Plenary lecture*).
- 38 A.J.L. Pombeiro, "Unconventional Methods and Substrates in Coordination Chemistry" (in Portuguese), IV Conference on Inorganic Chemistry (Portuguese Chemical Society), Peniche, Portugal, 1999, PL5, p. 15-16 (*Plenary lecture*).
- 39 V. Yu. Kukushkin, A.J.L. Pombeiro, "Metal-Assisted Reactions of Oximes and Related Species", 14th Summer School on Coordination Chemistry, Polanica-Zdrój, Poland, 1999, L13, p. 25 (*Plenary lecture, presented by A.J.L.P.*).
- 40 A.J.L. Pombeiro, "A Quarter of a Century of Collaboration between the Unit of Nitrogen Fixation/Nitrogen Fixation Laboratory and the Complexo Interdisciplinar", Symposium on "Chemical & Biochemical Activation of Small Molecules" in honour of Profs. R.L. Richards and B. Smith, John Innes Centre, Norwich, U.K., 1999.

- 41 A.J.L. Pombeiro*, “Electron-Transfer Promoted Bond-Cleavage in Coordination Compounds”, 3rd Internat. Conference on Progress in Inorganic and Organometallic Chemistry (PIOC), Polanica Zdrój, Poland, 2000, L14 (*Plenary lecture*).
- 42 A.J.L. Pombeiro, “Electrochemically Induced Bond Cleavage in Coordination Compounds”, Metal-Containing Molecules, 1st Chianti Electrochemistry Meeting, Siena, Italy, 2000, p. 12 (*Plenary lecture*).
- 43 A.J.L. Pombeiro, “Activation of Alkanes and Nitriles towards Metal-mediated Syntheses”, 4th International School of Organometallic Chemistry (ISOC), Camerino, Italy, 2003, p. 19 (*Plenary lecture*).
- 44 A.J.L. Pombeiro, M.F.C. Guedes da Silva, “Bond and Structure Activation by Anodic Electron-Transfer: Metal-Hydrogen Bond Cleavage and *cis/trans* Isomerization in Coordination Compounds”, New Trends in Molecular Electrochemistry and XII Meeting of the Portuguese Electrochemical Society, Academy of Science of Lisbon, Lisbon, 2003, PL9, p. 10. (*Plenary lecture, presented by A.J.L.P*)
- 45 A.J.L. Pombeiro, “Mechanisms of Electron-Transfer Induced Deprotonation Reactions at Hydride and Other Complexes”, Inorganic Mechanisms Discussion Group, Royal Society of Chemistry, Newcastle, U.K., 2003.
- 46 A.J.L. Pombeiro, “Metal-promoted C-H Bond Formation or Cleavage at Nitriles, Alkynes or Alkanes”, 7th FIGIPS Meeting in Inorganic Chemistry, Lisbon, Portugal, 2003, p. 84 *Invited lecture (minisymposium on “C-H and C-C Bond Formation”)*.
- 47 A.J.L. Pombeiro, “Activation and Functionalization of Alkanes”, 15th Summer School on Coordination Chemistry, Szklarska Poreba, Poland, 2004, L20, p. 30 (*Plenary lecture*).
- 48 A.J.L. Pombeiro, “Activation of Complexes by Electron-Transfer: Isomerization and Cleavage of Bonds with Hydrogen”, VIII Iberic Meeting of Electrochemistry / XIII Meeting of the Portuguese Electrochemical Society, Covilhã, Portugal, 2005, P2, pp. 5-6 (*Plenary lecture*).
- 49 A.J.L. Pombeiro, “Homogeneous Catalysis in the *Master Multinational de Chimie Moléculaire* (École Polytechnique) and in the Functionalization of Alkanes (IST)”, 7th Meeting of the Catalysis and Porous Materials Division of the Portuguese Chemical Society, Lisbon, 2005, pp. 45-47.
- 50 A.J.L. Pombeiro, “Vanadium Catalysed Alkane Functionalization Reactions under Mild Conditions”, 5th International Vanadium Symposium, S. Francisco, California, U.S.A., 2006, 046 INOR 853, p. 30.
- 51 A.J.L. Pombeiro, “Metal and Ligand Effects on the Redox Potential of Coordination Compounds”, 4th Chianti Meeting on Inorganic Electrochemistry”, Siena, Italy, 2006, p. 11.
- 52 A.J.L. Pombeiro, “Oxidative Functionalization of Alkanes under Mild Conditions Catalysed by Transition Metal Complexes with N,O- or O- Ligands”, 9th FIGIPAS Meeting in Inorganic Chemistry, Vienna, Austria, 2007, SL-11 (*Session lecture*).
- 53 A.J.L. Pombeiro, “Bioinspired Transition Metal Systems for the Mild Catalytic Oxidation of Light Alkanes”, 13th International Conference on Biological Inorganic Chemistry (ICBIC), Vienna, Austria, 2007, SL 088, *J. Biol. Inorg. Chem.*, 2007, 12, Supplement 1, S160 (*Session lecture*).
- 54 A.J.L. Pombeiro, “Metal-Catalyzed Functionalization of Alkanes under Mild Conditions”, International Workshop on Coordination Chemistry, National Taiwan University of Science and Technology, Taipei, 2007.

- 55 A.J.L. Pombeiro, “Current Research in Coordination Chemistry and Catalysis at the IST (Coordination Chemistry and Molecular Electrochemistry Group)”, International Workshop on Coordination Chemistry, National Taiwan University of Science and Technology, Taipei, 2007.
- 56 A.J.L. Pombeiro, “Molecular Electrochemistry of Coordination Compounds: Redox Potential-Structure Relationships and Activation by Electron-Transfer”, International Workshop on Coordination Chemistry, National Taiwan University of Science and Technology, Taipei, 2007.
- 57 E. Arantes e Oliveira, A.J.L. Pombeiro, “The Academy of Sciences of Lisbon in an ESF-ALLEA Context”, ESF-ALLEA High Level Workshop on the Collaboration between ESF and the Academies, ESF, Brussels, 2008 (*presented by A.J.L.P.*)
- 58 A.J.L. Pombeiro, “N- and N,O-Ligands in Metal-mediated and Self-assembly Synthesis, and in Catalytic Functionalization of Alkanes”, 4th EuCheMS Conference on Nitrogen-Ligands in Coordination Chemistry, Metal-Organic Chemistry, Bioinorganic Chemistry & Homogeneous Catalysis, Garmisch-Partenkirchen, Germany, 2008, SL17, p. 61 (*Session lecture*).
- 59 A.J.L. Pombeiro, “Single-pot Functionalization Reactions of Alkanes Catalyzed by Transition Metal Complexes”, International Conference on Organometallic and Coordination Chemistry (ICOMCC), Nizhny-Novgorod / Volga river, 2008, PL7 (*Plenary lecture*).
- 60 N.A. Bokach, M.-J. Wang, M.D. Revenco, A.J.L. Pombeiro*, V.Yu. Kukushkin, “Pop-the-Cork Strategy in Synthetic Utilization of Imines”, International Conference on Organometallic and Coordination Chemistry (ICOMCC), Nizhny-Novgorod / Volga river, 2008, S12 (*presented by V.Yu. Kukushkin*) (*Plenary lecture*).
- 61 A.J.L. Pombeiro, “Single-pot Oxidations of Alkanes under Mild Conditions Catalyzed by Transition Metal Complexes”, Symposium in Honour of Eric Derouane, Technical University of Lisbon, Lisbon, Portugal, 2008.
- 62 A.J.L. Pombeiro, “Complexes with N- and O-ligands in the Catalytic Partial Oxidation of Alkanes”, Workshop on New Hybrid Metal-organic Materials, University of Camerino, Italy, 2009.
- 63 A.J.L. Pombeiro, “Metal Complexes and Assemblies as Catalyst Precursors for Single-pot Oxidations of Alkanes”, International Workshop on Materials for Catalysis and Energy, National Taiwan University of Science and Technology, Taipei, 2009.
- 64 A.J.L. Pombeiro, “Metal-catalyzed and -mediated Mild Syntheses of C-, N- and O-containing Compounds”, International Workshop on Materials for Catalysis and Energy, National Taiwan University of Science and Technology, Taipei, 2009.
- 65 A.J.L. Pombeiro, “Carboxylation and Peroxidative Oxidation of Alkanes under Mild Conditions”, Gordon Research Conference, Physical Organic Chemistry – Molecular Design and Synthesis, Holderness, USA, 2009.
- 66 A.J.L. Pombeiro, “Functionalization of Alkanes, a Challenge to Modern Chemistry”, XII Regional Seminar of PhD. Students on Organometallic and Coordination Chemistry, Szklarska Poreba, Poland, 2009, PL1 (*Plenary lecture*).
- 67 A.J.L. Pombeiro, “Electrochemical Characterization of Coordination Compounds and Selected ET-Induced Reactions”, 43rd Heyrovský Discussion on Electrochemistry of Organic Molecules and Coordination Compounds, J. Heyrovský Institute of the Czech Republic, Castle Trest, Czech Republic, 2010, p.31(*Plenary lecture*).

- 68 A.J.L. Pombeiro, "Functionalization of Alkanes under Mild Conditions", 9th Congress of the Interdivisional Group of Organometallic Chemistry of the Italian Chemical Society (COGICO), Florence, Italy, 2010, PL3, p.15 (*Plenary lecture*).
- 69 A.J.L. Pombeiro, "Metal-catalyzed Selective Oxidation of Alkanes under Mild Conditions", 24th International Conference on Organometallic Chemistry (ICOMC), Taipei, Taiwan, 2010, Ref
- 70 A.J.L. Pombeiro, "Partial Oxidation and Carboxylation of Alkanes under Mild Conditions", 3rd EuCheMS (European Association for Chemical and Molecular Sciences) Chemistry Congress, Nurnberg, Germany, 2010 (Metal Catalysis Symposium, *Session lecture*).
- 71 A.J.L. Pombeiro, "Self-assembled Multinuclear Coordination Compounds with N,O-Ligands and Applications in Alkane Oxidations", Moleculare Science – From Molecular to Particulate Building Blocks (3rd EuCheMS Satellite Meeting), Erlangen / Schloss Atzelsberg, Germany, 2010.
- 72 A.J.L. Pombeiro, "Redox Potential-Structure Relationships and Activation of Coordination Compounds by Electron-Transfer", 61st Annual Meeting of the International Society of Electrochemistry, Nice, France, 2010 (Molecular Electrochemistry - Methods, Models, Molecules, Materials Symposium, *Session lecture*).
- 73 A.J.L. Pombeiro, "Oxo-Vanadium Catalysts for Mild and Partial Oxidation and Carboxylation of Alkanes", 7th International Symposium on the Chemistry and Biological Chemistry of Vanadium, Toyama, Japan, 2010, O-22.
- 74 A.J.L. Pombeiro, "Functionalization of Alkanes under Mild Conditions", XVI "Luso-Galego" Chemistry Meeting, Aveiro, Portugal, 2010 (*Plenary lecture*).
- 75 A.J.L. Pombeiro, H.R.M.L.Pombeiro, "Approaches towards "Green Energy" and "Green Catalysis" in Portugal", Centennial International Conference of the Chinese Institute of Engineers, Taipei, Taiwan, June 2011 (*Plenary lecture*).
- 76 A.J.L. Pombeiro, "Complexes Bearing N-, N,O- or N,P- ligands in Multinuclear Assemblies and in Oxidation or C-C Coupling Catalyses", 5th EuCheMS Conference on Nitrogen Ligands, Granada, Spain, September 2011 (*Keynote lecture*).
- 77 A.J.L. Pombeiro, "Molecular Electrochemistry of Coordination Compounds: Redox Potential-Structure Relationships and ET-induced Reactions", XIII Iberian Meeting of Electrochemistry/ XXXII Meeting of the Electrochemistry Group of the Spanish Royal Society of Chemistry, Murcia, Spain, September 2011(*Plenary lecture*).
- 78 A.J.L. Pombeiro, "Electron-Transfer in Coordination Compounds:Redox Potential and Selected ET-induced Reactions", 62nd Annual Meeting of the International Society of Electrochemistry, Niigata, Japan, September, 2011.
- 79 A.J.L. Pombeiro, "Towards Partial Oxidation of Alkanes under Green Conitions", Internatioal Syjmsposium on Homogeneous Catalysis, Tolouse, France, July, 2012.
- 80 A.J.L. Pombeiro, "Metal-catalyzed, Metal-promoted and Metal-free functionalization of alkanes", 4th EuCheMS (European Association for Chemical and Molecular Sciences) Chemistry Congress, Prague, August, 2012 (*keynote lecture*).
- 81 A.J.L. Pombeiro, "Oxidations of Alkanes and Alcohols under Mild and Green Conditions", FOC (Frontiers of Organometallic Chemisry) Congress, St. Petersburg, Russa, September, 2012 (*plenary lecture*).
- 82 A.J.L. Pombeiro, "Can Alkanes Become Feedstocks for Organic Synthesis?", Catalysis: from the Active Site to the Process (Symposium in honor of F. Ramôa Ribeiro), Lisbon, October 2012.

- 83 A.J.L. Pombeiro, M. F. C. Guedes da Silva, "Redox Potential Parameterization in Half Sandwich Coordination Compounds", 46th Heyrovský Discussion (Molecular electrochemistry in organometallic science), Heyrovský Institute of the Czech Republic, Castle Trest, Czech Republic, June, 2013 (presented by AJLP).
- 84 A.J.L. Pombeiro, "Catalysis towards Functionalization of Alkanes under Green Conditions", 9th National Meeting on Catalysis and Porous Materials, Portuguese Chemical Society, Porto, May 2013, PL1, p.3 (*plenary lecture*).
- 85 A.J.L. Pombeiro, "Metal-assisted and Metal-catalyzed Activation of Small Molecules", XXIII National Meeting of the Portuguese Chemical Society, Aveiro, June 2013, FS1, p.25 (*plenary lecture, Ferreira da Silva Prize*).
- 86 A.J.L. Pombeiro, M.F.C. Guedes da Silva, "Electrochemical Ligand Parameterization in Half-Sandwich Complexes", XV Iberian Meeting of Electrochemistry/ XXXIV Meeting of the Electrochemistry Group of the Spanish Royal Society of Chemistry, Valencia, Spain, July 2013 (presented by AJLP) (*keynote lecture*).
- 87 A.J.L. Pombeiro, M.F.C. Guedes da Silva, M.L. Kuznetsov, E.C.B.A. Alegria, L.M.D.R.S. Martins, "Combined Electrochemical and Theoretical Studies on ET-induced Reactions of Coordination Compounds", 64th Annual ISE (International Society of Electrochemistry) Meeting, Queretaro, Mexico, September, 2013 (*keynote lecture*, presented by AJLP).
- 88 A.J.L. Pombeiro, M.F.C. Guedes da Silva, "Redox Potential as a Tool for the Characterization and Identification of Metal Complexes", MicroEchem 3013 (New Processes and Materials Based on Electrochemical Concepts at the Microscopic Level, Satellite Conference to the 64th Annual ISE Meeting), La Muralla, Amealco de Bonfil, Queretaro, Mexico, September, 2013 (*keynote lecture*, presented by AJLP).
- 89 A.J.L. Pombeiro, M.F.C. Guedes da Silva, M.L. Kuznetsov, M.N. Kopylovich, K.V. Luzyanin, V.Yu. Kukushkin, "Nitrile- and Isocyanide-derived Pd and Pt Complexes in Metal-mediated Synthesis and Catalytic C-C coupling", 20th Chernyaev Conference on Chemistry, Analytics and Technology of Platinum Metals, October 7-12, 2013, Krasnoyarsk, Russia (*plenary lecture*, presented by AJLP).
- 90 A.J.L. Pombeiro, "Functionalization of Alkanes under Mild Conditions: a Challenge to Coordination Chemistry", Zing Coordination Chemistry Conference, Cancun, Mexico, December, Dec 5-9, 2013 (*plenary lecture*).
- 91 A.J.L. Pombeiro, "On the Way to Metal-catalyzed and Metal-free Functionalization of Alkanes under Green Conditions", One Day on Organometallic Chemistry (in honor of Armando J. L. Pombeiro), University of Oviedo, Jan. 2014
- 92 A.J.L. Pombeiro, "Mono- and Multinuclear Compounds as Efficient Catalyst Precursors in Oxidations of Alkanes and Alcohols", 16th Plenary Scientific Meeting of Inorganic Chemistry/ 10th Scientific Meeting of Solid State Chemistry, Almeria, June 2014, PL1 (*plenary lecture*).
- 93 A.J.L. Pombeiro, "Vanadium Catalysts in Alkane Partial Oxidation", 9th International Vanadium Symposium, Padova, June-July, 2014.
- 94 A.J.L. Pombeiro, "Oxidations of Alkanes and Alcohols under Mild Conditions", XXVI International Conference on Organometallic Chemistry (ICOMC), Sapporo, Japan, July 2014, 2D04S (*session lecture*).
- 95 A.J.L. Pombeiro, "From Electrocatalysis to Alkane Oxidation Catalysis with Inorganic Coordination Compounds", South Europe – Japan Joint Forum: Inorganic Chemistry and Its Interfaces", Strasbourg, France, October 2014 (*plenary lecture*).

- 96 A.J.L. Pombeiro, "Metal-catalyzed Oxidations of Alkanes under Mild Conditions", Conference on Achievements and Problems in Modern Chemistry – Symposium of the International Laboratory of Organometallic Chemistry, Saint Petersburg State University, Russia, November 2014, p.185 (*plenary lecture*).
- 97 A.J.L. Pombeiro, "Catalytic Alkane Oxidations under Mild Conditions", Symposium on Recent Advances in Chemistry (REACH-2015), North Eastern Hill University, Shillong, India, March 2015, PL-2, p.4 (*plenary lecture*).
- 98 A.J.L. Pombeiro, "Water as Solvent, Catalyst and Reagent in Selected Coordination Chemistry Systems", Metal, Water and Sun 2015 Workshop, Almeria, Spain, May 2015 (*plenary lecture*).
- 99 A.J.L. Pombeiro, "Catalysis: the Magic Chemistry", XII Conference on Problems of Solvation and Complex Formation in Solutions (From the Effects in Solutions to New Materials), Yvanovo, Russia, June 2015, p5 (*plenary lecture*).
- 100 A.J.L. Pombeiro, "Playing with Electrons: the Magic of Molecular Electrochemistry", XX Meeting of the Portuguese Electrochemical Society, Braga, October 2015 (*Prize Award lecture*).
- 101 K. Mahmudov, A.J.L. Pombeiro, "Resonance-Assisted Hydrogen Bonding as a Synthetic Tool", Strong Links via Weak Interactions, 5th International Symposium on Organometallic Chemistry, Saint Petersburg State University, Russia, January 2016.
- 102 A.J.L. Pombeiro, "Playing with Water in Metal Catalysis", Cluster Conference *OrgChem-2016*, Repino, St.Petersburg, Russia, June 27-July1, 2016 (*plenary lecture*).
- 103 A.J.L. Pombeiro, "Water ion Alkane Functionalization and Other Oxidation Catalyses with Metal Copordination Compounds", XX International Symposium on Homogeneous Catalysis (ISHC)", Kyoto, Japan, July10-15, 2016, SL22 (*session lecture*).
- 104 A.J.L. Pombeiro, "Vanadium Complexes in Water, Alcohol and Alkane Oxidation Catalysis", 10th International Vanadium Symposium, Taipei, Taiwan, November 6-9, 2016 (*plenary lecture*).
- 105 A.J.L. Pombeiro, "Homogeneous Alkane Functionalization towards Organic Synthesis", OXO Symposium (Advances in OXO process – where science meets industry), Wroclaw, Poland, November 17-18, 2016.
- 106 A.J.L. Pombeiro, "Oxidation and Lewis Acid Metal Catalysis in Water Medium", Metals and Water 2017, II International Conference on Water Soluble Metal Complexes, Jaca, Spain, June 13-15, 2017 (*plenary lecture*).
- 107 A.J.L. Pombeiro, "Inert Alkanes as Potential Feedstocks for Synthesis?", XXV Meeting of the Portuguese Chemical Society, Lisbon, July 16-19, 2017 (*plenary lecture*).
- 108 A.J.L. Pombeiro, "Functionalization of Alkanes: a Challenge in Catalysis towards Organic Synthesis", 2nd International Symposium on Synthesis and Catalysis (ISySyCat), Évora, Portugal, September 5-8, 2017 (*plenary lecture*).
- 109 K.T. Mahmudov, A.V. Gurbanov, M.F.C. Guedes da Silva, A.J.L. Pombeiro, "Noncovalent Interactions in Synthesis, Catalysis and Design of Materials", IUPAC Workshop@ISXB-3 Interactions Involving Group 14 - 16 Elements as Electrophilic Sites: A World Parallel to Halogen Bond, 9 –14 June 2018, Greenville, USA, p. 36 (*invited lecture presented by KTM*).
- 110 A.J.L. Pombeiro, "Coordination Polymers and Multinuclear Compounds as Catalysts in Oxidation, Cyanosilylation and Other Reactions", 28th International Conference on Organometallic Chemistry, Florence, Italy, July 15-20, 2018, IL31 (*invited lecture*).

- 111 A.J.L. Pombeiro, "Synthesis and Catalytic Applications of Vanadium Complexes with N- or O-Ligands", 11th International Vanadium Symposium, Montevideo, Uruguay, 5-8 November, 2018, PL-5 (*Vanadis award plenary lecture*).
- 112 A.J.L. Pombeiro, "Vanadium Complexes in Oxidation Catalysis: Metal-ligand Cooperation", Spring 2019 American Chemical Society National Meeting, Orlando, USA, March 31 - April 4, 2019 (Symposium in honor of Debbie Crans: ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry, ACS Inorganic Chemistry Division). *Abstracts of Papers of the American Chemical Society*, 2019, 257, Abstract 500.
- 113 A.J.L. Pombeiro, "Alkanes as Potential Feedstocks in Metal Catalysed Organic Synthesis", 5th International Scientific Conference "Advances in Synthesis and Complexing", RUDN University, Moscow, Russia, April 22-26, 2019 (*keynote lecture*).
- 114 K.T. Mahmudov, M.F.C. Guedes da Silva, A.J.L. Pombeiro, "Noncovalent Interactions in Catalysis", World Chemistry Forum 2019, Barcelona, Spain, May 22-24, 2019 (*invited lecture presented by KTM*).
- 115 A.J.L. Pombeiro, "Coordination Chemistry and Catalysis Group at the University of Lisbon: Alkane Functionalization", Société Chimique de France (SCF, French Chemical Society) Prizes meeting, Maison de la Chimie, Paris, May 16th, 2019 (*SCF French-Portuguese Award lecture*).
- 116 A.J.L. Pombeiro, "Catalytic Alkane Functionalization towards Sustainable Synthesis", XI International Conference for Young Scientists Mendeleev 2019, Institute of Chemistry, Saint Petersburg State University, September 10th, 2019 (*Honorary Professorship plenary lecture*).
- 117 K.T. Mahmudov, A.V. Gurbanov, M.F.C. Guedes da Silva, A.J.L. Pombeiro, "Noncovalent Interactions in Metal Complex Catalysis", 1st International Conference on Noncovalent Interactions (ICNI), 2019, Lisboa, Portugal, September 2-6, 2019, KL23 (*keynote lecture presented by KTM*).
- 118 A.J.L. Pombeiro, "Alkane Functionalization: a Promising Approach for Organic Synthesis?", XXI Mendeleev Congress on General and Applied Chemistry, Saint Petersburg, September 11th, 2019 (*invited lecture*).
- 119 A.J.L. Pombeiro, "Alkane Functionalization, the Avenir of a New Era in Organic Synthesis", Chemistry of the Organoelement Compounds and Polymers, INEOS (Nesmeyanov Institute of Organoelement Compounds) 65th Anniversary Conference, Moscow, November 18th-22nd, 2019 (*plenary lecture*).
- 120 A.J.L. Pombeiro, "Catalysis towards Translational Alkane Functionalization", 3rd International Caparica Christmas Conference on Translational Chemistry, Costa da Caparica, Portugal, December 2nd-5th, 2019 (*plenary lecture*).
- 121 K.T. Mahmudov, V.A. Aliyeva, M.F.C. Guedes da Silva, A.J.L. Pombeiro, "Copper(II) Arylhydrazonates: Synthesis and Catalysis", III International Workshop on Chemistry of Group 11 Elements, NOVA School of Science and Technology, Caparica, Portugal, January 30th-31st, 2020 (*keynote lecture, presented by KTM*).
- 122 A.J.L. Pombeiro, "Metal Coordination Catalysis of Selected Small Molecules towards Sustainability", 3rd Struchkov Meeting (International Workshop on Chemical Crystallography and Structural Biology), RUDN University, Moscow, November 15th-19th, 2021 (*plenary lecture, videoconference*).
- 123 K.T. Mahmudov, A.V. Gurbanov, V.A. Aliyeva, M.F.C. Guedes da Silva, G. Resnati, A.J.L. Pombeiro, "Chalcogen bonding at the secondary coordination sphere of metal complexes: Invariability and Tunability", IUPAC Workshop "Interactions Involving Elements of Group 11,

- 14, 15, 16 and beyond”, July 22, 2022, within the 2nd International Conference on Non-Covalent Interactions (ICNI), University of Strasbourg, France, July 18-22, 2022, WS5 (*invited lecture, presented by KTM*).
- 124 A.J.L. Pombeiro, “Selected Topics towards Sustainable Redox and Lewis Acid Catalysis”, 6th International Scientific Conference “Advances in Synthesis and Complexing”, RUDN University, Moscow, Russian Federation, September 26-30, 2022 (*keynote lecture, videoconference*).
- 125 A.J.L. Pombeiro, “Coordination Polymers and Metal-Organic Frameworks (MOFs) in Selected Catalytic Reactions”, 4th International Symposium Modern Trends in Organometallic Chemistry (dedicated to Mark Vol’pin 100th Anniversary), INEOS (Nesmeyanov Institute of Organoelement Compounds), Moscow, Russian Federation, May 23-27, 2023, RL1 (*opening plenary lecture, videoconference*).
- 126 A.J.L. Pombeiro, “Shift of Alkanes from Fuels to Feedstocks for Organic Synthesis: a Proof of Concept towards Sustainability”, Annual Symposium of the European Academy of Sciences (EURASC) “Science Multidisciplinarity in the 21st Century: the future of energy”, Real Academia de Ciencias Exactas, Físicas y Naturales de España, October 23-24, 2023, Madrid, Spain (*invited lecture*).
- 127 A.J.L. Pombeiro, “Organonitrogen Ligand Complexes in Selected Catalytic Reactions”, 8th EuChemS Conference on Nitrogen Ligands, Cassis, France, June 3-7, 2024 (*plenary lecture*).
- 128 A.G. Mahmoud, P. Smoleński, I.L. Librando, N. Reis Conceição, S.A.C. Carabineiro, M.F.C. Guedes da Silva, A.J.L. Pombeiro, “Hydrosoluble copper complexes bearing PTA-core ligands as catalysts for organic transformations in aqueous medium”, 30th International Conference on Organometallic Chemistry (ICOMC), Agra, India, July 15-18th, 2024 (*keynote lecture, presented by AJLP*).
- 129 A.J.L. Pombeiro, “Metal-Organic Frameworks (MOFs) and Coordination Polymers as Catalysts in Selected Reactions”, American Chemical Society (ACS) Global Virtual Symposium on Emerging Landscape of Organometallic Chemistry and Catalysis, August 18-22, 2024 (*invited lecture, videoconference*) (to be presented).