

2018 - Sustainable Industrial Processing Summit & Exhibition

2018 SIPS



AMATORE INTERNATIONAL SYMPOSIUM

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Christian Amatore

List of Publications

(August 2017)

I. Publications in International Journals with Peer Review :

(Total :486)

○ Journals with General Scope		: (102)	
• <i>Acc. Chem. Res.</i>	: 1	• <i>C.R. Acad. Sci. Paris.</i>	: 5
• <i>Acta Chem. Scand.</i>	: 2	• <i>Isr. J. Chem.</i>	: 1
• <i>Angew. Chem.</i>	: 22	• <i>J. Am. Chem. Soc.</i>	: 32
• <i>Bull. Soc. Chim. Fr.</i>	: 1	• <i>Nature, Scientific Reports</i>	: 2
• <i>Chem. Eur. J.</i>	: 23	• <i>Nature, Protocol Exchange</i>	: 1
• <i>Chem. Commun. (reviews)</i>	: 2	• <i>New J. Chem.</i>	: 6
• <i>Chem. Rev.</i>	: 1	• <i>Proc Natl Acad Sci USA</i>	: 1
• <i>Chem. Sc.</i>	: 1	• <i>RSC Adv.</i>	: 1
○ Journals Specifically Focused on Analytical or Physical Chemistry		: (232)	
• <i>Analyst</i>	: 1	• <i>J. Electrochem. Soc.</i>	: 3
• <i>Anal. Chem.</i>	: 38	• <i>J. Mat. Chem. B</i>	: 1
• <i>Biomater. Sc.</i>	: 1	• <i>J. Photochem. Photobiol. A: Chem.</i>	: 1
• <i>Analisis</i>	: 1	• <i>J. Phys. Chem. (A or B)</i>	: 6
• <i>Chem. Phys.</i>	: 1	• <i>J. Phys. Condens. Matter</i>	: 1
• <i>ChemElectroChem</i>	: 7	• <i>Electrocatalysis</i>	: 1
• <i>ChemPhysChem</i>	: 23	• <i>Lab. Chip.</i>	: 1
• <i>Chem. Phys. Lett.</i>	: 1	• <i>Macromol. Chem. Phys.</i>	: 1
• <i>Curr. Opin. Electrochem.</i>	: 1	• <i>Molecular Phys.</i>	: 1
• <i>Electroanalysis</i>	: 3	• <i>Nano Res.</i>	: 1
• <i>Electrochim. Acta</i>	: 12	• <i>Nanotechnology</i>	: 1
• <i>Electrochem. Commun.</i>	: 20	• <i>PCCP</i>	: 3
• <i>Faraday Discuss.</i>	: 3	• <i>Port. Electrochim. Acta</i>	: 3
• <i>J. Appl. Electrochem.</i>	: 2	• <i>Proc. Royal Soc. A</i>	: 1
• <i>J. Chem. Phys.</i>	: 1	• <i>Russian J. Phys. Chem. A</i>	: 1
• <i>J. Electroanal. Chem.</i>	: 87	• <i>Russian J. Electrochem.</i>	: 2
• <i>J. Electrochemistry</i>	: 1	• <i>Trans. Electrochem. Soc.</i>	: 1
○ Journals Specifically Focused on Molecular or Material Chemistry		: (111)	
• <i>ACS Appl. Mat. & Interf.</i>	: 1	• <i>J. Fluorine Chem.</i>	: 4
• <i>Adv. Synth. Catal.</i>	: 1	• <i>J. Organomet. Chem.</i>	: 15
• <i>Carbohydr. Res.</i>	: 1	• <i>J. Org. Chem.</i>	: 9
• <i>Coord. Chem. Rev.</i>	: 1	• <i>Organometallics</i>	: 31
• <i>Eur. J. Inorg. Chem.</i>	: 10	• <i>Polyhedron</i>	: 1
• <i>Eur. J. Org. Chem.</i>	: 3	• <i>RSC Adv.</i>	: 2
• <i>Inorg. Chem.</i>	: 5	• <i>RSC Dalton</i>	: 2
• <i>Inorg. Chim. Acta</i>	: 23	• <i>Syn. Lett.</i>	: 2
• <i>J. Chem. Soc., Chem. Commun.</i>	: 8	• <i>Synthesis</i>	: 2
• <i>J. Chem. Soc., Dalton Trans.</i>	: 2	• <i>Tetrahedron</i>	: 1
• <i>J. Chem. Soc., Perkin Trans. 2</i>	: 2	• <i>Tet. Lett.</i>	: 6
○ Journals Specifically Focused on Biology and Medicine		: (28)	
• <i>Biomed. Pharm., AIDS Sc. Sec.</i>	: 1	• <i>ChemMedChem</i>	: 3
• <i>Biochim.</i>	: 1	• <i>Curr. Top. Med. Chem.</i>	: 1
• <i>Biochem. Biophys. Res. Commun.</i>	: 1	• <i>J. Med. Chem.</i>	: 1
• <i>Biophys. Chem.</i>	: 5	• <i>J. Neuroscience</i>	: 2
• <i>Biophys. J.</i>	: 2	• <i>J. Virology</i>	: 1
• <i>Carcinogenesis</i>	: 2	• <i>Math. Med. Biol.</i>	: 1
• <i>Cell Death and Differentiation</i>	: 1	• <i>Neuroscience</i>	: 1
• <i>ChemBioChem</i>	: 4	• <i>Quarter. Rev. Biophys.</i>	: 1
○ Journals Focused on Applied Mathematics		: (3)	
• <i>Nonlin. Anal. Model & Control</i>	: 3		
○ Journals with Peer Review but not included in the ISI Web of Knowledge database when published		: (10)	

II. Chapters and Collective Books :

(Total 28)

III. Diffusion of Scientific Information :

(Total 18)

IV. Filed patents :

(Total 6)

I. Publications in International Journals with Peer Review.

1. ECE and Disproportionation. Part V. Stationary State General Solution. Application to Linear Sweep Voltammetry. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **85**, **1977**, 27-46.
2. Do ECE Mechanisms Occur in Conditions Where They Could Be Characterized by Electrochemical Techniques? C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **86**, **1978**, 227-232.
3. Convolution and Finite Differences Approach. Application to Cyclic Voltammetry and Spectroelectrochemistry. C. Amatore, L. Nadjo, J.-M. Savéant. *J. Electroanal. Chem.*, **90**, **1978**, 321-331.
4. ECE and Disproportionation. Part VI. General Resolution. Application to Potential Step Chronoamperometry. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **102**, **1979**, 21-40.
5. Electrochemically Induced Chemical Reactions. Kinetics of Competition with Electron Transfer. C. Amatore, J.-M. Savéant, A. Thiébaud. *J. Electroanal. Chem.*, **103**, **1979**, 303-320.
6. Electrochemically Induced Aromatic Nucleophilic Substitution in Liquid Ammonia. Competition with Electron Transfer. C. Amatore, J. Chaussard, J. Pinson, J.-M. Savéant, A. Thiébaud. *J. Am. Chem. Soc.*, **101**, **1979**, 6012-6020.
7. Electrochemical Hydrogenation of Aromatic Hydrocarbons. Discrimination between ECE and Disproportionation Mechanisms by Double Step Chronoamperometry. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **107**, **1980**, 353-364.
8. Trace Crossing in Cyclic Voltammetry and Electrochemical Inducement of Chemical Reactions. Aromatic Nucleophilic Substitution. C. Amatore, J. Pinson, J.-M. Savéant, A. Thiébaud. *J. Electroanal. Chem.*, **107**, **1980**, 59-74.
9. Current Dips in Polarography and Cyclic Voltammetry Associated with Electrochemical Inducement of Chemical Reactions. Aromatic Nucleophilic Substitution. C. Amatore, J. Pinson, J.-M. Savéant, A. Thiébaud. *J. Electroanal. Chem.*, **107**, **1980**, 75-86.
10. ECE Reaction Pathways in the Electrochemical Reduction of Dicyanocobalamin. Kinetics of Ligand Substitution in Vitamin B_{12r} (Co[II]balamin). C. Amatore, D. Lexa, J.-M. Savéant. *J. Electroanal. Chem.*, **111**, **1980**, 81-89.
11. Product Distribution in Preparative Scale Electrolysis. I. Introduction. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **123**, **1981**, 189-201.
12. Product Distribution in Preparative Scale Electrolysis. II. EC Reaction Schemes Followed by Competition between First Order Chemical Reaction and Further Electron Transfer. One Electron Systems. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **123**, **1981**, 203-217.
13. Product Distribution in Preparative Scale Electrolysis. III. EC Reaction Schemes Followed by Competition between First Order Chemical Reaction and Further Electron Transfer. Two Electron Systems. C. Amatore, F. M'Halla, J.-M. Savéant. *J. Electroanal. Chem.*, **123**, **1981**, 219-229.
14. Product Distribution in Preparative Scale Electrolysis. IV. EC Reaction Schemes Followed by Competition between First Order Chemical Reaction and Further Electron Transfer. Electrocatalytic Systems. C. Amatore, J. Pinson, J.-M. Savéant, A. Thiébaud. *J. Electroanal. Chem.*, **123**, **1981**, 231-242.
15. Product Distribution in Preparative Scale Electrolysis. V. EC Reaction Schemes Followed by Competition between Dimerization and First Order Deactivation or Further Electron Transfer. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **125**, **1981**, 1-21.
16. Product Distribution in Preparative Scale Electrolysis. VI. Competition between Dimerization and First Order Deactivation. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **125**, **1981**, 23-39.
17. Product Distribution in Preparative Scale Electrolysis. VII. Competition at the Level of the First Electron Intermediate between Self-Coupling, Coupling with the Substrate and First Order Deactivation Followed by Further Electron Transfer. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **126**, **1981**, 1-19.
18. Mechanism and Kinetic Characteristics of the Reduction of Carbon Dioxide in Media of Low Proton Availability. C. Amatore, J.-M. Savéant. *J. Am. Chem. Soc.*, **103**, **1981**, 5021-5023.
19. Electron Transfer Induced Reactions. Termination Steps and Efficiency of the Chain Process in S_{RN}1 Aromatic Substitution. C. Amatore, J. Pinson, J.-M. Savéant, A. Thiébaud. *J. Am. Chem. Soc.*, **103**, **1981**, 6930-6937.
20. Electron Transfer Induced Reactions. Electrochemically Stimulated Aromatic Nucleophilic Substitution in Organic Solvents. C. Amatore, J. Pinson, J.-M. Savéant, A. Thiébaud. *J. Am. Chem. Soc.*, **104**, **1982**, 817-826.

21. Hydrogen Atom Transfer Oxidation of Primary and Secondary Alcoholates into Aldehydes and Ketones by Aromatic Halides in Liquid Ammonia. A New Electrochemically Induceable Reaction. C. Amatore, J. Badoz-Lambling, C. Bonnel-Huyghes, J. Pinson, J.-M. Savéant, A. Thiébaud. *J. Am. Chem. Soc.*, **104**, **1982**, 1979-1986.
22. Are Anion Radicals Unable to Undergo Radical-Radical Dimerization? C. Amatore, J. Pinson, J.-M. Savéant. *J. Electroanal. Chem.*, **137**, **1982**, 143-148.
23. The Role of Water in Organic Electroreductive Dimerizations in Aprotic Solvents. How General is the Anion Radical / Water Complex Mechanism? C. Amatore, J. Pinson, J.-M. Savéant. *J. Electroanal. Chem.*, **139**, **1982**, 193-197.
24. Mechanism Analysis of Electrochemical Reactions Involving Homogeneous Chemical Steps. The Electrodimerization of 4-methoxybiphenyl. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **144**, **1983**, 59-67.
25. Kinetics of Electron Transfer to Organic Molecules at Solid Electrodes in Organic Media. C. Amatore, J.-M. Savéant, D. Tessier. *J. Electroanal. Chem.*, **146**, **1983**, 37-45.
26. Homogeneous vs. Heterogeneous Electron Transfer in Electrochemical Reactions. Application to the Electrohydrogenation of Anthracene and Related Reactions. C. Amatore, M. Gareil, J.-M. Savéant. *J. Electroanal. Chem.*, **147**, **1983**, 1-38.
27. Charge Transfer at Partially Blocked Surfaces. A Model for the Case of Microscopic Active and Inactive Sites. C. Amatore, J.-M. Savéant, D. Tessier. *J. Electroanal. Chem.*, **147**, **1983**, 39-51.
28. Competitive Pathways in the Electrochemical Reduction of Activated Olefins. Hydrogenation vs. Dimerization of Fumarodinitrile in Water. C. Amatore, R. Guidelli, M.R. Moncelli, J.-M. Savéant. *J. Electroanal. Chem.*, **148**, **1983**, 25-49.
29. Ligand Exchange of Metal Carbonyls by Chain Mechanisms. Electrochemical Kinetics of Electron Transfer Catalysis. J.W. Hersberger, C. Amatore, J.K. Kochi. *J. Organomet. Chem.*, **250**, **1983**, 345-371. [Invited paper ; 250th Special Issue].
30. Electrosynthesis of Hydridometal Carbonyls. Rapid Ligand Substitution in Transient Mn⁰ Intermediates from the Reduction of Carbonylmanganese(I) Cations. B.A. Narayanan, C. Amatore, J.K. Kochi. *J. Chem. Soc., Chem. Commun.*, **1983**, 397-399.
31. Charge Transfer Excitation of Electron Donor-Acceptor Complexes. Direct Observation of Ion Pairs by Time-resolved Picosecond Spectroscopy. E.F. Hilinski, J.M. Masnovi, C. Amatore, J.K. Kochi, P.M. Rentzepis. *J. Am. Chem. Soc.*, **105**, **1983**, 6167-6168.
32. Novel Chain Mechanism for the Formyl-metal to Hydrido-metal Conversion. Free Radical, Photochemical and Electrochemical Methods of Initiation. B.A. Narayanan, C. Amatore, C.P. Casey, J.K. Kochi. *J. Am. Chem. Soc.*, **105**, **1983**, 6351-6352.
33. Kinetics and Mechanism of Aromatic Oxidative Substitutions via Electron Transfer. Application of Marcus Theory to Organic Processes in the Endergonic Region. C.J. Schlesener, C. Amatore, J.K. Kochi. *J. Am. Chem. Soc.*, **106**, **1984**, 3567-3577.
34. Steric and Electronic Effects in Ligand Substitution of Metal Carbonyls. Rapid Kinetics of Labile Carbonylmanganese Complexes by Transient Electrochemical Techniques. P.M. Zizelman, C. Amatore, J.K. Kochi. *J. Am. Chem. Soc.*, **106**, **1984**, 3771-3784.
35. Electron Transfer from Aromatic Hydrocarbons and their π -Complexes with Metals. Comparison of the Standard Oxidation Potentials and Vertical Ionization Potentials. J.O. Howell, J. Goncalves, C. Amatore, L. Klasinc, R.M. Wightman, J.K. Kochi. *J. Am. Chem. Soc.*, **106**, **1984**, 3968-3976.
36. Unusual Stabilization of Formylmetal Complexes. B.A. Narayanan, C. Amatore, J.K. Kochi. *Organometallics*, **3**, **1984**, 802-804.
37. Electron Transfer Induced Reactions. A Novel Approach Based on Electrochemical Redox Catalysis. Application to Aromatic Nucleophilic Substitution. C. Amatore, M.A. Oturan, J. Pinson, J.-M. Savéant, A. Thiébaud. *J. Am. Chem. Soc.*, **106**, **1984**, 6318-6321.
38. Rates and Mechanisms of Proton Transfer from Transient Carbon Acids. Kinetic Acidity of Methylbenzene Cation Radicals. C.J. Schlesener, C. Amatore, J.K. Kochi. *J. Am. Chem. Soc.*, **106**, **1984**, 7472-7482.
39. Slow Charge Transfer Associated with a Fast Equilibrated Follow-up Dimerization Reaction. N. Fatouros, M. Chemla, C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **172**, **1984**, 67-81.
40. Kinetics of the Protonation of Anthracene Anion Radical by Phenol in Dimethylformamide. C. Amatore, M. Gareil, J.-M. Savéant. *J. Electroanal. Chem.*, **176**, **1984**, 377-382.

41. A propos de la Reduction Electrochimique du Dioxyde de Carbone. C. Amatore, L. Nadjo, J.-M. Savéant. *Nouv. J. Chim.*, **8**, **1984**, 565-566.
42. Kinetics and Mechanism of Self-Protonation Reactions in Organic Electrochemical Processes. C. Amatore, G. Capobianco, G. Farnia, G. Sandonà, J.M. Savéant, M.G. Severin, E. Vianello. *J. Am. Chem. Soc.*, **107**, **1985**, 1815-1824.
43. Kinetic Analysis of Reversible Electrodimerization Reactions by the Combined Use of Double Potential Step Chronoamperometry and Linear Sweep Voltammetry. Application to the Reduction of 9-Cyanoanthracene. C. Amatore, D. Garreau, M. Hammi, J. Pinson, J.M. Savéant. *J. Electroanal. Chem.*, **184**, **1985**, 1-24.
44. Electrochemically Induced Reactions: Kinetics of the Competition with Homogeneous Electron Transfer in Non-Catalytic Systems. Application to the Substitution of 4-Bromobenzophenone by Cyanide Ions in Liquid Ammonia. C. Amatore, J.M. Savéant, C. Combellas, S. Robveille, A. Thiébault. *J. Electroanal. Chem.*, **184**, **1985**, 25-40.
45. Nucleophile and Aryl Radical Reactivity in $S_{RN}1$ Aromatic Nucleophilic Substitution Reactions. Absolute and Relative Electrochemical Determination. C. Amatore, M.A. Oturan, J. Pinson, J.M. Savéant, A. Thiébault. *J. Am. Chem. Soc.*, **107**, **1985**, 3451-3459.
46. Electrochemically Induced $S_{RN}1$ Aromatic Nucleophilic Substitution. Absolute Reactivities of Phenyl Derivatives in Liquid Ammonia. C. Amatore, C. Combellas, J. Pinson, M.A. Oturan, S. Robveille, J.M. Savéant, A. Thiébault. *J. Am. Chem. Soc.*, **107**, **1985**, 4846-4853.
47. Reduction of Metal Carbonyls via Electron Transfer. Formation and Decomposition of Formylmetal Intermediates. B.A. Narayanan, C. Amatore, J.K. Kochi. *Organometallics*, **5**, **1986**, 926-935.
48. Electrochemical Kinetics at Microelectrodes. Part I. Quasi Reversible Electron Transfer at Cylinders. C.A. Amatore, M.R. Deakin, R.M. Wightman. *J. Electroanal. Chem.*, **206**, **1986**, 23-36.
49. Mechanism of the Electrochemical Reduction of Hydroxy Imino Anthraquinones in DMF. C. Amatore, A. Anne, J.C. Florent, J. Moiroux. *J. Electroanal. Chem.*, **207**, **1986**, 151-160.
50. Electrochemically Catalyzed Aromatic Nucleophilic Substitution. Reactivity of Cyanide Ions toward Aryl Radicals in Liquid Ammonia. C. Amatore, C. Combellas, S. Robveille, J.M. Savéant, A. Thiébault. *J. Am. Chem. Soc.*, **108**, **1986**, 4754-4760.
51. Electrochemically Induced Aromatic Nucleophilic Substitution. The 2-Nitropropane anion, a Powerful Nucleophile in $S_{RN}1$ Aromatic Substitution. C. Amatore, M. Gareil, M.A. Oturan, J. Pinson, J.M. Savéant, A. Thiébault. *J. Org. Chem.*, **51**, **1986**, 3757-3761.
52. Marcus Theory in Organic Chemistry. Mechanism of Electron Transfer and Proton Transfer from Aromatics and their Cation Radicals. C.J. Schlesener, C. Amatore, J.K. Kochi. *J. Phys. Chem.*, **90**, **1986**, 3747-3756. [Invited paper; Special Issue in Honor of Rudy Marcus].
53. Electrochemical Kinetics at Microelectrodes. Part II. Cyclic Voltammetry at Band Electrodes. M.R. Deakin, R.M. Wightman, C.A. Amatore. *J. Electroanal. Chem.*, **215**, **1986**, 49-61.
54. Effect of Restricted Diffusion at Ultramicroelectrodes in Brain Tissue. The Pool Model: Theory and Experiment for Chronoamperometry. C. Amatore, R.S. Kelly, E.W. Kristensen, W.G. Kuhr, R.M. Wightman. *J. Electroanal. Chem.*, **213**, **1986**, 31-42.
55. Manganese(0) Radicals and the Reduction of Cationic Carbonyl Complexes. Selectivity in the Ligand Dissociation from 19-electrons Species. D.J. Kuchynka, C. Amatore, J.K. Kochi. *Inorg. Chem.*, **25**, **1986**, 4087-4097.
56. Electroreduction of Carbonylmanganese(I) Cations. Mechanism of Ligand Substitution and Hydride Formation Via Mn(0) Intermediates. B.A. Narayanan, C. Amatore, J.K. Kochi. *Organometallics*, **6**, **1987**, 129-136.
57. Nanosecond Time Resolved Cyclic Voltammetry. Direct Observation of Electrogenenerated Intermediates with Bimolecular Diffusion Controlled Decay Using Scan Rates in the Megavolt per Second Range. C. Amatore, A. Jutand, F. Pflüger. *J. Electroanal. Chem.*, **218**, **1987**, 361-365.
58. Electrochemical Kinetics at Microelectrodes. Part III. Equivalency Between Band and Hemicylinder Electrodes. C.A. Amatore, B. Fosset, M.R. Deakin, R.M. Wightman. *J. Electroanal. Chem.*, **225**, **1987**, 33-48.
59. Electrochemical Kinetics at Microelectrodes. Part IV. Electrochemistry in Media of Low Ionic Strength. C. Amatore, M.R. Deakin, R.M. Wightman. *J. Electroanal. Chem.*, **225**, **1987**, 49-63.
60. Electrosynthesis of Unsymmetrical Biaryls Using a $S_{RN}1$ Type Reaction. N. Alam, C. Amatore, C. Combellas, A. Thiébault, J.-N. Verpeaux. *Tetrahedron Let.*, **28**, **1987**, 6171-6174.
61. Electrooxidation of Metal Carbonyl Anions. Formation and Reactivity of 17-Electron Manganese(0) Radicals. D.J. Kuchynka, C. Amatore, J.K. Kochi. *J. Organomet. Chem.*, **328**, **1987**, 133-154.

62. Phenoxide Ions as Nucleophiles in $S_{RN}1$ Aromatic Nucleophilic Substitution. C. Amatore, C. Combellas, J. Pinson, J.M. Savéant, A. Thiébauld. *J. Chem. Soc., Chem. Commun.*, **1988**, 7-8.
63. Selective Electrochemical and Photochemical Synthesis of Unsymmetrical Biaryls and their Non-Linear Optical Properties. C. Combellas, H. Gautier, J. Simon, A. Thiébauld, F. Tournilhac, M. Barzoukas, D. Josse, I. Ledoux, C. Amatore, J.-N. Verpeaux. *J. Chem. Soc., Chem. Commun.*, **1988**, 203-204.
64. Reactivity of Carbonylmanganese Radicals toward Tributyltin Hydride. Kinetics Analysis of the Anodic Oxidation of $Mn(CO)_3[P(OPh)_3]_2^-$. C. Amatore, D.J. Kuchynka, J.K. Kochi. *J. Electroanal. Chem.*, **241**, **1988**, 181-197.
65. Chelation of Iron(II) Dithiocarbamates: an Electrocatalytic Process with an Endergonic Cross Electron-transfer Propagation Step. C. Amatore, J.N. Verpeaux, A. Madonik, M.-H. Desbois, D. Astruc. *J. Chem. Soc., Chem. Commun.*, **1988**, 200-202.
66. Electrochemically Catalyzed Aromatic Nucleophilic Substitution. Phenoxide Ion as Nucleophile. N. Alam, C. Amatore, C. Combellas, J. Pinson, J.M. Savéant, A. Thiébauld, J.-N. Verpeaux. *J. Org. Chem.*, **53**, **1988**, 1496-1504.
67. Real-Time Characterization of Dopamine Overflow and Uptake in the Rat Striatum. R.M. Wightman, C. Amatore, R.C. Engstrom, P.D. Hale, E.W. Kristensen, W.G. Kuhr, L.J. May. *Neuroscience*, **25**, **1988**, 513-523.
68. Construction and Use of Paired and Triple Band Microelectrodes in Solutions of Low Ionic Strength. J.E. Bartelt, M.R. Deakin, C. Amatore, R.M. Wightman. *Anal. Chem.*, **60**, **1988**, 2167-2169.
69. Rates and Mechanism of Biphenyl Synthesis Catalyzed by Electrogenerated Coordinatively Unsaturated Nickel Complexes. C. Amatore, A. Jutand. *Organometallics*, **7**, **1988**, 2203-2214.
70. Electrochemical Kinetics at Microelectrodes. Part V. Migrational Effects on Steady or Quasi-Steady State Voltammograms. C. Amatore, B. Fosset, J.E. Bartelt, M.R. Deakin, R.M. Wightman. *J. Electroanal. Chem.*, **256**, **1988**, 255-268.
71. The Electrochemical Reduction of $Fe(CO)_5$ Revisited. C. Amatore, J.-N. Verpeaux, P.J. Krusic. *Organometallics*, **7**, **1988**, 2426-2428.
72. Monosubstitution vs Disubstitution in the $S_{RN}1$ Reactions of Dihalobenzenes with Sulfanions. The Role of the Monosubstitution Product and of its Anion Radical. C. Amatore, R. Beugelmans, M. Bois-Choussy, C. Combellas, A. Thiébauld. *J. Org. Chem.*, **54**, **1989**, 5688-5695.
73. Electrosynthesis of 2,2',6,6'-tetraaryl 4,4'-Bipyrranylidene with Eight Flexible Chains. C. Amatore, A. Jutand, F. Pflüger, C. Jallabert, H. Strzelecka, M. Veber. *Tetrahedron Lett.*, **30**, **1989**, 1383-1386.
74. Stabilization of bis(triphenylphosphine)-Palladium (0) by Chloride Ions. Electrochemical Generation of Highly Reactive Zerovalent Palladium Complexes. C. Amatore, M. Azzabi, A. Jutand. *J. Organomet. Chem.*, **363**, **1989**, C41-C45.
75. Microdisk Electrodes. Part I. Digital Simulation with a Conformal Map. A.C. Michael, R.M. Wightman, C.A. Amatore. *J. Electroanal. Chem.*, **267**, **1989**, 33-45.
76. Unexpected Single Electron Transfer Catalyzed Cyclisation of Prenyl Sulfone Dimer: Evidence for Radical / Anion Coupling in the Outer-Sphere Oxidation of Prenyl Sulfone Carbanion. C. Amatore, A. Thiébauld, J.-N. Verpeaux. *J. Chem. Soc., Chem. Commun.*, **1989**, 1543-1545.
77. On-Line Compensation of Ohmic-Drop in Submicrosecond Time Resolved Cyclic Voltammetry at Ultramicroelectrodes. C. Amatore, C. Lefrou, F. Pflüger. *J. Electroanal. Chem.*, **270**, **1989**, 43-59.
78. Nickel Catalyzed Electrosynthesis of Anti-Inflammatory Agents. Part III. Description of a New Type of Electrolyzer for Organic Solvents. Oxidation of Metal Powder as an Alternative to Sacrificial Anode. J.F. Fauvarque, Y. de Zelicourt, C. Amatore, A. Jutand. *J. Applied. Electrochem.*, **20**, **1990**, 338-340.
79. Electron-Transfer Catalyzed Chelation of $[Fe(\eta^5-C_5R_5)-(\eta^1-SC(S)NMe_2)(CO)_2]$, R= H or Me, Induced by Oxidation. M.-H. Desbois, J.-N. Verpeaux, A. Madonik, C. Amatore, D. Astruc. *Organometallics*, **9**, **1990**, 630-640.
80. Efficient Palladium Catalyzed Synthesis of Unsymmetrical Donor-Acceptor Polyaryls. C. Amatore, J.-F. Fauvarque, A. Jutand, S. Negri. *J. Organomet. Chem.*, **390**, **1990**, 389-398.
81. Mechanism of Oxidative Addition of Palladium(0) with Aromatic Iodides in Toluene, Monitored at Ultramicroelectrodes. C. Amatore, F. Pflüger. *Organometallics*, **9**, **1990**, 2276-2282.
82. Absolute Determination of Electron Consumption in Transient or Steady State Electrochemical Techniques. C. Amatore, M. Azzabi, P. Calas, A. Jutand, C. Lefrou, Y. Rollin. *J. Electroanal. Chem.*, **288**, **1990**, 45-63.

83. Electrochemical Initiation of Radical Chain Addition of F-nButyl Iodide to Acetylenic Alcohols. Cyclic Voltammetric Investigation of the Mechanism. P. Calas, C. Amatore, L. Gomez, A. Commeyras. *J. Fluorine Chem.*, **49**, **1990**, 247-261.
84. Rates and Mechanisms of Electron Transfer/Nickel Catalyzed Homocoupling and Carboxylation Reactions. An Electrochemical Approach. C. Amatore, A. Jutand. *Acta Chim. Scand., Ser.B*, **44**, **1990**, 755-764. [Invited paper].
85. Electrochemical Glycosylation using Phenyl S-Glycosides. C. Amatore, A. Jutand, J.M. Mallet, G. Meyer, P. Sinaÿ. *J. Chem. Soc., Chem. Commun.*, **1990**, 718-719.
86. An Electron Paramagnetic Resonance and Electrochemical Study of the Oxidation Chemistry of Mononuclear and Binuclear Chromium Carbonyl Thiolates. J. Springs, C.P. Janzen, M.Y. Darensbourg, J.C. Calabrese, P.J. Krusic, J.N. Verpeaux, C. Amatore. *J. Am. Chem. Soc.*, **112**, **1990**, 5789-5797.
87. Theory and Experimental Illustration of Preparative Electrochemistry Using Redox-Catalysis of Electron Transfer Initiated Radical Chain Reactions. Application to the Cross-Coupling Between Aryl Halides and Phenoxide Ions. N. Alam, C. Amatore, C. Combellas, A. Thiébault, J.N. Verpeaux. *J. Org. Chem.*, **55**, **1990**, 6347-6356.
88. Glycosylation Using a One-Electron Transfer Homogeneous Reagent: a Novel and Efficient Synthesis of β -Linked Disaccharides. A. Marra, J.-M. Mallet, C. Amatore, P. Sinaÿ. *Syn. Let.*, **1990**, 572-574.
89. Is Cyclic Voltammetry Above A Few Hundred KiloVolts per Second Still Cyclic Voltammetry? C. Amatore, C. Lefrou. *J. Electroanal. Chem.*, **296**, **1990**, 335-358. [Invited paper; Special Issue commemorating the would-be 100th birthday of J. Heyrovsky].
90. Coupling Between Radical and Anion in the Outersphere Oxidation of α -Sulfonyl Carbanions. Its Rôle on the Product Distribution Between Dimeric Olefin and Disulfone. C. Amatore, T. El Moustafid, C. Rolando, A. Thiébault and J.-N. Verpeaux. *Tetrahedron*, **47**, **1991**, 777-789. [Invited paper; Special Issue on Electrochemical Oxidation].
91. Non-Linear Optical Properties of Asymmetric Polyphenyls: Efficiency versus Transparency Trade-off. I. Ledoux, J. Zyss, A. Jutand, C. Amatore. *Chem. Phys.*, **150**, **1991**, 117-123.
92. Rates and Mechanism of the Reversible Oxidative Addition of Z and E 1,2-Dichloroethylene to Low-Ligated Zerovalent Palladium. C. Amatore, M. Azzabi, A. Jutand. *J. Am. Chem. Soc.*, **113**, **1991**, 1670-1677.
93. Digital Simulation via Hopscotch Algorithm of a Microelectrode Based Channel Flow-Through Amperometric Detector. P. Pastore, F. Magno, I. Lavagnini, C. Amatore. *J. Electroanal. Chem.*, **301**, **1991**, 1-13.
94. Mechanism of Nickel Catalyzed Electron Transfer Activation of Aromatic Halides. Part I: Biphenyl Electrosynthesis from Bromobenzene. C. Amatore, A. Jutand, L. Mottier. *J. Electroanal. Chem.*, **306**, **1991**, 125-140.
95. Mechanism of Nickel Catalyzed Electron Transfer Activation of Aromatic Halides. Part II: Electrocarboxylation of Bromobenzene. C. Amatore, A. Jutand. *J. Electroanal. Chem.*, **306**, **1991**, 141-156.
96. Electron-Transfer Kinetics and Ternary Equilibria of the $\text{NO}_2^+/\text{NO}_2/\text{N}_2\text{O}_4$ System by Transient Electrochemistry. K.Y. Lee, C. Amatore, J.K. Kochi. *J. Phys. Chem.*, **95**, **1991**, 1285-1294 (Additif: *J. Phys. Chem.*, **95**, **1991**, 4172).
97. The use of Conformal Maps to Model the Voltammetric Response of Collector-Generator Double-Band Electrodes. B. Fosset, C.A. Amatore, J.E. Bartelt, A.C. Michael, R.M. Wightman. *Anal. Chem.*, **63**, **1991**, 306-314.
98. Synthesis of Perfluoroalkyl Carboxylic Acids by Reaction of Perfluoroalkyl Iodides with Electrogenerated Superoxide Ion. C. Dapremont-Avignon, P. Calas, C. Amatore, A. Commeyras. *J. Fluorine Chem.*, **51**, **1991**, 357-379.
99. Electrochemical Study of 6-unit Chains Containing Thiophène and Phospholyl Rings. An Evaluation of Electronic Delocalization Along the Chain. M.-O. Bévierre, A. Jutand, F. Mercier, F. Mathey, C. Amatore. *New J. Chem.*, **15**, **1991**, 545-550.
100. Activation of Carbon Dioxide by Electron Transfer and Transition Metals. Mechanism of Nickel Catalyzed Electrocarboxylation of Aromatic Halides. C. Amatore, A. Jutand. *J. Am. Chem. Soc.*, **113**, **1991**, 2819-2825.
101. Theory and Experiment for the Collector-Generator Triple Band Electrode. B. Fosset, C. Amatore, J. Bartelt, R.M. Wightman. *Anal. Chem.*, **63**, **1991**, 1403-1408.
102. Voltammetry of Ferrocene In Low Electrolyte Solutions. S.M. Drew, R.M. Wightman, C.A. Amatore. *J. Electroanal. Chem.*, **317**, **1991**, 117-124.

103. Rôle and Effects of Halide Ions on the Rates and Mechanisms of Oxidative Addition of Iodobenzene to Low-Ligated Zerovalent Palladium Complexes "Pd⁰(PPh₃)₂". C. Amatore, M. Azzabi, A. Jutand. *J. Am. Chem. Soc.*, **113**, **1991**, 8375-8384.
104. Performances of a Numerical Method Based on the Hopscotch Algorithm and on an Oblate Spheroidal Space Coordinate - Expanding Time Grid for Simulation of Voltammetric Curves at an Inlaid Disk Microelectrode. I. Lavagnini, P. Pastore, F. Magno, C. Amatore. *J. Electroanal. Chem.*, **316**, **1991**, 37-47.
105. Fast Techniques in Direct Electrochemistry at Ultramicroelectrodes: An Easy Access to Kinetics in the Nanosecond Time-Scale. C. Amatore, C. Lefrou. *Port. Electrochim. Acta.*, **9**, **1991**, 311-328. [Invited paper].
106. New Concept of a Potentiostat for On-line Ohmic Drop Compensation in Cyclic Voltammetry Above Three Hundred Kilovolts *per* Second. C. Amatore, C. Lefrou. *J. Electroanal. Chem.*, **324**, **1992**, 33-58.
107. Standard Oxidation Potentials of Methylbenzenes in Acetonitrile. C. Amatore, C. Lefrou. *J. Electroanal. Chem.*, **325**, **1992**, 239-246.
108. Radical Chain Addition of Iodo-Perfluoroalkanes to Ethylenic or Acetylenic Substrates. Comparison of Rates of Iodine Atom Transfer from C₄F₉I to σ -Vinyl and σ -Alkyl α -F-Alkyl Radicals. C. Dapremont, P. Calas, A. Commeyras, C. Amatore. *J. Fluorine Chem.*, **56**, **1992**, 249-258.
109. Measurements of Quadratic Hyperpolarisabilities of Unsymmetrical Donor-Acceptor Bi- and Polyaryls. Effects of Size and Torsion Angle of Aryl Units. C. Puccetti, I. Ledoux, J. Zyss, A. Jutand, C. Amatore. *Chem. Phys.*, **160**, **1992**, 467-475.
110. Electrosynthesis of Unsymmetrical Donor-Acceptor Polyaryls. P. Boy, C. Combellas, A. Thiébault, C. Amatore, A. Jutand. *Tetrahedron Lett.*, **33**, **1992**, 491-494.
111. Space Variables Well Fitted for the Study of Steady-State and Near-Steady-State Diffusion at a Microdisk. C. Amatore, B. Fosset. *J. Electroanal. Chem.*, **328**, **1992**, 21-32.
112. Structural and Electrochemical Study of a 2,2'-Biphosphine. P. Le Floch, D. Carmichael, L. Ricard, F. Mathey, A. Jutand, C. Amatore. *Organometallics*, **11**, **1992**, 2475-2479.
113. Evidences for the Formation of Zerovalent Palladium from Pd(OAc)₂ and Triphenylphosphine. C. Amatore, A. Jutand, M. A. M'Barki. *Organometallics*, **11**, **1992**, 3009-3013.
114. Carbon Dioxide as a C₁-Building Block. Mechanism of Palladium-Catalyzed Carboxylation of Aromatic Halides. C. Amatore, A. Jutand, F. Khalil, M.F. Nielsen. *J. Am. Chem. Soc.*, **114**, **1992**, 7076-7085.
115. Electrochemically Induced Dehydrogenation of the Hydride Complexes [ReClH(NCR)(PPh₂CH₂CH₂PPh₂)₂][BF₄]. A Mechanistic Study. C. Amatore, J.J.R. Frausto Da Silva, M.F.C. Guedes Da Silva, A.J.L. Pombeiro, J.N. Verpeaux. *J. Chem. Soc., Chem. Commun.*, **1992**, 1289-1291.
116. Electrooxidative Initiation of Tin Hydride-Promoted Radical Chain Reactions. H. Tanaka, H. Suga, H. Ogawa, A.K.M. Abdul Hai, S. Torii, A. Jutand, C. Amatore. *Tetrahedron Lett.*, **33**, **1992**, 6495-6498.
117. Transition Metal Derivatives of the Cyclopentadienyl Phosphine Ligands. VII. Electrochemical Oxidation of [Rh(μ -CpPPh₂)(CO)]₂ and Rereduction: An ECE Process Including a Fast Reversible Configurational Switch. J.B. Tommasino, D. de Montauzon, X. He, A. Maisonnat, R. Poilblanc, J.N. Verpeaux, C. Amatore. *Organometallics.*, **11**, **1992**, 4150-4156.
118. Analysis of Diffusional Broadening of Vesicular Packets of Catecholamines Release from Biological Cells During Exocytosis. T.J. Schroeder, J.A. Jankowski, K.T. Kawagoe, R.M. Wightman, C. Lefrou, C. Amatore. *Anal. Chem.*, **64**, **1992**, 3077-3083.
119. Electrosyntheses of Disaccharides from Phenyl or Ethyl S-Glycosides. J.-M. Mallet, G. Meyer, F. Yvelin, A. Jutand, C. Amatore, P. Sinäy. *Carbohydr. Res.*, **244**, **1993**, 237-246.
120. Intramolecular Charge Transfer Properties in the Excited State of *para*-Disubstituted Biaryls. F. Lhamani, E. Breheret, A. Zehnacker-Rentien, C. Amatore, A. Jutand. *J. Photochem. Photobiol A: Chem.*, **70**, **1993**, 39-49.
121. Evidences for the Generation of α -Alkoxy and α -Alkylthioalkyl Radicals upon Reduction of α -Functionalized Alkyl Phenyl Sulfones. Investigation of the Reduction Mechanism by Electrochemistry. C. Amatore, M. Bayachou, F. Boutejengout, J.-N. Verpeaux. *Bull. Soc. Chim. Fr.*, **130**, **1993**, 371-381. [Invited paper; Special Issue in Honor of Marc Julia].
122. Theory of Electrochemical Luminescence at Double Band Electrodes. An Examination of "Steady State" Diffusion at Ultramicroelectrodes. C. Amatore, B. Fosset, K.M. Maness, R.M. Wightman. *Anal. Chem.*, **65**, **1993**, 2311-2316.
123. Rates and Mechanisms of Oxidative Addition to Zerovalent Palladium Complexes Generated *in situ* from Mixtures of Pd⁰(*dba*)₂ and Triphenylphosphine. C. Amatore, A. Jutand, F. Khalil, M.A. M'Barki, L. Mottier. *Organometallics*, **12**, **1993**, 3168-3178.

124. Intimate Mechanism of Oxidative Addition to Zerovalent Palladium Complexes in the Presence of Halide Ions and on its Relevance to the Mechanism of Palladium Catalyzed Nucleophilic Substitutions. C. Amatore, A. Jutand, A. Suarez. *J. Am. Chem. Soc.*, **115**, **1993**, 9531-9541.
125. Preparative Scale Synthesis of α -Glycosides and of a Disaccharide by Electrochemical Oxidation of Phenyl β -Glycosides. C. Amatore, A. Jutand, G. Meyer, P. Bourhis, F. Machetto, J.-M. Mallet, P. Sinay, C. Tabeur, Y.-M. Zhang. *J. Appl. Electrochem.*, **24**, **1994**, 725-729.
126. Disproportionation during Electro-Oxidation of Catecholamines at Carbon-Fiber Microelectrodes. E. L. Ciolkowski, K. M. Maness, P. S. Cahill, R. M. Wightman, D. H. Evans, B. Fosset, C. Amatore. *Anal. Chem.*, **66**, **1994**, 3611-3617.
127. Rates and Mechanism of Oxidative Two-Electron-Transfer-Induced *cis*- to *trans*-Isomerization of the Nitrile Complex [ReCl(NCC₆H₄Me-4)(Ph₂PCH₂CH₂PPh₂)₂]. M.F. Guedes da Silva, J.J.R. Frausto da Silva, A.J.L. Pombeiro, C. Amatore, J.-N. Verpeaux. *Organometallics*, **13**, **1994**, 3943-3951.
128. Reduction-Promoted Sulfur-Oxygen Bond Cleavage in a Nickel Sulfenate as a Model for the Activation of [Ni-Fe] Hydrogenase. P.J. Farmer, J.-N. Verpeaux, C. Amatore, M.Y. Darensbourg, G. Musie. *J. Am. Chem. Soc.*, **116**, **1994**, 9355-9356.
129. Rate and Mechanism of the Reduction of Iron Pentacarbonyl and Chromium Hexacarbonyl into their Metallate Complexes. C. Amatore, P. J. Krusic, S. U. Pedersen, J.-N. Verpeaux. *Organometallics*, **14**, **1995**, 640-649.
130. The Use of 2,2'-Biphosphinines for the Stabilization of Reduced Transition Metal Species: Electrochemical Reduction of Bis(2,2'-biphosphinine)nickel(0). P. Le Floch, L. Ricard, F. Mathey, A. Jutand, C. Amatore. *Inorg. Chem.*, **34**, **1995**, 11-12.
131. Is Selective Monosubstitution of Dihalides *via* S_{RN}1 Reaction Feasible? An Electrochemical Approach for Dichloroarenes. C. Amatore, C. Combellas, N.-E. Lebbar, A. Thiébault, J.-N. Verpeaux. *J. Org. Chem.*, **60**, **1995**, 18-26.
132. Rates and Mechanism of the Formation of Zerovalent Palladium Complexes from Mixtures of Pd(OAc)₂ and Tertiary Phosphines and Their Reactivity in Oxidative Additions. C. Amatore, E. Carré, A. Jutand, A. M'Barki. *Organometallics*, **14**, **1995**, 1818-1826.
133. Electrochemical Carbonylation of Organoironmethyl Complex. A study of Reaction Intermediates. C. Amatore, M. Bayachou, J.-N. Verpeaux, L. Pospíšil, J. Fiedler. *J. Electroanal Chem.*, **387**, **1995**, 101-108.
134. Selective Tuning of the Affinity of Palladium Centered Complexes for Dioxygen by Two-Electron Transfer Steps. Application to the Chemical Separation of Dioxygen from Gaseous Mixtures. C. Amatore, S. Aziz, A. Jutand, G. Meyer, P. Cocolios. *New J. Chem.*, **19**, **1995**, 1047-1059.
135. New Synthetic Applications of Water Acetate Pd / TPPTS Catalyst Generated *in Situ*. Evidences for a True Pd(0) Intermediate. C. Amatore, E. Blart, J.-P. Genêt, A. Jutand, S. Lemaire-Audoire, M. Savignac. *J. Org. Chem.*, **60**, **1995**, 6829-6839.
136. Migrational Effects on Second Waves of 'EE' Mechanisms under Steady State or *Quasi*-Steady State Regimes. C. Amatore, F. Bento, I. Montenegro. *Anal. Chem.*, **67**, **1995**, 2800-2811.
137. Detection of Oxidative Stress Responses at the Level of a Single Human Fibroblast. S. Arbault, P. Pantano, J.A. Jankowski, M. Vuillaume, C. Amatore. *Anal. Chem.*, **67**, **1995**, 3382-3390.
138. Radical Tandem Cyclizations by Anodic Decarboxylation of Carboxylic Acids. A. Matzeit, C. Amatore, H.J. Schäfer. *Synthesis*, **1995**, 1432-1444. [Invited *Feature Article*].
139. Effects of Substituents on the Competition Among Several Mechanisms of Nucleophilic Vinylic Substitution. C. Amatore, C. Galli, P. Gentili, A. Guarnieri, E. Schottland, Z. Rappoport. *J. Chem. Soc., Perkin Trans. 2*, **1995**, 2341-2350.
140. The Early Intracellular Production of a Reactive Oxygen Intermediate Mediates Apoptosis in Dexamethasone Treated Thymocytes. J.F. Torres-Roca, H. Lecoœur, C. Amatore, M.L. Gougeon. *Cell Death and Differentiation*, **2**, **1995**, 309-319.
141. Evidence for the Ligation of Palladium(0) Complexes by Acetate Ions. Consequences on the Mechanism of their Oxidative Addition with Phenyl Iodide. PhPd(OAc)(PPh₃)₂ as Intermediate in the Heck Reaction. C. Amatore, E. Carré, A. Jutand, M.A. M'Barki, G. Meyer. *Organometallics*, **14**, **1995**, 5605-5614.
142. Temporally Resolved, Independent Stages of Individual Exocytotic Secretion Events. T.J. Schroeder, R. Borges, K. Pihel, C. Amatore, R.M. Wightman. *Biophys. J.*, **70**, **1996**, 1061-1068.
143. Paired Electrosynthesis at the Femtoliter Scale: Formation of 9,10-Anthracenedione From the Oxidation of Anthracene and Reduction of Dioxygen. C. Amatore, A. Brown. *J. Am. Chem. Soc.*, **118**, **1996**, 1482-1486.

144. Reactivity of the Electrogenerated Superoxide $O_2^{\cdot -}$ Anion with α - ω -diiodoperfluorobutane. Synthesis of 4-iodo Perfluorobutanoic Acid. C. Dapremont-Avignon, P. Calas, C. Amatore, S. Bénédicte-Malouet, A. Commeyras. *J. Fluorine Chem.*, **77**, **1996**, 21-26.
145. Oxidative Addition of Aryl Halides to Transient Anionic σ -Aryl-Palladium(0) Intermediates. Application to Palladium Catalyzed Reductive Coupling of Aryl Halides. C. Amatore, E. Carré, A. Jutand, H. Tanaka, Q. Ren, S. Torii. *Chem. Eur. J.*, **2**, **1996**, 957-966.
146. Chemical and Electrochemical Asymmetric Dihydroxylation of Olefins in I_2 - K_2CO_3 - $K_2OsO_2(OH)_4$ and I_2 - K_3PO_4 - $K_2OsO_2(OH)_4$ Systems with Sharpless' Ligand. S. Torii, P. Liu, N. Bhuvanewari, C. Amatore, A. Jutand. *J. Org. Chem.*, **61**, **1996**, 3055-3060.
147. Formation of Zerovalent Palladium from the Cationic Complex $Pd(PPh_3)_2(BF_4)_2$ in the Presence of PPh_3 and Water in DMF. C. Amatore, A. Jutand, M.J. Medeiros. *New J. Chem.*, **20**, **1996**, 1143-1148.
148. Synthesis, Structure, Reactivity and Electrochemical Study of a (2,2'-Biphosphine)(η^5 - C_5Me_5)-Chloro-Ruthenium(II) Complex. P. Le Floch, S. Mansuy, L. Ricard, F. Mathey, A. Jutand, C. Amatore. *Organometallics*, **15**, **1996**, 3267-3274.
149. Mechanistic and Synthetic Aspects of a Novel Route to Poly-*p*-xylylene (PPX) via Nickel Complex Catalyzed Electropolymerisation of 1,4-bis(chloromethyl)benzene. C. Amatore, F. Gaubert, A. Jutand, J.H.P. Uteley. *J. Chem. Soc., Perkins Trans. 2*, **1996**, 2447-2452.
150. Evidence for a Michaelis-Menten Type Mechanism in the Electrocatalytic Oxidation of Mercaptopropionic Acid by an Amavadin Model. M.F.C. Guedes da Silva, J.A.L. da Silva, J.R.F. da Silva, A.J.L. Pombeiro, C. Amatore, J.-N. Verpeaux. *J. Am. Chem. Soc.*, **118**, **1996**, 7568-7573.
151. Interdigitated Electrode as an Alternative to the Rotated Ring Disk Electrode for Determination of the Reaction Products of Dioxygen Reduction. T.A. Postlethwaite, J.E. Hutchison, R. Murray, B. Fosset, C. Amatore. *Anal. Chem.*, **68**, **1996**, 2951-2958.
152. Ultramicroelectrodes: Their Basic Properties and their Use in Semi-Artificial Synapses. C. Amatore. *C.R. Acad. Sci. Paris, Ser. II b*, **323**, **1996**, 757-771. [Invited paper].
153. Equivalence Between Electrodes of Different Shapes: Between Myth and Reality? C. Amatore, B. Fosset. *Anal. Chem.*, **68**, **1996**, 4377-4388.
154. Electrogeneration of Triphenyltin Radical, Anion and Cation. Electrochemical Initiation of Tin Hydride-Promoted Radical Chain Reactions. H. Tanaka, H. Ogawa, H. Suga, S. Torii, A. Jutand, S. Aziz, A.G. Suarez, C. Amatore. *J. Org. Chem.*, **61**, **1996**, 9402-9408.
155. Direct vs. Indirect Routes in the Activation of Arylpalladium Complexes by Electron Transfer. C. Amatore, E. Carré, A. Jutand, H. Tanaka, S. Torii, I. Chiarotto, I. Carelli. *Electrochim. Acta.*, **42**, **1997**, 2143-2152 [Invited paper].
156. Mechanism of the Electrochemical Oxidation of Zerovalent Palladium Complexes. C. Amatore, A. Jutand, M. J. Medeiros, L. Mottier. *J. Electroanal. Chem.*, **422**, **1997**, 125-132.
157. Activation of the NADPH Oxidase in Human Fibroblasts by Mechanical Intrusion with an Ultramicroelectrode. S. Arbault, P. Pantano, N. Sojic, C. Amatore, M. Best-Belpomme, A. Sarasin, M. Vuillaume. *Carcinogenesis*, **18**, **1997**, 569-574.
158. Structural Effects in the Reductive Activation of Indenyl-RhL₂ Complexes: The Reduction of $Rh(\eta^5-C_9H_7)(\eta^4-COD)$. C. Amatore, A. Ceccon, S. Santi, J.-N. Verpeaux. *Chem. Eur. J.*, **3**, **1997**, 279-285.
159. Divalent Palladium and Platinum Complexes Containing Rigid Bidentate Nitrogen Ligands and Electrochemistry of the Palladium Complexes. R. van Asselt, C.J. Elsevier, C. Amatore, A. Jutand. *Organometallics*, **16**, **1997**, 317-328.
160. Phenylarsine Oxide Inhibits *ex vivo* HIV-1 Expression. S. Arbault, M. Edeas, S. Legrand-Poëls, N. Sojic, C. Amatore, J. Piette, M. Best-Belpomme, A. Lindenbaum, M. Vuillaume. *Biomed. Pharmacother., AIDS Sc. Sec.*, **51**, **1997**, 430-438.
161. Identification of the Effective Palladium(0) Catalytic Species Generated *in situ* from Mixtures of $Pd(dba)_2$ and Bidentate Phosphine Ligands. Determination of Their Rates and Mechanism in Oxidative Addition. C. Amatore, G. Broeker, F. Kalhil, A. Jutand. *J. Am. Chem. Soc.*, **119**, **1997**, 5176-5185.
162. Mechanistic Investigation of the Oxidation of *p*-Anisidine in Unbuffered DMF Using Fast Scan Rates at Ultramicroelectrodes. P. Simon, G. Farsang, C. Amatore. *J. Electroanal. Chem.*, **435**, **1997**, 165-171.
163. Electrochemical Behaviour of Platinum(II) Complexes with Ligating Unsaturated Carbon Species. F.S.C.L. Conde, C.M. Ferreira, M.F. Guedes da Silva, A.J.L. Pombeiro, R.A. Michelin, C. Amatore. *Port. Electrochim. Acta*, **15**, **1997**, 263-268.

164. Successive Electron-Transfers In Low Ionic Strength Solutions. Migrational Flux Coupling by Homogeneous Electron-Transfer Reactions. C. Amatore, S.C. Paulson, H.S. White. *J. Electroanal. Chem.*, **439**, **1997**, 173-182. [Invited paper; Special Issue in Honor of Keith Oldham].
165. Electrochemical and IR/UV-vis SpectroElectrochemical Studies of *fac*-[Mn(X)(CO)₃(*i*Pr-DAB)]ⁿ (n = 0, X = Br⁻, Me, Bz; n = +1, X = THF, MeCN, *n*PrCN, P(OMe)₃) at Variable Temperatures: Relation Between Electrochemical and Photochemical Generation of [Mn(CO)₃(α -diimine)]. B.D.Rossenaar, F. Hartl, D.J. Stufkens, C. Amatore, E. Maisonhaute, J.N. Verpeaux. *Organometallics*, **16**, **1997**, 4675-4685.
166. SpectroElectrochemical (UV-vis, IR, NMR and EPR) Study of the Inorganometallic Complex Ru(E)(E')(CO)₂(*i*Pr-DAB) (E = Cl⁻, E' = SnPh₃, PbPh₃; E = SnPh₃, E' = Me, SnPh₃, GePh₃; E = E' = PbPh₃). M.P. Aarnts, F. Hartl, D.J. Stufkens, C. Amatore, J.N. Verpeaux. *Organometallics*, **16**, **1997**, 4686-4695.
167. Synthesis of Terminal-Biradical Compounds Consisting of Two *N*-Oxyl Groups Connected with Conjugated π -Systems. S. Torii, T. Hase, M. Kuroboshi, C. Amatore, A. Jutand, H. Kawafuchi. *Tet. Lett.*, **38**, **1997**, 7391-7394.
168. Evidences for an Equilibrium Between Neutral and Cationic ArylPalladium(II) Complexes in DMF. Mechanism of the Reduction of Cationic ArylPalladium(II) Complexes. C. Amatore, E. Carré, A. Jutand. *Acta Chem. Scand.*, **52**, **1998**, 100-106. [Invited paper].
169. About Potential Measurements in Steady State Voltammetry at Low Electrolyte / Analyte Ratios. M.F. Bento, L. Thouin, C. Amatore, I. Montenegro. *J. Electroanal. Chem.*, **443**, **1998**, 137-148.
170. Unexpected Bell Shaped Effect of the Ligand on the Rate of Oxidative Addition to Palladium(0) Complexes Generated *in situ* from Mixtures of Pd(*dba*)₂ and *para*-Substituted TriarylPhosphines. C. Amatore, A. Jutand, G. Meyer. *Inorg. Chim. Acta*, **273**, **1998**, 76-84. [Invited paper].
171. Potential Measurements in Steady State Voltammetry at Low Electrolyte / Analyte Concentration Ratios. Role of Convection on Ohmic Drop: A simplified Model. M.F. Bento, L. Thouin, C. Amatore. *J. Electroanal. Chem.*, **446**, **1998**, 91-105.
172. Dynamics of the Electrochemical Behaviour of Diimine Tricarbonyl Rhenium(I) Complexes in Strictly Aprotic Media. F. Paolucci, M. Marcaccio, C. Paradisi, S. Roffia, C.A. Bignozzi, C. Amatore. *J. Phys. Chem., B*, **102**, **1998**, 4759-4769.
173. Cyclovoltammetric Studies on the Reaction of Dihydridotetrakis(triphenylphosphane)ruthenium(II) with Methyl Acrylate. CH-Activation of Methyl Acrylate in the Presence of Ru(0)(MA)₂(PPh₃)₂. C. Strehblow, R. Sustmann, C. Amatore. *J. Organomet. Chem.*, **561**, **1998**, 175-179.
174. Electron Transfer Catalysis of the Hydrogenolysis of Cyclopentadienyl Dicarboxyl Acyl Iron Complexes by Tributyltin Hydride. C. Amatore, M. Bayachou, O. Buriez, J.N. Verpeaux. *J. Organomet. Chem.*, **567**, **1998**, 25-29.
175. Electron Transfer Induced Geometrical Isomerization of the Dinitrile Complexes *cis*-[Re(NCR)₂(Ph₂PCH₂CH₂PPh₂)₂][BF₄] (R = Aryl or Alkyl): Rates, Mechanism and Ligand Effects. M.F. Guedes da Silva, J.J.R. Frausto da Silva, A.J.L. Pombeiro, C. Amatore, J.N. Verpeaux. *Inorg. Chem.*, **37**, **1998**, 2344-2350.
176. Dichloro(1,4,8,11-tetraazacyclotetradecane)Manganese(III) Chloride *Cis-Trans* Isomerisation Evidence by Infrared and Electrochemical Studies. F. Létumier, G. Broeker, J.M. Barbe, R. Guillard, D. Lucas, V. Dahaoui-Gindrey, C. Lecomte, L. Thouin, C. Amatore. *J. Chem. Soc., Dalton Trans.*, **1998**, 2233-2239.
177. Mimicking Neuronal Synaptic Behavior: Processing of Information with 'AND' or 'OR' Boolean Logic via Paired-Band Microelectrodes Assemblies. C. Amatore, A.R. Brown, L.Thouin, J.-S. Warkocz. *C.R. Acad. Sci. Paris, Ser. IIC.*, **1**, **1998**, 509-515.
178. Role of *dba* in the Reactivity of Palladium(0) Complexes Generated *in situ* from Mixtures of Pd(*dba*)₂ and Phosphines. C. Amatore, A. Jutand. *Coord. Chem. Rev.*, **178-180**, **1998**, 511-528. [Invited paper; Special Issue in Honor of French Inorganic Chemistry]
179. Comparative Reactivity of Palladium(0) Complexes Generated *in situ* in Mixtures of Triphenylphosphine or Tri-2-furylphosphine with Pd(*dba*)₂. C. Amatore, A. Jutand, G. Meyer, H. Atmani, F. Khalil, F. Ouazzani Chaahdi. *Organometallics.*, **17**, **1998**, 2958-2964.
180. Fundamental Principles of Electrochemical Ohmic Heating of Solutions. C. Amatore, M. Berthou, S. Hébert. *J. Electroanal. Chem.*, **457**, **1998**, 191-203.
181. Evidences of the Reversible Formation of Cationic π -Allylpalladium(II) Complexes in the Oxidative Addition of Allylic Acetates to Palladium(0) Complexes. C. Amatore, A. Jutand, G. Meyer, L. Mottier. *Chem. Eur. J.*, **5**, **1999**, 466-473.

182. Artificial Neurons with Logical Properties Based on Paired-Band Microelectrodes Assemblies. C. Amatore, L. Thouin, J.-S. Warkocz. *Chem. Eur. J.*, **5**, **1999**, 456-465.
183. Amplification of the Inflammatory Cellular Redox State by HIV-1-Immunosuppressive TAT and GP₁₆₀ Proteins. A. Lachgar, N. Sojic, S. Arbault, D. Bruce, A. Sarasin, C. Amatore, B. Bizzini, D. Zagury, M. Vuillaume. *J. Virology*, **73**, **1999**, 1447-1452.
184. Voltammetric Investigation of the Anodic Dimerization of *p*-halogeno-anilines in DMF. Reactivity of their Electrogenerated Cation Radicals. C. Amatore, G. Farsang, E. Maisonhaute, P. Simon. *J. Electroanal. Chem.*, **462**, **1999**, 55-62.
185. Steady State Voltammetry at Low Electrolyte / Substrate Concentration Ratios : What it Means and What it Does Not Mean. C. Amatore, L. Thouin, M.F. Bento. *J. Electroanal. Chem.*, **463**, **1999**, 45-52.
186. Mechanistic and Kinetic Studies of Palladium Catalytic Systems. C. Amatore, A. Jutand. *J. Organomet. Chem.*, **576**, **1999**, 254-278. [Invited paper; Special Issue in Honor of Profs. Tsuji and Heck].
187. Mechanistic Investigation of the Anodic Oxidation of *p*-Methoxytoluene in Dry and Wet acetonitrile. A.H. Said, F.M. M'Halla, C. Amatore, J.-N. Verpeaux. *J. Electroanal. Chem.*, **464**, **1999**, 85-92.
188. Time Resolved Dynamics of the Vesicle Membrane During Individual Exocytotic Secretion Events as Extracted from Amperometric Monitoring of Adrenaline Exocytosis by Chromaffin Cells. C. Amatore, Y. Bouret, L. Midrier. *Chem. Eur. J.*, **5**, **1999**, 2151-2162.
189. Formation of Anionic PdX₃(PPh₃)⁻ Complexes from Reaction of Halide Ions with PdX₂(PPh₃)₂. C. Amatore, A. Jutand, L. Mottier. *Eur. J. Inorg. Chem.*, **1999**, 1081-1085.
190. Electrosynthesis of Aromatic Aldehydes *via* Palladium Catalyzed Carbonylation of Aryl Iodides in the Presence of Formic Acid. I. Carelli, I. Chiarotto, S. Cacchi, P. Pace, C. Amatore, A. Jutand, G. Meyer. *Eur. J. Org. Chem.*, **1999**, 1471-1473.
191. Reactivity of Transient 17 and 19 electron Nickel (I) Centred Radicals : CpNi(PR₃) and CpNi(PR₃)₂. Redox Properties and Formation of the Zerovalent Anionic Nickelate CpNi(PPh₃)⁻. C. Amatore, O. Buriez, J.-N. Verpeaux. *Acta Chem. Scand.*, **53**, **1999**, 920-927. [Invited paper; Special Issue in Honor of Henning Lund].
192. Structural Effects in the Reductive Activation of (Indenyl)RhL₂ Complexes : the Reduction of the *anti* and *syn* Isomers of Cr(CO)₃-Indenyl-Rh(cod). C. Amatore, A. Ceccon, S. Santi, J.-N. Verpeaux. *Chem. Eur. J.*, **5**, **1999**, 3357-3365.
193. Micrometrically Controlled Surface Modification of Teflon[®] by Redox Catalysis : Electrochemical Coupling Between Teflon[®] and a Gold Band Ultramicroelectrode. C. Amatore, C. Combellas, F. Kanoufi, C. Sella, A. Thiébault, L. Thouin. *Chem. Eur. J.*, **6**, **2000**, 820-835.
194. Ultrafast Cyclic Voltammetry : Performing in the few Megavolt per Second Range Without Ohmic Drop. C. Amatore, E. Maisonhaute, G. Simonneau. *Electrochem. Commun.*, **2**, **2000**, 81-84.
195. Anionic Pd(0) and Pd(II) Intermediates in Palladium-Catalyzed Heck and Cross-Coupling Reactions. C. Amatore, A. Jutand. *Acc. Chem. Res.*, **33**, **2000**, 314-321.
196. Oxidative Addition of Palladium(0) Complexes Generated from Pd(dba)₂ and P-N Ligands : Kinetic Investigation. C. Amatore, A. Fuxa, A. Jutand. *Chem. Eur. J.*, **6**, **2000**, 1474-1482.
197. Mapping Concentration Profiles Within the Diffusion layer of an Electrode. Part I: Confocal Resonance Raman Microscopy. C. Amatore, F. Bonhomme, J.-L. Bruneel, L. Servant, L. Thouin. *Electrochem. Commun.*, **2**, **2000**, 235-239.
198. Mapping Concentration Profiles within the Diffusion Layer of an Electrode. Part II: Potentiometric Measurements with an Ultramicroelectrode. C. Amatore, S. Szunerits, L. Thouin. *Electrochem. Commun.*, **2**, **2000**, 248-253.
199. Synthesis, Characterization, and X-Ray Crystal Structure of Cyclam Derivatives. Part III. Formation and Electrochemically Induced Isomerization of Copper Complexes of 1,8-bis(*N,N*-dimethyl carbamoylmethyl)-4,11-dimethyl-1,4,8,11-tetraazacyclotetradecane. C. Bucher, E. Duval, J.-M. Barbe, J.-N. Verpeaux, R. Guilard, C. Amatore. *C.R. Acad. Sci. Paris, Ser. IIc.*, **3**, **2000**, 211-222. [Invited paper; Special Issue in Honor of Yves Jeannin].
200. Mapping Dynamic Concentration Profiles with Micrometric Resolution Near an Active Microscopic Surface by Confocal Resonance Raman Microscopy. Application to Diffusion Near Ultramicroelectrodes: First Direct Evidence for a Conproportionation Reaction. C. Amatore, F. Bonhomme, J.-L. Bruneel, L. Servant, L. Thouin. *J. Electroanal. Chem.*, **484**, **2000**, 1-17. [Invited paper; Special Issue about *New Directions and Challenges in Modern Electrochemistry*].

201. Adrenaline Release by Chromaffin Cells: Constrained Swelling of Vesicle Matrix Leads to Full-Fusion. C. Amatore, Y. Bouret, E.R. Travis, R.M. Wightman. *Angew. Chem. Int. Ed.*, **39**, **2000**, 1952-1955. [*Angew. Chem.*, **112**, **2000**, 2028-2031]
202. Mapping Concentration Profiles within the Diffusion Layer of an Electrode. Part III: Steady State and Time Dependent Profiles via Amperometric Measurements with an Ultramicroelectrode Probe. C. Amatore, S. Szunerits, L. Thouin, J.S. Warkocz. *Electrochem. Commun.*, **2**, **2000**, 353-358.
203. Interplay Between Membrane Dynamics, Diffusion and Swelling Pressure Governs Individual Vesicular Exocytotic Events During Release of Adrenaline by Chromaffin Cells. C. Amatore, Y. Bouret, E.R. Travis, R.M. Wightman. *Biochim.*, **82**, **2000**, 481-496. [Invited paper; Special Issue on *Molecular and Cellular Aspects of Secretion*]
204. Oxidative Addition of Allylic Carbonates to Palladium(0) Complexes : Reversibility and Isomerization. C. Amatore, S. Gamez, A. Jutand, G. Meyer, M. Moreno-Mañas, L. Morral, R. Pleixats. *Chem. Eur. J.*, **6**, **2000**, 3372-3376.
205. Ohmic Drop Compensation in Cyclic Voltammetry at Scan Rates in the Megavolt per Second Range : Access to Nanometric Diffusion Layers via Transient Electrochemistry. C. Amatore, E. Maisonhaute, G. Simonneau. *J. Electroanal. Chem.*, **486**, **2000**, 141-155.
206. Cyclic Voltammetry Studies of Copper Complexes Catalyzing Atom Transfer Radical Polymerization. J. Qiu, K. Matyjaszewski, L. Thouin, C. Amatore. *Macromol. Chem. Phys.*, **201**, **2000**, 1625-1631.
207. Reversible Formation of a Cationic Palladium(II) Hydride [HPd(PPh₃)₂]⁺ in the Oxidative Addition of Palladium(0) to Acetic or Formic Acid in DMF. C. Amatore, A. Jutand, G. Meyer, I. Carelli, I. Chiarotto. *Eur. J. Inorg. Chem.*, **2000**, 1855-1859.
208. Nitrogen Monoxide and Oxidative Stress: Composition and Intensity of Cellular Oxidative Bursts Cocktail. A Study through Artificial Electrochemical Synapses on Single Human Fibroblasts. C. Amatore, S. Arbault, D. Bruce, P. de Oliveira, M. Erard, N. Sojic and M. Vuillaume. *Analisis Eur. J. Anal. Chem.*, **28**, **2000**, 506-517. [Invited paper; Special Issue about *Nitric Oxide and Superoxide in Biological Systems*].
209. Analysis of Individual Biochemical Events Based on Artificial Synapses using Ultramicroelectrodes: Cellular Oxidative Burst. C. Amatore, S. Arbault, D. Bruce, P. de Oliveira, M. Erard M. Vuillaume. *Faraday Discuss.*, **116**, **2000**, 319-303. [Invited paper; Special Issue *Faraday Discussion on Bioelectrochemistry*].
210. Mechanism of the Nickel-Catalyzed Electrosynthesis of Ketones by the Heterocoupling of Acyl Halides and Benzyl Halides. C. Amatore, A. Jutand, J. Perichon, Y. Rollin. *Monatshefte Chem.*, **131**, **2000**, 1293-1304. [Invited paper; Special Issue in Honor of Prof. Kirchner].
211. Microelectrodes. Definitions, Characterization, and Applications. K. Stulik, C. Amatore, K. Holub, V. Marecek, W. Kutner. *Pure Appl. Chem.*, **72**, **2000**, 1483-1492. [Invited paper by IUPAC].
212. The Real Meaning of Nernst's Steady Diffusion Layer Concept under Non-Forced Hydrodynamic Conditions. A simple Model Based on Levich's Seminal View of Convection. C. Amatore, S. Szunerits, L. Thouin, J.-S. Warkocz. *J. Electroanal. Chem.*, **500**, **2001**, 62-70 [Invited paper; Special Issue in Honor of Roger Parsons].
213. Rates and mechanism of the Reversible Formation of Cationic (η^3 -allyl)palladium Complexes in the Oxidative Addition of Allylic Acetate to Palladium(0) Ligated by Diphosphines. C. Amatore, S. Gamez, A. Jutand. *Chem. Eur. J.*, **7**, **2001**, 1273-1280.
214. Monitoring Concentration Profiles *in situ* with an Ultramicroelectrode Probe. C. Amatore, S. Szunerits, L. Thouin, J.-S. Warkocz. *Electroanalysis.*, **13**, **2001**, 646-652.
215. Ultrafast Voltammetry of Adsorbed Redox Active Dendrimers with Nanometric Resolution: An Electrochemical Microtome. C. Amatore, Y. Bouret, E. Maisonhaute, J.I. Goldsmith, and H.D. Abruña. *ChemPhysChem*, **2**, **2001**, 130-134.
216. Importance of the Presence of Chloride Ions in the First Steps of Palladium-Catalyzed Nucleophilic Allylic Substitutions. C. Amatore, A. Jutand, M.A. M'Barki, G. Meyer, L. Mottier. *Eur. J. Inorg. Chem.*, **2001**, 873-880.
217. Rate and Mechanism of the Reversible Formation of the Cationic (η^3 -Allyl)palladium Complex in the Oxidative Addition of Allylic Acetate to Palladium(0) Ligated by Diop: an Unusual Behavior. C. Amatore, S. Gamez, A. Jutand. *J. Organomet. Chem.*, **624**, **2001**, 217-222 [Invited paper; Special Issue in Honor of Jean Normant].
218. First Direct Synthesis of a *trans*-III Complex of Tetramethylcyclam: Physicochemical Characterization, Electrochemistry and X-ray Crystal Structure of 1,4,8,11-tetramethyl-1,4,8,11-Tetraazacyclotetradecane Copper(II) Bistetrafluoroborate. C. Bucher, E. Duval, E. Espinosa, J.-M. Barbe, J.-N. Verpeaux, C. Amatore, R. Guillard. *Eur. J. Inorg. Chem.*, **2001**, 1077-1079.

219. Precise Adjustment of Nanometric-Scale Diffusion Layers Within a Redox Dendrimer Molecule by Ultrafast Cyclic Voltammetry: an Electrochemical Nanometric Microtome. C. Amatore, Y. Bouret, E. Maisonhaute, J.I. Goldsmith, and H.D. Abruña. *Chem. Eur. J.*, **7**, **2001**, 2206-2226.
220. Photochemical Generation of Cyclopentadienyliron Dicarbonyl Anion by an NAD Dimer Analogue. S. Fukuzumi, K. Ohkubo, M. Fujitsuka, O. Ito, M.C. Teichmann, E. Maisonhaute, C. Amatore. *Inorg. Chem.*, **40**, **2001**, 1213-1219.
221. Rate and Mechanism of the Oxidative Addition of Phenyl Iodide to Pd⁰ Ligated by Triphenylarsine. Evidence for the Formation of a T-Shaped Complex [PhPdI(AsPPh₃)] and for a Decelerating Effect of CH₂=CH-SnBu₃ by formation of [Pd⁰(η²-CH₂=CH-SnBu₃)(AsPPh₃)₂]. C. Amatore, A. Bucaille, A. Fuxa, A. Jutand, G. Meyer, A. Ndedi Ntepe. *Chem. Eur. J.*, **2001**, 2134-2142.
222. Mapping Concentration Profiles within the Diffusion Layer of an Electrode. Application to Redox Catalysis. C. Amatore, C. Pebay, O. Scialdone, S. Szunerits, L. Thouin. *Chem. Eur. J.*, **7**, **2001**, 2933-2939.
223. Reactivity of palladium(0) complexes in the oxidative addition of allylic acetates. C. Amatore, S. Gamez, A. Jutand, G. Meyer, L. Mottier. *Electrochim. Acta*, **46**, **2001**, 3237-3244. [Invited paper].
224. Formation of Palladium(0) Complexes from Pd(OAc)₂ and a Bidentate Phosphine Ligand (dppp) and their Reactivity in Oxidative Addition. C. Amatore, A. Jutand, A. Thuilliez. *Organometallics*, **20**, **2001**, 3241-3249.
225. Diffusion at Double Microband Electrodes Operated within a Thin Film Coating. Theory and Experimental Illustration. I.A. Arkoub, C. Amatore, C. Sella, L. Thouin, J.-S. Warkocz. *J. Phys. Chem. B*, **105**, **2001**, 8694-8703. [Invited paper; Special Issue in Honor of Royce Murray].
226. Characterization of the Electrochemical Oxidation of Peroxynitrite in Relevance with Oxidative Stress Bursts Measured at the Single Cell Level. C. Amatore, S. Arbault, D. Bruce, P. de Oliveira, M. Erard, M. Vuillaume. *Chem. Eur. J.*, **7**, **2001**, 4171-4179.
227. Kinetics of the Oxidative Addition of Ortho-substituted Aryl Halides to Palladium(0) Complexes. M. Alami, C. Amatore, S. Bensalem, A. Choukchou-Brahim, A. Jutand. *Eur. J. Inorg. Chem.*, **2001**, 2675-2681.
228. Microelectrodes in Artificial Synapses: A study of Oxidative Stress at the Cellular Level. C. Amatore, S. Arbault, D. Bruce, P. de Oliveira, M. Erard, M. Vuillaume. *Port. Electrochim. Acta*, **19**, **2001**, 145-163. [Invited paper].
229. Synthesis, X-Ray Structure, Electrochemical, and EPR Studies of a Pentacoordinated Mn(II) Tetramethylcyclam Complex. C. Bucher, E. Duval, J.-M. Barbe, J.-N. Verpeaux, C. Amatore, R. Guilard, L. Le Pape, J.-M. Latour, S. Dahaoui, C. Lecomte. *Inorg. Chem.*, **40**, **2001**, 5722-5726.
230. Mise en Perspective des Progrès de la Chimie Analytique. C. Amatore, M.-C. Hennion. *CR Acad. Agric. Fr.*, **87**, **2001**, 29-40 [Invited paper].
231. Effect of the Leaving Group and of the Allylic Structure on the Kinetics and Thermodynamics of the Reaction of Allylic Carboxylates with Palladium(0) Complexes. N. Agenet, C. Amatore, S. Gamez, H. Gérardin, A. Jutand, G. Meyer, C. Orthwein. *Arkivoc*, **2002**, 92-101. [Invited paper; Special Issue in Honor of Moreno-Mañas].
232. Mechanism of the oxidation addition of Pd⁰ complexes generated from Pd⁰(dba)₂ and a phosphole ligand DBP: a special case where dba does not play any inhibiting role. C. Amatore, A. Jutand, A. Thuilliez. *J. Organomet. Chem.*, **643-644**, **2002**, 416-423. [Invited paper; Special Issue in Honor of François Mathey].
233. Oxidative Dimerization of Some Stabilized Carbanions: a Mechanistic Investigation. C. Amatore, H. Boukrissi, G. Farnia, F. Marcuzzi, G. Sandonà, J.-N. Verpeaux. *J. Electroanal. Chem.* **532**, **2002**, 319-329. [Invited paper; Special Issue in Honor of Sergio Trasatti].
234. Electrochemical Reduction of Dioxygen into Hydrogen Peroxide in the Presence of 4,6-dimethyl-2-thiopyrimidine. S. Peressini, C. Tavagnacco, G. Costa, C. Amatore. *J. Electroanal. Chem.*, **532**, **2002**, 295-302. [Invited paper; Special Issue in Honor of Sergio Trasatti].
235. Structure and Dynamics in Colloidal and Porous Charged Media. V. Marry, F. Grün, C. Simon, M. Jardat, P. Turq, C. Amatore. *J. Phys. Condens. Matter*, **14**, **2002**, 9207-9221.
236. Decelerating Effect of Alkenes in the Oxidative Addition of Phenyl Iodide to Palladium(0) Complexes in Heck Reaction. C. Amatore, E. Carré, A. Jutand, Y. Medjour. *Organometallics*, **21**, **2002**, 4540-4545.
237. Diffusional Cross-Talk Between Paired Microband Electrodes Operating Within a Thin Film: Theory for Redox Couples with Unequal Diffusion Coefficient. C. Amatore, C. Sella, L. Thouin. *J. Phys. Chem. B*, **106**, **2002**, 11565-11571.
238. Mechanistic investigation of the anodic oxidation of 3,4,5-trimethoxytoluene in acetonitrile. A.H. Said, F. Matoussi Mhalla, C. Amatore, L. Thouin, C. Pebay, J.-N. Verpeaux. *J. Electroanal. Chem.* **537**, **2002**, 39-46.

239. Synthesis and Investigation of New Macrocyclic Diphosphine-Palladium(0) Complexes Based on the Barbiturate Binding Receptor. H.S. Sorensen, J. Larsen, B.S. Rasmussen, B. Laursen, S.G. Hansen, T. Skydstrup, C. Amatore, A. Jutand. *Organometallics*, **21**, **2002**, 5243-5253.
240. Redox Activation of Dicarbonyl(η^5 -Cyclopentadienyl)Methyl Iron within the Cavity of β -Cyclodextrin: Carbon Monoxide Insertion in Iron-Methyl Bond. L. Pospisil, M. Hromadova, J. Fiedler, C. Amatore, J.-N. Verpeaux. *J. Organomet. Chem.*, **668**, **2003**, 9-16.
241. Dynamics of Full Fusion During Vesicular Exocytotic Events: Release of Adrenaline by Chromaffin Cells. C. Amatore, S. Arbault, I. Bonifas, Y. Bouret, M. Erard, M. Guille. *ChemPhysChem*, **4**, **2003**, 147-154.
242. Electrochemistry *Within* Molecules using Ultrafast Cyclic Voltammetry. C. Amatore, Y. Bouret, E. Maisonhaute, H.D. Abruna, J.I. Goldsmith. *C. R. Chim.*, **6**, **2003**, 99-115.
243. Mechanism of the Stille Reaction Catalyzed by Palladium Ligated to Arsine Ligand: Unsaturated PhPdI(AsPh₃)(DMF) is the Species Reacting with Vinylstannane in DMF. C. Amatore, A. Bahsoun, A. Jutand, G. Meyer, A. Ndedi Ntepe. *J. Am. Chem. Soc.*, **125**, **2003**, 4212-4222.
244. The problem of the Accuracy of Electrochemical Kinetic Parameters Determination for the ECE Reaction Mechanism. P. Sanecki, C. Amatore, P. Skital. *J. Electroanal. Chem.*, **546**, **2003**, 109-121.
245. Simulation of the Double Hemicylinder Generator-Collector Assembly through Conformal Mapping Technique. C. Amatore, A.I. Oleinick, I.B. Svir. *J. Electroanal. Chem.*, **553**, **2003**, 49-61.
246. Effect of Chemical Environment on Diffusivities within Thin Nafion Films as Monitored from Chronoamperometric Responses of Generator-Collector Double Microband Assemblies. C. Amatore, C. Sella, L. Thouin. *J. Electroanal. Chem.*, **547**, **2003**, 151-161.
247. Electron Transfer Induced Topological Reorganisations in Copper Complexes of *N*-tetrasubstituted tetraazamacrocycles. C. Amatore, J.-M. Barbe, C. Bucher, E. Duval, R. Guilard, J.-N. Verpeaux. *Inorg. Chem. Acta*. [Invited paper; Special Issue in Honor of Frausto Da Silva], **356**, **2003**, 267-278.
248. A New and Powerful Approach for Simulation of Diffusion at Microelectrodes Based on Overlapping Sub-Domains: Application to Chronoamperometry at the Microdisk. C. Amatore, I. Svir. *J. Electroanal. Chem.*, **557**, **2003**, 75-90.
249. Spatially Resolved Electrochemiluminescence on an Array of Electrode Tips: Visualization of the Development of Diffusion Layers with Time. S. Szunerits, J. Tam, L. Thouin, C. Amatore, D. Walt. *Anal. Chem.*, **75**, **2003**, 4382-4388.
250. Electrochemistry Within a Limited Number of Molecules: Delineating the Fringe Between Stochastic and Statistical Behavior. C. Amatore, F. Grün, E. Maisonhaute. *Angew. Chem. Int. Edn*, **42**, **2003**, 4944-4947. [*Angew. Chem.*, **42**, **2003**, 5094-5097].
251. Zeptomole Voltammetric Detection and Electron-Transfer Rate Measurements Using Platinum Electrodes of Nanometer Dimensions. J.J. Watkins, J. Chen, H.S. White, H.D. Abruña, E. Maisonhaute, C. Amatore. *Anal. Chem.*, **75**, **2003**, 3962-3971.
252. Theory of Transient and Steady-State ECL Generation at Double-Hemicylinder Assemblies Using Conformal Mapping and Simulations. C. Amatore, A. Oleinick, I. Svir. *Electrochem. Commun.*, **5**, **2003**, 989-994.
253. Simulation of the Double Hemicylinder Electrode System Through Conformal Mapping. Application to Steady-State Electrogenerated Chemiluminescence. A.I. Oleinick, C.A. Amatore, I.B. Svir. *Radioelectronica & Informatica*, **4**, **2003**, 35-38.
254. Simulation of Diffusion at Microring Electrodes Through Conformal Mapping. C. Amatore, A. Oleinick, I. Svir. *J. Electroanal. Chem.*, **564**, **2004**, 245-260. [Invited paper; Special Issue in Honor of Rolando Guidelli].
255. Decelerating Effect of Alkynes in the Oxidative Addition of Phenyl Iodide to Palladium(0) Complexes in Palladium-catalyzed Multicomponent reactions and Sonogashira Reactions. C. Amatore, S. Bensalem, S. Ghalem, A. Jutand, Y. Medjour. *Eur. J. Org. Chem.*, **2004**, 366-371.
256. Imaging Concentration Profiles at Microelectrodes with Nanometric Amperometric Probes: Effect of Natural Convection on Transport at Microdisk Electrodes. N. Baltes, L. Thouin, C. Amatore, J. Heinze. *Angew. Chem., Int. Ed.*, **43**, **2004**, 1431-1435 [*Angew. Chem.*, **116**, **2004**, 1455-1459].
257. The Effects of Vesicular Volume on Secretion through the Fusion Pore in Exocytotic Release from PC12 Cells. L.A. Sombers, H.J. Hanchar, T.L. Colliver, N. Wittenberg, A. Cans, S. Arbault, C. Amatore, A. G. Ewing. *J. Neurosciences*, **24**, **2004**, 303-309.
258. Oxidative Stress in Cancer-Prone Xeroderma Pigmentosum Fibroblasts. Real-Time and Single Cell Monitoring of Superoxide and Nitric Oxide Production with Microelectrodes. S. Arbault, N. Sojic, D. Bruce, C. Amatore, A. Sarasin, M. Vuillaume. *Carcinogenesis*, **25**, **2004**, 509-515.

259. Relaxation of the electrical double layer after an electron transfer approached by Brownian dynamics simulation. F. Grün, M. Jardat, P. Turq and C. Amatore. *J. Chem. Phys.*, **120**, **2004**, 9648-9655.
260. Efficient Quasi-Conformal Map for Simulation of Diffusion at Disk Microelectrodes. A. Oleinick, C. Amatore, I. Svir. *Electrochem. Commun.*, **6**, **2004**, 588-594.
261. Mechanism of the Palladium-Catalyzed Electrosynthesis of Diethyl Carbonate from Carbon Monoxide and Ethanol. C. Amatore, S. Bensalem, S. Ghalem, A. Jutand, D. Fenech, A. Gallia, G. Silvestri. *C. R. Acad. Sc. Chim.*, **7**, **2004**, 737-746. [Invited paper].
262. Active Anionic Zero-Valent Palladium Catalysts: Characterization by Density Functional Calculations. S. Kozuch, S. Shaik, A. Jutand, C. Amatore. *Chem. Eur. J.*, **10**, **2004**, 3072-3080.
263. Mechanism of the Carbopalladation of Alkynes by Aryl-palladium Complexes. C. Amatore, S. Bensalem, S. Ghalem, A. Jutand. *J. Organomet. Chem.*, **689**, **2004**, 4642-4646. [Invited paper; Special Anniversary Issue of *JOMC*]
264. Formation of anionic Palladium(0) complexes ligated by the trifluoroacetate ion and their reactivity in oxidative addition. C. Amatore, A. Jutand, F. Lemaître, J.-L. Ricard, S. Kozuch, S. Shaik. *J. Organomet. Chem.*, **689**, **2004**, 3728-3734. [Invited paper; Special Anniversary Issue of *JOMC*]
265. First Direct Experimental Evidence of Migration Contributions through Monitoring Concentration Profiles at Low Supporting Electrolyte Concentration. C. Amatore, K. Knobloch, L. Thouin. *Electrochem. Commun.*, **6**, **2004**, 887-891.
266. Using Electrochemical Coupling Between Parallel Microbands for in situ Monitoring of Flow Rates in Microfluidic Channels. C. Amatore, M. Belotti, Y. Chen, E. Roy, C. Sella, L. Thouin. *J. Electroanal. Chem.*, **573**, **2004**, 333-343.
267. Simulation of Diffusion-Convection Processes in Microfluidic Channels Equipped with Double Band Microelectrode Assemblies: Approach through Quasi-Conformal Mapping. C. Amatore, A. Oleinick, I. Svir. *Electrochem. Commun.*, **6**, **2004**, 1123-1130.
268. Diffusion within Nanometric and Micrometric Spherical-Type Domains Limited by Nanometric Ring or Pore Active Interfaces. Part 1. Conformal Mapping Approach. C. Amatore, A. Oleinick, I. Svir. *J. Electroanal. Chem.* **575**, **2005**, 103-123.
269. Remote Fluorescence Imaging of Dynamic Concentration Profiles with Micrometric Resolution using a Coherent Optical Fiber Bundle. C. Amatore, A. Chovin, P. Garrigue, L. Servant, N. Sojic, S. Szunerits, L. Thouin, *Anal. Chem.* **76**, **2004**, 7202-7210.
270. What Makes a Good Catalytic Cycle? A Theoretical Study of the Role of Anionic Pd(0) Complexes in the Cross-Coupling of Aryl Halides with Anionic Nucleophiles. S. Kozuch, C. Amatore, A. Jutand, S. Shaik. *Organometallics*, **24**, **2005**, 2319-2330.
271. Correlation Between Vesicle Quantal Size and Fusion Pore Release in Chromaffin Cell Exocytosis. C. Amatore, S. Arbault, I. Bonifas, Y. Bouret, M. Erard, A.G. Ewing, L.A. Sombers. *BioPhys. J.*, **88**, **2005**, 4411-4420.
272. In situ and on-line Monitoring of Hydrodynamic Flow Profiles in Microfluidic Channels Based upon Microelectrochemistry. Concept, Theory and Validation. C. Amatore, A. Oleinick, O.V. Klymenko, I. Svir. *ChemPhysChem.*, **6**, **2005**, 1581-1589.
273. Rate and mechanism of the reaction of PhCH=CH-CH(Ph)-OAc with Palladium(0) complexes in allylic substitutions. C. Amatore, A.A. Bahsoun, A. Jutand, L. Mensah, G. Meyer, L. Ricard. *Organometallics* **24**, **2005**, 1569-1577.
274. Electrochemistry of β -Lapachone and its Diazoderivative: Relevance to their Compared Antimicrobial Activities. F.C. de Abreu, D.C.M. Ferreira, J. Wadhawan, C. Amatore, V.F. Ferreira, M.N. da Silva, M.C.B.V. de Souza, T.S. Gomes, E.A. Ximenes, M.O. F. Goulart. *Electrochem. Commun.*, **7**, **2005**, 767-772.
275. When Voltammetry Reaches Nanoseconds. C. Amatore, E. Maisonhaute. *Anal. Chem.*, **77**, **2005**, 303A-311A. [Invited paper, A pages]
276. Simulation of Diffusion-Convection Processes in Microfluidic Channels. O.V. Klymenko, A.I. Oleinick, C. A. Amatore, I.B. Svir. *Radioelectronica & Informatica*, **1**, **2005**, 47-53.
277. Detection of Nitric Oxide Release During Neuronal Activity with Platinized Carbon Fiber Microelectrodes. C. Amatore, S. Arbault, Y. Bouret, B. Cauli, M. Guille, A. Rancillac, J. Rossier. *ChemPhysChem*, **7**, **2006**, 181-187.
278. Ferrocene-mediated Proton-coupled Electron Transfer in a Series of Ferrocifen-type Breast Cancer Drug Candidates. E. Hillard, A. Vessières, L. Thouin, G. Jaouen and C. Amatore. *Angew. Chem., Int. Edn.* **45**, **2006**, 285-290.

279. Effect of the Leaving Group on the Rate and Mechanism of the Palladium-Catalyzed Isomerization of Cyclic Allylic Benzoates in Allylic Substitutions. C. Amatore, A. Jutand, L. Mensah, G. Meyer, J.-C. Fiaud, J.-Y. Legros. *J. Org. Chem.*, **2006**, 1185-1192.
280. *In situ* and *on-line* Monitoring of Hydrodynamic Flow Profiles in Microfluidic Channels Based upon Microelectrochemistry. Optimisation of Electrode Locations. C. Amatore, O.V. Klymenko, I. Svir. *ChemPhysChem.*, **7**, **2006**, 482-487.
281. Monitoring the Release of Reactive Oxygen and Nitrogen Species by a Single Macrophage in Real-Time with a Microelectrode. C. Amatore, S. Arbault, C. Bouton, K. Coffi, J.-C. Drapier, H. Ghandour, Y. Tong. *ChemBioChem.*, **7**, **2006**, 653-661.
282. Modelling Release of Nitric Oxide in a Slice of Rat's Brain: Describing Stimulated Functional Hyperemia with Diffusion-Reaction Equations. A.I. Oleinick, C. Amatore, M. Guille, S. Arbault, O.V. Klymenko, I. Svir. *Math. Med. Biol.*, **23**, **2006**, 27-44.
283. The direct, *in Situ*, Measurement of The Flow Velocity Inside Microfluidic Devices Via Electrochemical Coupling Between Two Parallel Microband Electrodes. C. Amatore, Y. Chen, C. Sella, L. Thouin, *La Houille Blanche*, **2**, **2006**, 60-64.
284. Neutral Palladium(0) complexes from Pd(OAc)₂ and Tri-2-furylphosphine and their reactivity in oxidative addition with PhI. C. Amatore, A. Jutand, F. Khalil, *Arkivoc*, **2006**, 38-48. [Invited paper in Honor of Armand Lattes].
285. Mathematical models and numerical simulation of diffusion-reaction problems of brain-chemistry. A.I. Oleinick, C.A. Amatore, I.B. Svir. *Radioelek. Inform.*, **3**, **2005**, 18-22.
286. Mapping Electrochemiluminescence as Generated at Double-Band Microelectrodes by Confocal Microscopy under Steady State. C. Amatore, C. Pébay, L. Servant, N. Sojic, S. Szunerits, L. Thouin, *ChemPhysChem.*, **7**, **2006**, 1322-1327.
287. Calculation of ECL emission intensity measured using confocal microscope A.I. Oleinick, A.G. Drogozov, C.A. Amatore, I.B. Svir. *Radioelek. Inform.*, **3**, **2005**, 23-28.
288. Electrocarboxylation of Benzylhalides via Redox Catalysis at the Preparative Scale Level. O. Scialdone, A. Galia, G. Silvestri, C. Amatore, L. Thouin, J.-N. Verpeaux, *Chem. Eur. J.*, **12**, **2006**, 7433-7447.
289. Electrochemical Time-of-Flight Responses at Double-Band Generator-Collector Devices Under Pulsed Conditions. C. Amatore, C. Sella, L. Thouin, *J. Electroanal. Chem.*, **593**, **2006**, 194-202. [Invited paper in Honor of Petr Zuman].
290. Coupling of Electrochemistry and Fluorescence Microscopy at ITO Microelectrodes for Single Exocytotic Events Analysis. C. Amatore, S. Arbault, Y. Chen, C. Crozatier, F. Lemaître, Y. Verchier. *Angew. Chem. Int. Ed.*, **45**, **2006**, 4000-4003.
291. Mechanism of the Palladium-Catalyzed Homocoupling of Arylboronic Acids: Key Involvement of a Palladium Peroxo Complex. C. Adamo, C. Amatore, I. Ciofini, A. Jutand, H. Lakmini. *J. Am. Chem. Soc.*, **128**, **2006**, 6829-6836.
292. Glutamatergic Control of Microvascular Tone by Distinct GABA Neurons in the Cerebellum. A. Rancillac, M. Guille, X.-K. Tong, H. Geoffroy, E. Hamel, C. Amatore, S. Arbault, J. Rossier, B. Cauli. *J. Neuroscience*, **26**, **2006**, 6997-7006.
293. Construction of Optimal Quasi-Conformal Mappings for the 2D-Numerical Simulation of Diffusion at Microelectrodes. Part 1. Principle of the Method and its Application to the Inlaid Disk Microelectrode. C. Amatore, A.I. Oleinick, I. Svir. *J. Electroanal. Chem.*, **597**, **2006**, 69-76.
294. Construction of Optimal Quasi-Conformal Mappings for the 2D-Numerical Simulation of Diffusion at Microelectrodes. Part 2. Application to Recessed or Protruding Electrodes and their Arrays. C. Amatore, A.I. Oleinick, I. Svir. *J. Electroanal. Chem.*, **597**, **2006**, 77-85.
295. Electrochemical Detection in a Microfluidic Device of Oxidative Stress Generated by Macrophage Cells. C. Amatore, S. Arbault, Y. Chen, C. Crozatier, I. Tapsoba. *Lab. Chip.*, **7**, **2007**, 233 - 238.
296. Regulation of Exocytosis in Chromaffin Cells by *trans*-Insertion of Lyso-phosphatidylcholine and Arachidonic Acid into the Outer Leaflet Cell Membrane. C. Amatore, S. Arbault, Y. Bouret, M. Guille, F. Lemaître, Y. Verchier. *ChemBioChem*, **7**, **2006**, 1998-2003.
297. Synthesis and Electrochemical Properties of Fullerene-rich Nanoclusters Resulting from the Cobalt-catalyzed Cyclotrimerization of Bis-aryalkyne Fullerodendrimers. U. Hahn, C. Amatore, E. Maisonhaute, J.-F. Nierengarten. *Angew. Chem. Int. Ed.*, **46**, **2007**, 951-954.

298. Theoretical Modeling and Optimization of the Detection Performance of a New Concept for Electrochemical Detection of Proteins in Microfluidic Channels. C. Amatore, A. Oleinick, I. Svir, N. Da Mota, L. Thouin. *Nonlinear Analysis: Model. Contr.*, **11**, **2006**, 345–365.
299. On the Formation of Pd(II) Complexes of Trost Modular Ligand Involving N-H Activation or P,O Coordination in Pd-Catalyzed Allylic Alkylations. C. Amatore, A. Jutand, L. Mensah, L. Ricard. *J. Organomet Chem.*, **692**, **2007**, 1457–1464.
300. Alteration of Diffusional Transport by Migration and Natural Convection: Theoretical and Direct Experimental Evidences upon Monitoring Steady-State Concentration Profiles at Planar Electrodes. C. Amatore, K. Knobloch, L. Thouin. *J. Electroanal. Chem.*, **601**, **2007**, 17–28.
301. Vesicular Exocytosis Under Hypotonic Conditions Evidences Two Distinct Populations of Dense Core Vesicles in Bovine Chromaffin Cells. C. Amatore, S. Arbault, I. Bonifas, F. Lemaître, Y. Verchier. *ChemPhysChem*, **8**, **2007**, 578–585.
302. Electrochemical Study of Pharmacological Activity at Single Cells: Beta-Lapachone Effect on Oxidative Stress of Macrophages. D. C. M. Ferreira, M. O. F. Goulart, I. Tapsoba, S. Arbault, C. Amatore. *Electrochem. Soc. Trans.*, **29**, **2007**, 3–11.
303. Reconstruction of Hydrodynamic Flow Profiles in a Rectangular Channel Using Electrochemical Methods of Analysis. O.V. Klymenko, A. I. Oleinick, C. Amatore, I. Svir. *Electrochim. Acta*, **53**, **2007**, 1100–1106. [Invited paper]
304. Rate and Mechanism Complexities of the Reaction of Alkenes with Aryl-Palladium Complexes ligated by a bidentate P,P ligand in Heck reactions. C. Amatore, B. Godin, A. Jutand, F. Lemaître. *Chemistry Eur. J.*, **13**, **2007**, 2002–2011.
305. Electrochemical Recycling of Benzoquinone in the Pd/Benzoquinone-Catalyzed Heck-type Reactions from Arenes. C. Amatore, C. Cammoun, A. Jutand. *Adv. Synth. Catal.*, **349**, **2007**, 292–296.
306. Comparison of Apex and Bottom Secretion Efficiency at Chromaffin Cells as Measured by Amperometry. C. Amatore, S. Arbault, F. Lemaître, Y. Verchier. *Biophys. Chem.*, **127**, **2007**, 165–171.
307. Ultrafast Voltammetry for Probing Interfacial Electron Transfer: Which Rate Limits Electron Transfer through Oligophenylenevinylene-based Molecular Wires? C. Amatore, E. Maisonhaute, B. Schöllhorn, J. Wadhawan. *ChemPhysChem*, **8**, **2007**, 1321–1329.
308. Rate and Mechanism of the Heck Reactions of Arylpalladium Complexes Ligated by a Bidentate P,P Ligand with an Electron-Rich Alkene (Isobutyl Vinyl Ether). C. Amatore, B. Godin, A. Jutand, F. Lemaître. *Organometallics*, **26**, **2007**, 1757–1761.
309. Pd⁰-Catalyzed Allylic Aminations: Kinetics and Mechanism of the Reaction of Secondary Amines with Cationic (η^3 -allyl)PdL₂⁺ Complexes. C. Amatore, E. Génin, A. Jutand, L. Mensah. *Organometallics*, **26**, **2007**, 1875–1880.
310. Angeli's Salt (Na₂N₂O₃) is a Precursor of HNO and NO: a Voltammetric Study of the Reactive Intermediates Released by Angeli's Salt Decomposition. C. Amatore, S. Arbault, C. Ducrocq, S. Hu, I. Tapsoba. *ChemMedChem*, **2**, **2007**, 898–903.
311. Ferrocenyl oligo(phenylene-vinylene) thiols for the construction of selfassembled Monolayers. C. Amatore, S. Gazard, E. Maisonhaute, C. Pebay, B. Schöllhorn, J.-L. Syssa-Magalé, J. Wadhawan. *Eur. J. Inorg. Chem.*, **2007**, 4035–4042.
312. Confocal Microscopy Imaging of Electrochemiluminescence at Double Band Microelectrode Assemblies: Numerical Solution of the Inverse Optical Problem. C. Amatore, A. Oleinick, O.V. Klymenko, L. Thouin, L. Servant, I. Svir. *ChemPhysChem*, **8**, **2007**, 1664–1676.
313. The Nature and Efficiency of Neurotransmitters Exocytosis Depend also on Physico Chemical Parameters. C. Amatore, S. Arbault, M. Guille, F. Lemaître. *ChemPhysChem*, **8**, **2007**, 1597–1605 [Invited paper].
314. Comparative Oxidative Addition of Iodocyclopentadienyl Transition Metal Complexes (η^5 -C₅H₄-I)ML_n (M = Re, Mn, Fe) with a Palladium(0) Complex: Relevance to the Efficiency of Catalytic Reactions. C. Amatore, B. Godin, A. Jutand, B. Ferber, S. Top, G. Jaouen. *Organometallics*, **26**, **2007**, 3887–3890.
315. Electrochemical Activation of beta-Lapachone in beta-Cyclodextrin Inclusion Complexes and Reactivity of its Reduced Form Towards Oxygen in Aqueous Solutions. C. Amatore; O. Buriez; M. Goulart; F. de Abreu; D. Ferreira. *J. Electroanal. Chem.*, **608**, **2007**, 125–132.
316. Time-dependent diffusion-migration at cylindrical and spherical microelectrodes: steady and quasi-steady state analytical solution may be used under transient conditions. O.V. Klymenko, C. Amatore, I. Svir. *Anal. Chem.*, **79**, **2007**, 6341–6347.

317. Fullerodendrimers with a tris-isothiocyanate core allowing their anchoring onto gold electrodes. J.A. Camerano, M. A. Casado, U. Hahn, J.-F. Nierengarten, E. Maisonhaute, C. Amatore. *New J. Chem.*, **31**, **2007**, 1395-1399.
318. Relationship between Amperometric pre-Spike Feet and Secretion Granule Composition in Chromaffin Cells: An Overview. C. Amatore, S. Arbault, I. Bonifas, M. Guille, F. Lemaître, Y. Verchier. *Biophys. Chem.*, **129**, **2007**, 181-189.
319. Palladium/Benzoquinone-Catalyzed Electrochemical Oxidation of Alcohols Under Anaerobic Conditions. C. Amatore, C. Cammoun, A. Jutand. *Syn. Lett.*, **14**, **2007**, 2173-2178.
320. Electrochemical Study of Methyl 2-[*p*-Nitrophenyl(Hydroxy)Methyl]Acrylate, An Anticancer Drug and its reactivity towards GSH and Oxygen. M.O.F. Goulart, A.A. de Souza, F.C. de Abreu, F.S. de Paula, E.M. Sales, W.P. Almeida, O. Buriez, C. Amatore. *J. Electrochem. Soc.*, **154**, **2007**, 121-129.
321. Mathematical Modelling of Nitric Oxide Release Caused by Exocytosis and Determination of a Stellate Neuron Activity Function in Rat Brain. A. Oleinick, C. Amatore, O. Klymenko, I. Svir. *Nonlin. Anal. Model & Control*, **12**, **2007**, 399-408.
322. In situ and on-line Monitoring of Hydrodynamic Flow Profiles in Microfluidic Channels Based upon Microelectrochemistry: Optimisation of Channel Geometrical Parameters for Best Performance of Flow Profile Reconstruction. C. Amatore, O.V. Klymenko, A. Oleinick, I. Svir. *ChemPhysChem*, **8**, **2007**, 1870-1874.
323. The influence of Phenolic Hydroxy Substitution on the Electron Transfer and anti-Cancer Properties of Ferrocenyl Compounds based on the 1,1-diphenyl-1-butene Motif. E. Hillard, P. Pigeon, A. Vessières, C. Amatore, G. Jaouen. *Dalton Trans.*, **43**, **2007**, 5073-5081.
324. Concerted Activities of Nitric Oxide Synthases and NADPH Oxidases in PLB-985 Cells. Y. Verchier, B. Lardy, M.V.C. Nguyen, F. Morel, S. Arbault, C. Amatore. *Biochem. Biophys. Res. Commun.*, **361**, **2007**, 493-498.
325. Electrochemical Oxidation of Half-Open Ruthenocene Compounds. Role of Acyclic Ligands on Acetonitrile Coordination. L.F. Cházaro-Ruiz, E. Maisonhaute, L. Thouin, C. Amatore, F.J. González, M.A. Paz-Sandoval. *J. Electroanal. Chem.*, **611**, **2007**, 96-106.
326. Theory and Experiments of Transport at Channel Microband Electrodes Under Laminar Flows. Part I. Steady-state Regimes at Single Electrode. C. Amatore, N. Da Mota, C. Sella, L. Thouin. *Anal. Chem.*, **79**, **2007**, 8502 - 8510.
327. Vitamin C Stimulates or Attenuates Reactive Oxygen and Nitrogen Species (ROS, RNS) Production Depending on Cell State: Quantitative Amperometric Measurements of Oxidative Bursts at PLB-985 and RAW 264.7 at the Single Cell Level. C. Amatore, S. Arbault, D.C. Melo Ferreira, I. Tapsoba, Y. Verchier. *J. Electroanal. Chem.*, **615**, **2008**, 34-44.
328. Theoretical Trends of Diffusion and Reaction into Tubular Nano- and Mesoporous Structures: General Physicochemical and Physicomathematical Modeling. C. Amatore. *Chemistry Eur. J.*, **14**, **2008**, 5449-5464.
329. Theory and Simulation of Diffusion-Reaction into Nano- and Mesoporous Structures. Experimental Application to Sequestration of Mercury(II). C. Amatore, A. Oleinick, O.V. Klymenko, C. Delacôte, A. Walcarius, I. Svir. *Anal. Chem.*, **80**, **2008**, 3229-3243.
330. Real-time Amperometric Analysis of Reactive Oxygen and Nitrogen Species Released by Single Immunostimulated Macrophages. C. Amatore, S. Arbault, C. Bouton, J.C. Drapier, H. Ghandour, A.C.W. Koh. *ChemBioChem*, **9**, **2008**, 1472-1480.
331. Electrochemical parameters and techniques in drug development, with an emphasis on quinones and related compounds. E.A. Hillard, F. Caxico de Abreu, D.C. Melo Ferreira, G. Jaouen, M.O. Fonseca Goulart, C. Amatore. *Chem. Commun.*, **2008**, 2612–2628. [Invited paper ; Feature Review]
332. A new approach for the determination of a stellate neuron activity function in rat's brain. O.V. Klymenko, A. Oleinick, C. Amatore, I. Svir. *Russian J. Phys. Chem. A*, **82**, **2008**, 1-6. [Invited paper; English version: *Russian J. Phys. Chem. A*, **82**, **2008**, 1428-1433]
333. Electrochemically-Driven Release of Picomoles Amounts of Calcium Ions with Temporal and Spatial Resolution. C. Amatore, D. Genovese, E. Maisonhaute, N. Raouafi, B. Schöllhorn. *Angew. Chem. Int. Edn.*, **47**, **2008**, 5211-5214.
334. General Concept of High-Performance Amperometric Detector for Microfluidic (Bio)Analytical Chips. C. Amatore, N. Da Mota, C. Sella, L. Thouin. *Anal. Chem.*, **80**, **2008**, 4976-4985.
335. Electrochemical Monitoring of Single Cell Secretion: Vesicular Exocytosis and Oxidative Stress. C. Amatore, S. Arbault, M. Guille, F. Lemaître. *Chem. Rev.*, **108**, **2008**, 2585–2621. (doi: 10.1021/cr068062g). [Invited paper in Special Issue about Molecular Electrochemistry]

336. Electrochemical Attachment of a Conjugated Amino-Ferrocifen Complex onto Carbon and Metal Surfaces. C. Amatore, O. Buriez, E. Labbé, P. Pigeon. *J. Electroanal. Chem.*, 619–620, **2008**, 169–175.
337. Pd-Catalyzed Homocoupling Reaction of Arylboronic Acid: Insights from Density Functional Theory. H. Lakmini, I. Ciofini, A. Jutand, C. Amatore, C. Adamo. *J. Phys. Chem. A*, 112, **2008**, 12896–12903. [Invited paper in Honor of Sason Shaik]
338. Reactivity and Antiproliferative Activity of Ferrocenyl Tamoxifen Adducts with Cyclodextrins Against Hormone Independent Breast Cancer Cell Lines. C. Amatore, O. Buriez, J.-M. Heldt, E. Labbé, A. Vessières, G. Jaouen. *Chemistry Eur. J.*, 14, **2008**, 8195–8203.
339. Direct Monitoring of Ultrafast Redox Commutation at the Nanosecond and Nanometer Scales by Ultrafast Voltammetry: from Molecular Wires to Cation Releasing Systems. C. Amatore, E. Maisonhaute, J.-F. Nierengarten, B. Schöllhorn. *Isr. J. Chem.*, 48, **2008**, 203–214. [Invited paper in Special Issue about *Molecular Electrochemistry*].
340. Is there an Intrinsic Limit to the Size of 2D-supracrystals Built from Weakly Interacting Nanoparticles? C. Amatore. *Chemistry Eur. J.*, 14, **2008**, 8615–8623.
341. Rates of the Oxidative Addition of Benzyl Halides to a Metallacyclic Palladium(II) Complex and of the Reductive Elimination from a Benzyl-Palladium(IV) Complex. C. Amatore, M. Catellani, S. Deledda, A. Jutand, E. Motti. *Organometallics*, 27, **2008**, 4549–4554.
342. Anaerobic Pd(OAc)₂/p-Benzoquinone-Catalyzed Electrooxidative Homocoupling of Arylboronic Acids, Esters and Trifluoroborates in DMF or/and Water. C. Amatore, C. Cammoun, A. Jutand. *Eur. J. Org. Chem.*, **2008**, 4567–4570.
343. Theoretical Analysis Microscopic of Ohmic Drop Effects on Steady-State and Transient Voltammetry at the Disk Microelectrode: a Quasi-Conformal Mapping Modelling and Simulation. C. Amatore, A. Oleinick, I. Svir. *Anal. Chem.*, 80, **2008**, 7947–7956.
344. Capacitive and Solution Resistance Effects on Voltammetric Responses of a Thin Redox Layer Attached to Disk Microelectrodes. C. Amatore, A. Oleinick, I. Svir. *Anal. Chem.*, 80, **2008**, 7957–7963.
345. Supramolecular Effects of Cyclodextrins on the Electrochemical Reduction and Reactivity of Aromatic Carbonyl Compounds. C. Amatore, O. Buriez, E. Labbé, J.-N. Verpeaux. *J. Electroanal. Chem.*, 621, **2008**, 134–145. [Invited paper ; Special Issue in Honor of Israel Rubinstein].
346. Triangulation-Mapping of Oxidative Bursts Released by Single Fibroblasts by Amperometry at Microelectrodes. C. Amatore, S. Arbault, M. Erard. *Anal. Chem.*, 80, **2008**, 9635–9641.
347. Theory of Ion Transport in Electrochemically Switchable Nanoporous Metallized Membranes. C. Amatore, A. Oleinick, I. Svir. *ChemPhysChem.*, 10, **2009**, 211–221. [Invited paper; Special Issue commemorating the 10th Anniversary of *ChemPhysChem*]
348. Design and Electrochemical characterization of a new Cobalt(II)-Cyclodextrin Complex. Evidence for a Supramolecular Stabilization of the Co(I) state. E. Deunf, O. Buriez, E. Labbe, J.-N. Verpeaux, C. Amatore. *Electrochem. Commun.*, 11, **2009**, 114–117.
349. Theory and Experiments of Transport at Channel Microband Electrodes under Laminar Flows. 2. Electrochemical Regimes at Double Microband Assemblies under Steady-State. C. Amatore, N. Da Mota, C. Lemmer, C. Sella and L. Thouin. *Anal. Chem.*, 80, **2008**, 9483–9490.
350. *Ex-vivo* Activities of β -Lapachone and α -Lapachone on Macrophages: a Quantitative Pharmacological Analysis based on Amperometric Monitoring of Oxidative Bursts at Single Cell. D.C.M. Ferreira, I. Tapsoba, S. Arbault, Y. Bouret, M.S. Alexandre Moreira, A. Ventura Pinto, M.O.F. Goulart, C. Amatore. *ChemBioChem*, 10, **2009**, 528–538.
351. The Replacement of a Phenol Group by an Aniline or Acetanilide Group Enhances the Cytotoxicity of 2-Ferrocenyl-1,1-diphenyl-but-1-ene Compounds Against Breast Cancer Cells. P. Pigeon, S. Top, O. Zekri, E.A. Hillard, A. Vessières, M.-A. Plamont, E. Labbé, O. Buriez, M. Huché, S. Boutamine, C. Amatore, G. Jaouen. *J. OrganoMet. Chem.*, 694, **2009**, 895–901. [Invited paper; Special Issue on “*Bioorganometallics*” in Honor of Gérard Jaouen].
352. Ultrasound-Promoted Aromatic Nucleophilic Substitution of Dichlorobenzene Iron(II) Complexes. N. Raouafi, N. Belhadj, K. Boujlel, A. Ourari, C. Amatore, E. Maisonhaute, B. Schöllhorn. *Tet. Lett.*, 50, **2009**, 1720–1722.
353. Invariance of exocytotic events detected by amperometry as a function of the carbon fiber microelectrode diameter. C. Amatore, S. Arbault, Y. Bouret, M. Guille, F. Lemaître, Y. Verchier. *Anal. Chem.*, 81, **2009**, 3087–3093.

354. Numerical Simulation of Diffusion Processes at Recessed Disk Microelectrode Arrays Using the Quasi-Conformal Mapping Approach. C. Amatore, A.I. Oleinick, I. Svir. *Anal. Chem.*, **81**, **2009**, 4397–4405.
355. Theory of Long-Range Diffusion of Proteins on a Spherical Biological Membrane. Application to Protein Clusters Formation and Actin-Comet Tail Growth. C. Amatore, A.I. Oleinick, O.V. Klymenko, I. Svir. *ChemPhysChem*, **10**, **2009**, 1586–1593.
356. Diffusion with Moving Boundary Condition on Spherical Surfaces. C. Amatore, O.V. Klymenko, A.I. Oleinick, I. Svir. *ChemPhysChem*, **10**, **2009**, 1593–1603.
357. Quantitative Investigations of Amperometric Spike Feet Suggest Different Controlling Factors of the Fusion Pore in Exocytosis at Chromaffin Cells. C. Amatore, S. Arbault, I. Bonifas, M. Guille. *Biophys. Chem.*, **143**, **2009**, 124–131.
358. Cyclic Voltammetry at Microelectrodes. Influence of Natural Convection on Diffusion Layers as Characterized by in-situ Mapping of Concentration Profiles. C. Amatore, C. Pebay, L. Thouin, A. Wang. *Electrochem. Commun.*, **11**, **2009**, 1269–1272.
359. Exploring the First Steps of an Electrochemically-Triggered Controlled Polymerization Sequence: Activation of Alkyl- and Benzyl Halide Initiators by an Electrogenenerated Fe^{II}Salen Complex. V. Bonometti, E. Labbé, O. Buriez, P. Mussini, C. Amatore. *J. Electroanal. Chem.*, **633**, **2009**, 89–105.
360. A [3]Ferrocenophane Polyphenol Showing a Remarkable Antiproliferative Activity on Breast and Prostate Cancer Cell Lines. D. Plažuk, A. Vessières, E.A. Hillard, C. Amatore, O. Buriez, E. Labbé, P. Pigeon, M.-A. Plamont, J. Zakrzewski, G. Jaouen. *J. Med. Chem.*, **52**, **2009**, 4964–4967.
361. Electrochemical Determination of Flow Velocity Profile in a Microfluidic Channel From Steady State Currents. Numerical Approach and Optimization of Electrode Layout. C. Amatore, O.V. Klymenko, A.I. Oleinick, I. Svir. *Anal. Chem.*, **81**, **2009**, 7667–7676.
362. Capacitive and Solution Resistance Effects on Voltammetric Responses at Disk Microelectrode Covered with Self-Assembled Monolayer in the Presence of Electron Hopping. C. Amatore, A. Oleinick, O.V. Klymenko, I. Svir. *Anal. Chem.*, **81**, **2009**, 8545–8556.
363. Further Insights into Hydrophobic Interactions between Ferrocenyl-Tamoxifen Drugs and Non-Polar Molecular Architectures at Electrode Surfaces. O. Mertins, O. Buriez, E. Labbé, P-P. Fang, E. Hillard, A. Vessières, G. Jaouen, Z-Q. Tian, C. Amatore. *J. Electroanal. Chem.*, **635**, **2009**, 13-19.
364. Diffusion from within a Spherical Body with Partially Blocked Surface: Diffusion through a Constant Surface Area. C. Amatore, A.I. Oleinick, I. Svir. *ChemPhysChem*, **11**, **2010**, 149-158.
365. Reconstruction of Aperture Functions During Full Fusion in Vesicular Exocytosis of Neurotransmitters. C. Amatore, A.I. Oleinick, I. Svir. *ChemPhysChem*, **11**, **2010**, 159-174.
366. Anodic abatement of organic pollutants in water in micro reactors. O. Scialdone, C. Guarisco, A. Galia, G. Filardo, G. Silvestri, C. Amatore, C. Sella, L. Thouin. *J. Electroanal. Chem.*, **638**, **2010**, 293-296.
367. Finding Out Egyptian Gods' Secret Using Analytical Chemistry: Biomedical Properties of Egyptian Black Make-up Revealed by Amperometry at Single Cells. I Tapsoba, S. Arbault, P. Walter, C. Amatore. *Anal. Chem.*, **82**, **2010**, 457-460. [Invited Letter].
368. Chemo- and Product-selective Electrooxidation of 3-(Arylthiomethyl)- Δ^3 -cephems. H. Tanaka, Y. Tokumaru, K-I. Fukui, M. Kuroboshi, S. Torii, A. Jutand, C. Amatore. *Synthesis*, **20**, **2009**, 3449-3459.
369. Pro-oxidant Properties of Zidovudine (AZT) and other Thymidine-Analogues in Macrophages Evaluated at the Single Cell Level by Amperometry: Implication of the Azido Moiety in Oxidative Stress. C. Amatore, S. Arbault, G. Jaouen, A.C.W. Koh, W.K. Leong, S. Top, M.A. Valleron, C.H. Wo. *ChemMedChem.*, **5**, **2010**, 296-301.
370. Simultaneous Detection and Quantification of Reactive Oxygen and Nitrogen Species Released by a Single Macrophage by Triple Potential-Step Amperometry. C. Amatore, S. Arbault, A. Koh. *Anal. Chem.*, **82**, **2010**, 1411-1419.
371. Theory and Experiments of Transport at Channel Microband Electrodes Under Laminar Flow. 3. Electrochemical Detection at Electrode Arrays Under steady state. C. Amatore, N. Da Mota, C. Sella, L. Thouin. *Anal. Chem.*, **82**, **2010**, 2434-2440.
372. A new way to strike inflammation from both sides: Mn(II) pentaazamacrocyclic SOD mimics as nitric oxide dismutases. A single cell study. M.R. Filipovic, A.C.W. Koh, S. Arbault, V. Niketic, A. Debus, U. Schleicher, C. Bogdan, M. Guille, F. Lemaitre, C. Amatore, I. Ivanovic-Burmazovic. *Angew. Chem.*, **49**, **2010**, 4228-4232.

373. Prediction of Local pH Variations during Amperometric Monitoring of Vesicular Exocytotic Events at Chromaffin Cells. C. Amatore, S. Arbault, Y. Bouret, M. Guille, F. Lemaître. *ChemPhysChem.*, **11**, **2010**, 2931-2941. [invited paper, Special Issue on Electrochemistry; selected as “very important paper”]
374. Fabrication and Characterization of Adjustable Nanogaps between Gold Electrodes on Chip for Electrical Measurement of Single Molecules. J-H. Tian, Y. Yang, B. Liu, B. Schöllhorn, D-Y. Wu, E. Maisonhaute, A. Serra Muns, Y. Chen, C. Amatore, N-J. Tao, Z-Q. Tian. *Nanotechnology*, **21**, **2010**, 274012 (6pp). [selected as “very important paper”]
375. Microchip for Ultrafast Voltammetry. P. Fortgang, C. Amatore, E. Maisonhaute, B. Schöllhorn. *Electrochem. Commun.*, **12**, **2010**, 897-900.
376. In situ Electrochemical Monitoring of Reactive Oxygen and Nitrogen Species Released by Single MG63 Osteosarcoma Cell Submitted to a Mechanical Stress. R. Hu, M. Guille, S. Arbault, C.J. Lin, C. Amatore. *Phys. Chem. Chem. Phys. (PCCP)*, **12**, **2010**, 10048-10054. [Invited paper in Themed Issue on Bioelectrochemistry]
377. A New Strategy for Simulation of Electrochemical Mechanisms Involving Acute Reaction Fronts in Solution: Principle. C. Amatore, O. Klymenko, I. Svir. *Electrochem. Commun.*, **12**, **2010**, 1170-1173.
378. A New Strategy for Simulation of Electrochemical Mechanisms Involving Acute Reaction Fronts in Solution: Application to Model Mechanisms. C. Amatore, O. Klymenko, I. Svir. *Electrochem. Commun.*, **12**, **2010**, 1165-1169.
379. Synthesis and Electrochemical Study of an Original Copper(II)-capped Salen-Cyclodextrin Complex. E. Deunf, E. Zaborova, S. Guieu, Y. Blériot, J.-N. Verpeaux, O. Buriez, M. Sollogoub, C. Amatore. *Eur. J. Inorg. Chem.*, **2010**, 4720-4727.
380. *In-situ* Identification of Intermediates of Benzyl Chloride Reduction at a Silver Electrode by SERS-Coupled with DFT Calculation. A. Wang, Y.-F. Huang, U. Kumar Sur, D.-Y. Wu, B. Ren, S. Rondinini, C. Amatore, and Z.-Q. Tian. *J. Am. Chem. Soc.*, **132**, **2010**, 9534-9536.
381. Difference between Ultramicroelectrodes and Microelectrodes: Influence of Natural Convection. C. Amatore, C. Pebay, L. Thouin, A. Wang, J.C. Warkocz. *Anal. Chem.*, **82**, **2010**, 6933-6939.
382. Theoretical Study of the EE Reaction Mechanism with Comproportionation and Different Diffusivities of Reactants. O. V. Klymenko, I. Svir, C. Amatore. *Electrochem. Commun.*, **12**, **2010**, 1378-1382.
383. Electrochemically Assisted Fabrication of Metal Atomic Wires and Molecular Junctions Using Mechanically-Controllable-Break-Junction and STM-Break Junction Methods. J-H. Tian, Y. Yang, X-S. Zhou, A. Serra-Muns, B. Schöllhorn, E. Maisonhaute, Z-B. Chen, F-Z. Yang, Yong Chen, C. Amatore, B-W. Mao, Z-Q. Tian. *ChemPhysChem*, **11**, **2010**, 2745-2755. [Invited Review, Special Issue on Electrochemistry]
384. Kinetic Data for the Transmetalation/Reductive Elimination in Palladium-Catalyzed Miyaura-Suzuki Reactions: Unexpected Triple Role of Hydroxide Ions Used as Base. C. Amatore, A. Jutand, G. Le Duc. *Chem. Eur. J.*, **17**, **2011**, 2492-2503.
385. Bridging the Gap Between Electrochemical and Organometallic Activation: Benzyl Chloride Reduction at Silver Cathodes. Y.F. Huang, D.Y. Wu, A. Wang, B. Ren, S. Rondinini, Z.Q. Tian, C. Amatore. *J. Am. Chem. Soc.*, **132**, **2010**, 17199-17210.
386. Electrochemically Active Phenylenediamine Probes for Transition Metal Detection. R. Sahli, N. Raouafi, K. Boujlel, E. Maisonhaute, B. Schöllhorn, C. Amatore. *New J. Chem.*, **35**, **2011**, 709-715.
387. Tailoring Au-core Pd-shell Pt-cluster Nanoparticles for Enhanced Electrocatalytic Activity. P.P. Fang, S. Duan, X.D. Lin, J.R. Anema, J.F. Li, O. Buriez, Y. Ding, F.R. Fan, D.Y. Wu, B. Ren, Z.L. Wang, C. Amatore, Z.Q. Tian. *Chem. Sci.*, **2**, **2011**, 531-539.
388. Molecular Motion inside an Adsorbed [5:1] Fullerene Hexa-adduct Bearing Ten Peripheral Redox Subunits Evidenced by Ultrafast Cyclic Voltammetry. P. Fortgang, E. Maisonhaute, C. Amatore, B. Delavaux-Nicot, J. Iehl, J-F. Nierengarten. *Angew. Chem.*, **50**, **2011**, 2364-2367.
389. Reply to the Comments by Dieter Britz on Two of Our Recent Papers. C. Amatore, O. Klymenko, I. Svir. *Electrochim. Acta*, **56**, **2011**, 4422-4423. [Invited paper by Editor].
390. A Density Functional Theory Approach to Unusually High Electrocatalytic Activity of Platinum Clusters on Palladium-Shell Nanoparticles. S. Duan, P.P. Fang, F.R. Fan, I. Broadwell, D.Y. Wu, B. Ren, C. Amatore, Y. Luo, X. Xu, Z.Q. Tian. *Phys. Chem. Chem. Phys. (PCCP)*, **13**, **2011**, 5441-5449. [Invited paper ; Special Issue in Honor of John Albery].
391. Electrochemical Analysis of the Interactions and Reactivity of Ferrocene-Based Drugs with a Lipid Environment: a Qualitative Overview. O. Mertins, P. Messina, E. Labbé, V. Vivier, S. Arbault, F. Lemaître, O.

- Buriez, C. Amatore. *Inorg. Chim. Acta*, **374**, **2011**, 59-68. [Invited paper ; Special Issue in Honor of Wolfgang Kaim].
392. Organometallic Derivative of BAPTA Ligand: Towards Electrochemically Controlled Cation Release in Biocompatible Media. K.X. Bhattacharyya, L. Boubekeur-Lecaque, I. Tapsoba, E. Maisonhaute, B. Schöllhorn, C. Amatore. *Chem. Commun.*, **47**, **2011**, 5199-5201.
393. Coupling Amperometry and Total Internal Reflection Fluorescence Microscopy at ITO surfaces for Monitoring Exocytosis of Single Vesicles. A. Meunier, O. Jouannot, R. Fulcrand, I. Fanget, M. Bretou, E. Karatekin, S. Arbault, M. Guille, F. Darchen, F. Lemaître, C. Amatore. *Angew. Chem.*, **50**, **2011**, 5081-5084. [VIP paper, selected for *Angew. Chem.* backcover].
394. Do Molecular Conductances Correlate with Electrochemical Rate Constants? Experimental Insights. X.S. Zhou, L. Liu, P. Fortgang, A.-S. Lefevre, A. Serra-Muns, N. Raouafi, C. Amatore, B.-W. Mao, E. Maisonhaute, B. Schöllhorn. *J. Am. Chem. Soc.*, **133**, **2011**, 7509-7516.
395. Channel Microband Chronoamperometry: From Transient to Steady-State Regimes. C. Amatore, C. Lemmer, C. Sella, L. Thouin. *Anal. Chem.*, **83**, **2011**, 4170-4177.
396. Simple and Clear Evidence for Positive Feedback Limitation by Bipolar Behavior during Scanning Electrochemical Microscopy of Unbiased Conductors. A.I. Oleinick, D. Battistel, S. Daniele, I. Svir, C. Amatore. *Anal. Chem.*, **83**, **2011**, 4887-4893.
397. Electrochemistry at Gold Nanoparticles Deposited on Dendrimers Assemblies Adsorbed onto Gold and Platinum Surfaces. P.-P. Fang, O. Buriez, E. Labbé, Z.-Q. Tian, C. Amatore. *J. Electroanal. Chem.*, **659**, **2011**, 76-82.
398. A new strategy for simulation of electrochemical mechanisms involving acute reaction fronts in solution under spherical or cylindrical diffusion. C. Amatore, O. Klymenko, A. Oleinick, I. Svir. *Russian J. Electrochem.*, **48**, **2012**, 593-599. [Invited paper, special issue]
399. Gold Nanoclusters and Graphene Nanocomposites for Drug Delivery and Imaging of Cancer Cells. C.S. Wang, J.Y. Li, C. Amatore, Y. Chen, H. Jiang, X. Wang. *Angew. Chem.*, **50**, **2011**, 11644-11648.
400. Au-Core Pd-Shell Nanoparticles Catalyze Suzuki-Miyaura Reactions in Water through Pd-Leaching. P.-P. Fang, A. Jutand, Z.-Q. Tian, C. Amatore. *Angew. Chem.*, **50**, **2011**, 12184-12188. [VIP paper, selected for *Angew. Chem.* frontispice].
401. Theory and experiments of microelectrodes performing as concentration probes within microfluidic channels with high temporal resolution. C. Amatore, C. Lemmer, P. Perrodin, C. Sella, L. Thouin. *Electrochem. Commun.*, **13**, **2011**, 1459-1461.
402. Roles of Fluoride Ions in Palladium-Catalyzed Suzuki-Miyaura Reactions: Unprecedented Transmetalation from ArPdFL₂ Complexes. C. Amatore, A. Jutand, G. Le Duc. *Angew. Chem.*, **51**, **2012**, 1379-1382.
403. A Novel Approach to Simulation of Electrochemical Mechanisms at Microelectrodes Involving Acute Reaction Fronts in Solution. Implementation for 2D Geometries: Disk and Band. O.V. Klymenko, I. Svir, A. Oleinick, C. Amatore. *ChemPhysChem*, **13**, **2012**, 845-859.
404. Indium Tin Oxide devices for amperometric detection of vesicular release by single cells. C. Amatore, R. Fulcrand, François Darchen, M. Guille Collignon, F. Lemaître, A. Meunier. *Biophys. Chem.*, **162**, **2012**, 14-21. (Corrigendum: *Biophys. Chem.* **171**, **2013**, 84-85).
405. Deciphering the Activation Sequence of Ferrociphenol Anticancer Drug Candidates. P. Messina, E. Labbé, O. Buriez, E. A. Hillard, A. Vessières, D. Hamels, S. Top, G. Jaouen, Y. M. Frapart, D. Mansuy, C. Amatore. *Chem. Eur. J.*, **18**, **2012**, 6581-6587.
406. Mass transport at microband electrodes: Transient, quasi-steady-state and convective regimes. C. Amatore, C. Pebay, C. Sella, L. Thouin. *ChemPhysChem*, **13**, **2012**, 1562-1568.
407. Evaluation of the Anti-Oxidant Properties of a Mn-SOD-mimic in Activated Macrophages. C. Giroud, A.-S. Bernard, H.Y.V. Ching, A. Meunier, V. Ambike, C. Amatore, M. Guille Collignon, F. Lemaître, C. Policar. *RSC Dalton*, **41**, **2012**, 6399-6403. [Invited paper in Themed Issue].
408. Importance of Correct Prediction of Initial Concentrations in Voltammetric Scans: Contrasting Roles of Thermodynamics, Kinetics and Natural Convection. O.V. Klymenko, I. Svir, C. Amatore. *Anal. Chem.*, **84**, **2012**, 2792-2798.
409. Mechanistic Origin of Antagonist Effects of Usual Anionic Bases (OH⁻, CO₃²⁻) as Modulated by their Counter-Cations (Na⁺, Cs⁺, K⁺) in Palladium-Catalyzed Suzuki-Miyaura Reactions. C. Amatore, A. Jutand, G. Le Duc. *Chem. Eur. J.*, **18**, **2012**, 6616-6625.

410. Direct Electrochemical Reduction of Organic Halides Micro-Emulsions in Water. E. Deunf, O. Buriez, E. Labbé, J.N. Verpeaux, C. Amatore. *RSC Advances*, *12*, **2012**, 5938-5402.
411. Nanoelectrodes for Determination of Reactive Oxygen and Nitrogen Species inside Biological Cells. Y. Wang, J.-M. Noël, J. Velmurugan, W. Nogala, M. V. Mirkin, C. Lu, M. Guille Collignon, F. Lemaître, C. Amatore. *Proc Natl Acad Sci USA*, *109*, **2012**, 11534-11539.
412. Ferrocenyl Catechols: Synthesis, Oxidation Chemistry and anti-Proliferative Effects on MDA-MB-231 Breast Cancer Cells. Y.L.K. Tan, P. Pigeon, S. Top, E. Labbé, O. Buriez, E.A. Hillard, A. Vessières, C. Amatore, W.K. Leong, G. Jaouen. *Dalton Trans.*, *41*, **2012**, 7537-7549.
413. Electrocatalytic oxidation of organic substrates with molecular oxygen using tetradentate ruthenium(III)-Schiff base complexes as catalysts. A. Ourari, M. Khelafi, D. Aggoun, A. Jutand, C. Amatore. *Electrochim. Acta*, *75*, **2012**, 366-370.
414. A new strategy for simulation of electrochemical mechanisms involving acute reaction fronts in solution under spherical or cylindrical diffusion. O. Klymenko, A. Oleinick, I. Svir, C. Amatore. *Electrochimia*, *48*, **2012**, 659-666. [Invited paper, special issue; in Russian]
415. New Theoretical Insights into the Coupling between Adsorption Phenomena and Homogeneous Processes. O.V. Klymenko, I. Svir, C. Amatore. *J. Electroanal. Chem.*, *688*, **2013**, 320-327. [Invited paper Special Issue in honor of Profs. Cha and Tian].
416. Electrochemistry of a Ferrocene-Grafted Cell-Penetrating Peptide. P. Messina, G. Hallais, E. Labbé, M. Béranger, G. Chassaing, S. Lavielle, C. Mansuy, O. Buriez, C. Amatore. *Electrochim. Acta*, *80*, **2012**, 180-186.
417. Apoptosis Induction and Inhibition of Drug Resistant Tumor Growth *in vivo* Involving Daunorubicin-loaded Graphene-gold Composites. G. Zhang, H.-C. Chang, C. Amatore, Y. Chen, H. Jiang, X. M. Wang. *J. Mat. Chem. B*, *4*, **2013**, 493-499.
418. Theory and Computational Study of Electrophoretic Ion Separation and Focusing in Microfluidic Channels. O.V. Klymenko, W. Sun, Y.-L. Zhou, Z.-W. Tian, C. Amatore, I. Svir. *Nonlin. Anal. Model & Control*, *17*, **2012**, 431-447.
419. Highly Sensitive Pt-black Electrodes for Detection in Microchannel. Application to the Electrochemical Detection of Hydrogen Peroxyde and Nitrites. Y. Li, C. Sella, F. Lemaître, M. Guille Collignon, L.Thouin, C. Amatore. *Electroanalysis*, *25*, **2013**, 895-902. [Invited paper Special Issue in honor of Prof. Er kang Wang 80th birthday]
420. *In vivo* self-bio-imaging of tumors through in situ biosynthesized fluorescent gold nanoclusters. J. Wang, G. Zhang, Q. Li, H. Jiang, C. Liu, C. Amatore, X. Wang. *Nature Scientific Reports*, *3*, **2013**, #1157.
421. A New Approach for the Simulation of Electrochemiluminescence (ECL). O.V. Klymenko, I. Svir, C. Amatore. *ChemPhysChem*, *14*, **2013**, 2237-2250. [Invited: Special Issue for Adam Heller]
422. Theoretical investigation of generator-collector microwell arrays for improving electroanalytical selectivity: Application to selective dopamine detection in presence of ascorbic acid. A. Oleinick, F. Zhu, J.W. Yan, B.W. Mao, I. Svir, C. Amatore. *ChemPhysChem*, *14*, **2013**, 1887-1898. [Selected for Front Cover Page]
423. Vesicular Release of Neurotransmitters: Converting Amperometric Measurements into Size, Dynamics and Energetics of Initial Fusion Pores. A. Oleinick, F. Lemaître, M. Guille Collignon, I. Svir, C. Amatore. *Faraday Discuss.*, *164*, **2013**, 33-55.
424. Mechanism of Palladium-Catalyzed Suzuki-Miyaura Reactions: Multiple and Antagonist Roles of Anionic "Bases" and their Counter-Cations. C. Amatore, G. Le Duc, A. Jutand. *Chem. Eur. J.*, *19*, **2013**, 10082-10093. [Invited MiniReview]
425. Surface grafting of a π -conjugated amino-ferrocifen drug. O. Buriez, F.I. Podvorica, A. Galtayries, E. Labbé, S. Top, A. Vessières, G. Jaouen, C. Combellas, C. Amatore. *J. Electroanal. Chem.*, *699*, **2013**, 21-27.
426. NHC-capped-cyclodextrins provide an original comutable multicoordination sphere as well as an insulation to encapsulated metal centres yet possessing catalytic activity with cavity-dependant selectivity. M. Guitet, P. Zhang, F. Marcelo, C. Tugny, J. Jiménez-Barbero, O. Buriez, C. Amatore, V. Mouriès-Mansuy, J.P. Goddard, L. Fensterbank, Y. Zhang, S. Roland, M. Ménand, M. Sollogoub. *Angew. Chem.*, *52*, **2013**, 7213-7218.
427. The Effect of Protic Electron Donor Aromatic Substituents on Ferrocenic and [3]Ferrocenophanic Anilines and Anilides. Some Aspects of Structure-Activity Relationship Studies on Organometallic Compounds with Strong Antiproliferative Effects. J.d.J. Cazares-Marineroa, E. Labbé, S. Top, O. Buriez, C. Amatore, G. Jaouen. *J. Organomet. Chem.*, *744*, **2013**, 92-100.

428. Synthesis, Characterization and Antiproliferative Activities of Novel Ferrocenophanic Suberamides against Human Triple-Negative MDA-MB-231 and Hormone-Dependent MCF-7 Breast Cancer Cells. J. de J. Cázares-Marinero, O. Buriez, E. Labbé, S. Top, C. Amatore, G. Jaouen. *Organometallics*, **32**, **2013**, 5926-5934.
429. Amperometric Detection of Vesicular Exocytosis from BON Cells at Carbon Fiber Microelectrodes. A. Meunier, M. Bretou, F. Darchen, M. Guille Collignon, F. Lemaître, C. Amatore. *Electrochim. Acta*, **126**, **2014**, 74–80.
430. Direct Electroanalytical Method for Assessment of Global Antioxidant Capacity Using Microchannel Electrodes. R. Oliveira, F. Bento, C. Sella, L. Thouin, C. Amatore. *Anal. Chem.*, **85**, **2013**, 9057–9063.
431. Uncovering a Missing Link between Molecular Electrochemistry and Electrocatalysis: Mechanism of Benzyl Chloride Reduction at Silver Cathodes. O. Klymenko, O. Buriez, E. Labbe, D.P. Zhan, S. Rondinini, Z.Q. Tian, C. Amatore. *ChemElectroChem*, **1**, **2014**, 227–240.
432. Benzyl Chloride Electroreduction on Ag Cathodes in CH₃CN in the Presence of Small Amounts of Water: Evidences of Quantitative Effects on Reaction Rates and Mechanism. O. Lugaresi, A. Minguzzi, C. Locatelli, A. Vertova, S. Rondinini, C. Amatore. *Electrocatalysis*, **4**, **2013**, 353–357.
433. A New Strategy for Eliminating Interference from EC' Mechanism during Analytical Measurements Based on Plane-band-recessed Microdisk Array Electrodes. S. Pang, J. Yan, F. Zhu, D. He, B-W. Mao, A. Oleinick, I. Svir, C. Amatore. *ElectroChem. Commun.*, **38**, **2014**, 61–64.
434. Electrochemical Conversion of Dichloroacetic Acid to Chloroacetic Acid in Conventional Cell and in Two Microfluidic Reactors. O. Scialdone, A.Galia, S. Sabatino, G. M. Vaiana, D. Agro, A. Busacca, C. Amatore. *ChemElectroChem*, **1**, **2014**, 116–124.
435. Mass Transport at Infinite Regular Arrays of Microband Electrodes: Theory and Experiments under Influence of Natural Convection. C. Amatore, C. Pebay, C. Sella, L. Thouin. *Anal. Chem.*, **85**, **2014**, 12062–12069.
436. Copper-Amyloid- β Complex May Catalyze Peroxynitrite Production in Brain: Evidence from Molecular Modeling. R. Giacobazzi, I. Ciofini, L. Rao, C. Adamo, C. Amatore, *Phys. Chem. Phys. Chem. (PCCP)*, **16**, **2014**, 10169-10174.
437. Monitoring and Quantifying Molecules Passive Transport through Patch-Clamp Suspended Real and Model Cell Membranes. P. Messina, F. Lemaître, F. Huet, K. An Ngo, V. Vivier, E. Labbé, O. Buriez, C. Amatore. *Angew. Chem. Int. Ed.*, **53**, **2014**, 3192–3196.
438. Real-Time Monitoring of Auxin Vesicular Exocytotic Efflux from Single Plant Protoplasts by Amperometry at Microelectrodes Decorated with Nanowires. J.T. Liu, L.S. Hu, Y.L. Liu, R.S. Chen, Z. Cheng, S.J. Chen, C. Amatore, W.H. Huang, K.F. Huo. *Angew. Chem. Int. Ed.*, **53**, **2014**, 2643–2647.
439. Molecular Electrochemistry and Electrocatalysis: A Dynamic View. O. V. Klymenko, I. Svir, C. Amatore. *Molecular Physics*, **112**, **2014**, 1273-1283. [Invited, Special Issue in honor of Pierre Turq]
440. Recent Advances in Electrochemical Detection of Exocytosis. M. Guille Collignon, F. Lemaître, C. Amatore. *Electrochim. Acta*, **140**, **2014**, 457-466. [Invited mini-review]
441. A New Strategy for Increasing the Electrode Density of Microelectrodes Array by Utilizing Bipolar Behavior of a Metallic Film. F. Zhu, J. Yan, S. Pang, Y. Zhou, B-W. Mao, A. Oleinick, I. Svir, C. Amatore. *Anal. Chem.*, **86**, **2014**, 3138-3145.
442. Water Soluble diAza Crown Ether Derivative: Synthesis and Barium Complexation Studies. L. Boubekeur-Lecaque, C. Souffrin, G. Gontard, K. Boubekeur, C. Amatore. *Polyhedron*, **68**, **2014**, 191–198.
443. Near-Infrared fluorescence Imaging of Cancer Cells and Tumors through Specific Biosynthesis of Silver Nanoclusters. S. Gao, D. Chen, Q. Li, J. Ye, H. Jiang, C. Amatore, X. Wang. *Nature Scientific Reports*, **4**, **2014**, # 4384.
444. Quantitative Analyses of ROS and RNS Production on Breast Cancer Cell Lines Incubated with Ferrocifens. C. Lu, J.-M. Heldt, M. Guille-Collignon, F. Lemaître, G. Jaouen, A. Vessières, C. Amatore. *ChemMedChem*, **9**, **2014**, 1286-1293.
445. Three Roles for the Fluoride Ion in Palladium-Catalyzed Hiyama Reactions: Transmetalation of [ArPdFL₂] by Ar'Si(OR)₃. C. Amatore, L. Grimaud, G. Le Duc, A. Jutand. *Angew. Chem. Int. Ed.*, **53**, **2014**, 6982–6985.
446. Oxidative Sequence of a Ruthenocene-Based Anti-Cancer Drug Candidate in a Basic Environment. H.Z.S. Lee, O. Buriez, E. Labbé, S. Top, P. Pigeon, G. Jaouen, C. Amatore, W.K. Leong. , *Organometallics*, **33**, **2014**, 4940–4946. [Invited, Special Issue on Organometallic Electrochemistry]
447. Design of novel gold nanocluster and its composites for cancer cell imaging and tumor bio-marking. J.L. Wang, H. Jiang, C.S. Wang, C.Y. Liu, C. Amatore, X.M. Wang. *Nature, Protocol Exchange*, Doi: 10.1038/protex.2014.005.

448. Synergetic Role of Amines and Water in the Reduction of Phosphine Ligated-Palladium(II) to Palladium(0). C. Amatore, L. Grimaud, A. Jutand, A. Meigné, G. Romanov. *Eur. J. Org. Chem.*, **22**, **2014**, 4709–4713.
449. Gold atomic contact: Electron conduction in the presence of interfacial charge transfer. Z.B. Chen, Z.L. Peng, Ji.H. Liang, X.S. Zhou, D.Y. Wu, C. Amatore, B.W. Mao. *Electrochem. Commun.*, **47**, **2014**, 41–44.
450. Nanoelectrode for Amperometric Monitoring of Individual Vesicular Exocytosis inside Single Synapses. Y.T. Li, S.H. Zhang, L. Wang, R.R. Xiao, W. Liu, X.W. Zhang, Z. Zhou, C. Amatore, W.H. Huang. *Angew. Chem. Int. Ed.*, **53**, **2014**, 12456–12460.
451. Simultaneous and Multisite Tumor Rapid-Target Bioimaging Through in vivo Biosynthesis of Fluorescent Gold Nanoclusters. J. Wang, J. Ye, H. Jiang, S. Gao, W. Ge, Y. Chen, C. Liu, C. Amatore, X. Wang. *RSC Adv.*, **71**, **2014**, 37790–37795.
452. Electrochemical Detection of Nitric Oxide and Peroxynitrite Anion in Microchannels at Highly Sensitive Platinum-Black Coated Electrodes: Application to ROS and RNS Mixtures prior to Biological Investigations. Y. Li, C. Sella, F. Lemaître, M. Guille Collignon, L. Thouin, C. Amatore. *Electrochim. Acta*, **144**, **2014**, 111–118.
453. Validating a Central Approximation in Theories of Regular Electrode Electrochemical Arrays of Various Common Geometries. O. Sliusarenko, A. Oleinick, I. Svir, C. Amatore. *Electroanalysis*, **27**, **2015**, 980–991. [Special Issue in honor of Richard Compton]
454. Electrochemically driven supramolecular interaction of quinones and ferrocifens: An example of redox activation of bioactive compounds. Y. G. de Paiva, F. da Rocha Ferreira, T. L. Silva, E. Labbé, O. Buriez, C. Amatore, M. O. Fonseca Goulart. *Curr. Top. Med. Chem.*, **15**, **2015**, 136–162.
455. Electrochemical conversion of dichloroacetic acid to chloroacetic acid in a microfluidic stack and in a series of microfluidic reactors. O. Scialdone, A. Galia, S. Sabatino, D. Mira, C. Amatore. *ChemElectroChem*, **2**, **2015**, 684 – 690.
456. Strong and Unexpected Effects of Diffusion Rates on Electrochemiluminescence (ECL) Generation by Amine/Transition Metal(II) Systems. I. Svir, A. Oleinick, O. V. Klymenko, C. Amatore. *ChemElectroChem*, **2**, **2015**, 811 – 818.
457. Three-Electrode Analytical and Preparative Electrochemistry in Micro-Volume Hanging Droplets. A. Isabel Perez Jimenez, L. Challier, M. Di Pisa, M. Guille-Collignon, F. Lemaitre, S. Lavielle, C. Mansuy, C. Amatore, E. Labbe, O. Buriez. *Electrochem. Commun.*, **2015**, **54**, 41–45.
458. Vesicular Exocytosis and Microdevices – Microelectrode Arrays. C. Amatore, J. Delacotte, M. Guille-Collignon, F. Lemaître. *Analyst*, **140**, **2015**, 3687–3695. [Invited Review]
459. Evaluation of photosynthetic electrons derivation by exogenous redox mediators. G. Longatte, H.Y. Fu, E. Labbe, O. Buriez, F.A. Wollman, C. Amatore, F. Rappaport, M. Guille Collignon, F. Lemaître. *Biophys. Chem.*, **2015**, **205**, 1–8.
460. Real-time Monitoring of Discrete Synaptic Release Events and Excitatory Potentials within Self-reconstructed Neuro-muscular Junctions. Y.T. Li, S.H. Zhang, X.Y. Wang, X.W. Zhang, A.I. Oleinick, I. Svir, C. Amatore, W.H. Huang. *Angew. Chem.*, **54**, **2015**, 9313–9318. (DOI: 10.1002/anie.201503801).
461. Development and Validation of an Analytical Model for Predicting Chronoamperometric Responses of Random Arrays of Micro- and Nanodisk Electrodes. O. Sliusarenko, A. Oleinick, I. Svir, C. Amatore. *ChemElectroChem*, **2**, **2015**, 1279–1291.
462. Synthesis, characterization, and biological properties of osmium-based tamoxifen derivatives. Comparison with their homologues in the iron and ruthenium series. H.Z.S. Lee, O. Buriez, F. Chau, E. Labbé, R. Ganguly, C. Amatore, G. Jaouen, A. Vessières, W.K. Leong, S. Top. *Eur. J. Inorg. Chem.*, **25**, **2015**, 4217–4226.
463. Interactions between Human Antibodies and Synthetic Conformational Peptide Epitopes: Innovative Approach for Electrochemical Detection of Biomarkers of Multiple Sclerosis at Platinum Electrodes. W. Bellagha-Chenchah, C. Sella, F. Real Fernandez, E. Peroni, F. Lolli, C. Amatore, L. Thouin, A.M. Papini. *Electrochim. Acta*, **176**, **2015**, 1239–1247.
464. *In situ* Biosynthesis of Fluorescent Platinum Nanoclusters: Towards Self-bio-imaging Guided Cancer Theranostics. D. Chen, C. Zhao, J. Ye, Q. Li, M. Su, H. Jiang, C. Amatore, X. Wang. *ACS Appl. Mat., Interf.*, **7**, **2015**, 18163–18169.
465. Electrochemical Measurements of Optogenetically Stimulated Quantal Amine Release from Single Nerve Cell Varicosities in *Drosophila* Larvae. S. Majdi, E. C. Berglund, J. Dunevall, A. I. Oleinick, C. Amatore, D. Krantz, A. G. Ewing. *Angew. Chem.*, **7**, **2015**, 13609–13612.

466. *In vivo* accurate target bio-marking of tumors through *in-situ* biosynthesized fluorescent zinc nanoclusters. M. Su, J. Ye, Q. Li, W. Ge, Y. Zhang, H. Jiang, C. Amatore, X. Wang. *RSC Adv.*, 5, **2015**, 74844-74849.
467. Theory of microwell arrays performing as generators-collectors based on a single bipolar plane electrode. A. Oleinick, J. W. Yan, B. W. Mao, I. Svir, C. Amatore. *ChemElectroChem*, 3, **2016**, 487-494. [Invited in special issue on bipolar electrochemistry]
468. Unexpected current-voltage characteristics of mechanically modulated atomic contacts with the presence of molecular junctions in an electrochemically assisted – MCBJ. Y. Yang, J.-Y. Liu, S. Feng, H.-M. Wen, J.-H. Tian, J.-T. Zheng, B. Schöllhorn, C. Amatore, Z.-N. Chen, Z.-Q. Tian. *Nano Res.*, 9, **2016**, 560-570.
469. Transient Electrochemistry: Beyond Simply Temporal Resolution. X-S. Zhou, B-W. Mao, C. Amatore, R. G. Compton, J-L. Marignier, M. Mostafavi, J-F. Nierengarten, E. Maisonhaute. *Chem. Commun.*, 52, **2016**, 251-263. [Invited Review; selected for journal cover]
470. New Theoretical Model of Neurotransmitter Release during *in vivo* Vesicular Exocytosis based on a Two-Pool Structure of Dense Core Matrixes. A. Oleinick, R. Hu, B. Ren, Z.Q. Tian, I. Svir, C. Amatore, *J. Electrochem. Soc.*, 163, **2016**, H3014-H3024. [Invited in special issue for AJ Bard; published in Open Access]
471. Multi-Chambers Microsystem for Simultaneous and Direct Electrochemical Detection of ROS and RNS Released by Cell Populations. Y. Li, A. Meunier, R. Fulcrand, C. Sella, C. Amatore, L. Thouin, F. Lemaître, M. Guille-Collignon. *Electroanalysis*, 28, **2016**, 1865-1872. (DOI: 10.1002/elan.201501157).
472. *In vivo* Target Bio-imaging of Alzheimer's Disease by Fluorescent Zinc Nanoclusters. L. Lai, C. Zhao, M. Su, X. Li, X. Liu, H. Jiang, C. Amatore, X.M. Wang. *Biomater. Sc.*, 4, **2016**, 1085-1091. (DOI: 10.1039/c6bm00233a). [Selected for journal cover]
473. On the Mechanism of Electrochemical Vesicle Cytometry: Chromaffin Cell Vesicles and Liposomes. J. Lovrić, N. Najafinobar, J. Dunevall, S. Majdi, I. Svir, A. Oleinick, C. Amatore, A.G. Ewing. *Faraday Discuss.*, 193, **2016**, 65-79. (DOI: 10.1039/C6FD00102E).
474. The Evidence for Open and Closed Exocytosis as the Primary Release Mechanism. L. Ren, L. Mellander, J. Keighron, A-S. Cans, M. Kurczy, I. Svir, A. Oleinick, C. Amatore, A.G. Ewing. *Quarter. Rev. Biophys.*, 49, **2016**, 1-27. (DOI:10.1017/S0033583516000081).
475. How "Full" is "Full Fusion" during Exocytosis from Dense Core Vesicles? Effect of SDS on "Quantal" Release and Final Fusion Pore Size. R. Hu, B. Ren, C.J. Lin, A. Oleinick, I. Svir, Z.Q. Tian, C. Amatore. *J. Electrochem. Soc.*, 163, **2016**, H853-H865. (DOI: 10.1149/2.1071609jes). [Invited; published in Open Access]
476. Revisiting the Complex of Osmocene Electro-Oxidation. F. Chau, C. Amatore, E. Labbe, O. Buriez. *Electrochim. Acta*, 212, **2016**, 973-978. (DOI: 10.1016/j.electacta.2016.07.082).
477. Enhancing Bipolar Redox Cycling Efficiency of Plane-Recessed Microelectrode Arrays by Adding a Chemically Irreversible Interferent. D. He, J.W. Yan, F. Zhu, Y. Zhou, B.W. Mao, A. Oleinick, I. Svir, C. Amatore. *Anal. Chem.*, 88, **2016**, 8535–8541. (DOI: 10.1021/acs.analchem.6b01454).
478. Theory and Simulations for the Electron Transfer/Ion Transfer Mode of SECM in the Presence or Absence of Homogenous Kinetics. A. Oleinick, Y. Yu, I. Svir, M.V. Mirkin, C. Amatore. *ChemElectroChem*, 4, **2017**, 287-295. (DOI: 10.1002/celc.201600583). [Selected for journal cover]
479. "Full Fusion" is not Ineluctable during Vesicular Exocytosis of Neurotransmitters by Endocrine Cells. A. Oleinick, I. Svir, C. Amatore. *Proc. Royal Soc. A*, 473, **2017**, 20160684 (12 p.). (DOI: 10.1098/rspa.2016.0684). [Invited research paper]
480. Molecular Electrochemistry: a Central Method to Understand the Metabolic Activation of Therapeutic Agents. The Example of Metallofufen Anti-Cancer Drug Candidates. C. Amatore, E. Labbé, O. Buriez. *Curr. Opin. Electrochem.*, 2, **2017**, 7-12. [Invited contribution]
481. Importance of Stochastic Limitations in Electrochemistry at Arrays of Nanoelectrodes Functionalized by Redox Self-Assembled Monolayers" by authors O. Sliusarenko, A. Oleinick, I. Svir, C. Amatore. *Russian J. Electrochem.*, 53, **2017**, 1019–1028. (DOI 10.1134/S1023193517090129). [Invited: Special Issue devoted to V.G. Levich on the occasion of the 100th anniversary of his birth]
482. Theory and Simulation for Optimizing Electrogenenerated Chemiluminescence from Ruthenium(II)-Doped Silica Nanoparticles and Tripropylamine. E. Daviddi, A. Oleinick, I. Svir, G. Valenti, F. Paolucci, C. Amatore. *ChemElectroChem*, 4, **2017**, 1719-1730. (DOI: 10.1002/celc.201600892). [Invited article, Special Issue on ECL]
483. Reconstruction of Distributions of Nanoparticles or Electroactive Nano-Components in Electrochemical Arrays based on Chronoamperometric Data. A. Oleinick, O. Sliusarenko, I. Svir, C. Amatore. *J. Electrochem.*, 23,

- 2017**, 141-158. (DOI: 10.13208/j.electrochem.161245). [Invited: Special Issue devoted to Prof. Zhaowu Tian on the occasion of his 90th birthday]
484. Stretchable electrochemical sensor for inducing and monitoring cell mechanotransduction in real-time. Y.L. Liu, Y. Qin, Z.H. Jin, X.-B. Hu, M.M. Chen, R. Liu, C. Amatore, W.H. Huang. *Angew. Chem.*, **56**, **2017**, 1019-1028. (DOI: 10.1002/anie.201705215).
485. Real-Time Intracellular Measurements of ROS and RNS in Living Cells with Single Core-Shell Nanowire Electrodes. X.W. Zhang, Q.F. Qiu, H. Jiang, F.L. Zhang, Y.L. Liu, C. Amatore, W.H. Huang. *Angew. Chem.*, **56**, **2017**, 12997-13000. (DOI: 10.1002/anie.201707187).
486. Direct Electrochemical Measurements of Intracellular Reactive Oxygen and Nitrogen Species in Non-Transformed and Metastatic Human Breast Cells. Y. Li, K. Hu, Y. Yu, S.A. Rotenberg, C. Amatore, M.V. Mirkin. *J. Am. Chem. Soc.* **139**, **2017**, 13055-13062. (DOI: 10.1021/jacs.7b06476).

II. Chapters and Collective Books.

1. Transferts Electroniques Homogènes et Hétérogènes par Sphères Externes. C. Amatore in "*La Bioconversion de l'Energie Solaire*" (C. Gavach, Ed.). Masson, Paris, **1981**. Chapitre 13, pp. 137-153.
2. Reactivity of Aromatic σ -Radicals in $S_{RN}1$ Reactions. *Prep. Am. Chem. Soc., Div. Pet. Chem.*, **31**, **1986**, 886-890.
3. Theoretical Considerations of Mass Transport and Kinetic Processes at Ultramicroelectrodes. C. Amatore, in "*Ultramicroelectrodes*" (M. Fleischmann, S. Pons, D. Rolinson, P.P. Schmidt, Eds.). Datatech Science, Morganton, N.C., **1987**. Chapitre 5, pp. 169-183.
4. Fast Techniques in Electrochemistry. Application to the Study of Chemical Reactivity. C. Amatore, in "*Chemical Reactivity in Liquids: Fundamental Aspects*" (M. Moreau, P. Turq, Eds.). Plenum Press, New-York, **1988**. pp.73-88.
5. Role of Termination Steps on the Efficiency of Electron Transfer Chain Catalysis. C. Amatore, A. Jutand, J.-N. Verpeaux, in "*Paramagnetic Organometallic Species in Activation, Selectivity and Catalysis*" (M. Chanon, M. Julliard, J-C. Poite, Eds.). NATO ASI Series, Ser. C, Vol. 257, Kluwer Academic Press, Dordrecht, **1989**. pp. 211-224.
6. Electrochemical Approaches for the Determination of Organometallic Reactivity. C. Amatore, in "*Journal of Organometallic Chemistry Library: Organometallic Radical Processes*" (W.C. Trogler, Ed.), Elsevier, Amsterdam, **1990**. Vol.22. Chapitre 1. pp.1-48.
7. Principles and Methods. Basic Concepts. C. Amatore, in "*Organic Electrochemistry*", (M. Baizer, H. Lund, Eds.), M. Dekker, New-York, **1991**. Chapitre 2. pp.11-119.
8. Principles and Methods. Relation Between Micro and Macro Phenomena. C. Amatore, in "*Organic Electrochemistry*", (M. Baizer, H. Lund, Eds.), M. Dekker, New-York, **1991**. Chapitre 4. pp.207-232.
9. Thermal and Photochemical Activation of Aromatic Donors by Electron Transfer. C. Amatore, J.K. Kochi, in "*Advances in Electron Transfer Chemistry*" (P.S. Mariano, Ed.), Jai Press Inc., Greenwich (CO, USA), **1991**. Vol.1, Chap.3. pp.55-148.
10. Chemical Applications of Electrochemistry at Ultramicroelectrodes. C. Amatore, in "*Microelectrodes: Theory and Applications*" (M.I. Montenegro, M.A. Queiros, J.L. Daschbach, Eds.). NATO ASI Series, Ser. E, Vol. 197, Kluwer Academic Press, Dordrecht, **1991**. pp. 269-282.
11. Unconventional Electrochemistry at Ultramicroelectrodes: New Approaches for the Investigation of Chemical Reactivity. C. Amatore, in "*Molecular Electrochemistry of Inorganic, Bioinorganic and Organometallic Compounds*" (A.J.L. Pombeiro, J. McCleverty, Eds.). NATO ASI Series, Ser. C, Vol. 385, Kluwer Academic Press, Dordrecht, **1993**, pp. 625-644.
12. CO₂ as an Organic Building Block. Mechanism of its Activation by Electron Transfer and Transition Metal Complexes. C. Amatore, A. Jutand, M.F. Nielsen, in "*Carbon Dioxide Fixation and Reduction in Biological and Model Systems*" (C.I. Branden, G. Schneider, Eds.). Oxford University Press, Oxford, **1994**. Chapitre 12, pp. 169-183.
13. Electrochemistry at Ultramicroelectrodes. C. Amatore, in "*Physical Electrochemistry: Principles, Methods and Applications*" (I. Rubinstein, Ed.), M. Dekker, New York. **1995**. Chap.4. pp.131-208.
14. Mechanistic and Kinetic Studies of Palladium Catalytic Systems. C. Amatore, A. Jutand, in "*Perspectives in Palladium Chemistry for the XXI Century*" (J. Tsuji, Ed.), Elsevier. Amsterdam. 1999. pp.254-278.
15. Principles and Methods. Basic Concepts. C. Amatore, in "*Organic Electrochemistry*", (H. Lund, O. Hammerich, Eds.), M. Dekker, New-York, **2000**. Chapitre 1. pp.1-94.
16. Principles and Methods. Relation Between Micro and Macro Phenomena. C. Amatore, in "*Organic Electrochemistry*", (H. Lund, O. Hammerich, Eds.), M. Dekker, New-York, **2000**. Chapitre 3. pp.183-205.
17. La Chimie Analytique: Mesure et Société. *Rapport sur la Science et la Technologie n°6 de l'Académie des Sciences*, (C. Amatore, Animateur et Rédacteur ; J. Dercourt : Coordonateur ; B. Blanzat : Rapporteur ; Co-rédacteurs : C. Brémard, C. Boutron, M.-F. Grenier-Loustalot, M.-C. Hennion, M. Leroy, J.-P. Mohen, P. Toulhoat, et A. Van Dorsselaer). Tech. & Doc, Paris, **2000**.

18. Structural and Mechanistic Aspects of Palladium-Catalyzed Cross-Coupling. C. Amatore, A. Jutand, in *"Handbook of Organopalladium Chemistry for Organic Synthesis"* (E.I. Negishi, Ed.). Wiley, New York, **2002**. Chapitre III.2.19, pp. 943-972.
19. Chemical reactivity of Molecular Systems in Media Organized At The Molecular Level. C. Amatore, in *"Molecular and Structural Acheology: Cosmetic and Therapeutic Chemicals"*, (G. Tsoucaris, and J. Lipkowski Eds.), NATO ASI Series, Kluwer Academic Press, Dordrecht, **2003**. pp. 123-130.
20. Electrochemistry at Ultramicroelectrodes: Small and Fast May Be Useful. C. Amatore, S. Arbault, E. Maisonhaute, S. Szunerits, L. Thouin, in *"New Trends in Molecular Electrochemistry"*, (C. Amatore, and A. Pombeiro, Eds.), FontisMedia, Lausanne, **2004**. Chapitre 12, pp. 385-411.
21. Dynamique et Caractérisations Electriques du Transport : l'Ampérométrie. C. Amatore, S. Arbault, L. Thouin, in *"Les Nanosciences: Nanobiotechnologies"*, (M. Lahmani, C. Dupas, P. Houdy, Eds.), Vol. 3, *"Nanobiotechnologies"*, Belin, Belin, Paris. **2007**, 657-682.
22. Oxidative Stress at The Single Cell Level. C. Amatore, S. Arbault, in *"Electrochemical Methods for Neurosciences"* (A.C. Michael, L.M. Borland, Eds.). Series *"Frontiers in Neuroengineering"* (S.A. Simon, M.A.L. Nicolelis, Eds.), CRC Press, Boca Raton, **2007**, pp. 261-283.
23. Electrochemistry and Supramolecular Interactions of "Ferrocifens" Anticancer Drugs with Cyclodextrins and Lipid Bilayers. An Electrochemical Overview. O. Buriez, E. Labbé, C. Amatore, in *"Advances in Organometallic Chemistry: The Silver/Gold Jubilee International Conference on Organometallic Chemistry Celebratory Book"*, (A.J.L. Pombeiro, Ed.). John Wiley & Sons, New York, **2013**, Chap. 47, pp. 633-652.
24. Electrochemical Detection of Exocytosis: a Survey from Earliest Amperometry at Carbon Fiber Ultramicroelectrodes to Recent Integrated Systems. C. Amatore, M. Guille Collignon, F. Lemaître, in *"Electrochemical Biosensors"* (S. Cosnier, Ed.). Pan Stanford Publishing, Stanford, **2015**, Chap. 1, pp. 1-52.
25. Basic Concepts. C. Amatore, in *"Organic Electrochemistry, Fifth Edition: Revised and Expanded"*, (O. Hammerich, B. Speiser, Eds.). CRC Press, Taylor & Francis Group, Boca Raton (FL, USA), **2016**, Chap. 1. pp. 3-96.
26. Relations between Micro- and Macrophenomena. C. Amatore, in *"Organic Electrochemistry, Fifth Edition: Revised and Expanded"*, (O. Hammerich, B. Speiser, Eds.). CRC Press, Taylor & Francis Group, Boca Raton (FL, USA), **2016**, Chap. 10. pp. 371-392.
27. Real Time Monitoring of Peroxynitrite by Stimulation of Macrophages with Ultramicroelectrodes. C. Amatore, M. Guille-Collignon, F. Lemaître, in *"Peroxynitrite Detection in Biological Media"*, (S. Peteu, S. Szunerits, M. Bayachou, Eds.). RSC Books, Londres, **2015**. Chap. 6. pp. 96-120.
28. Theoretical Insights in ECL. A. Oleinick, O.V. Klymenko, I. Svir, C. Amatore, in *"Luminescence in Electrochemistry: Applications in Analytical Chemistry, Physics and Biology"*, (F. Miomandre, P. Audebert, Eds.). Springer. Pp. 215-256. (DOI: 10.1007/978-3-319-49137-0_7).

III. Diffusion of Scientific Information.

1. Réactions Compétitives et Electrolyses Préparatives. Distribution des Produits et Optimisation des Rendements. C. Amatore in "*Electrochimie Préparative et Mise en Oeuvre Industrielle*". Comptes-rendus de l'Ecole de Printemps du CNRS. **1982**. pp.255-265.
2. Réactivité Chimique en Phase Liquide. Rapport de Prospective. Document collectif coordonné par S. Bratos. Editions du CNRS, Paris, **1986**.
3. En Direct du Cerveau grâce aux Ultramicroélectrodes. Une Nouvelle Génération de Capteurs in-situ. C. Amatore. *CNRS INFO N°129*, (lettre bimensuelle d'information destinée à la presse) du **15 Décembre 1986**.
4. Un Soleil dans une Cellule Electrochimique?. C. Amatore. *La Recherche*, **211**, **1989**, 816-818.
5. Fusion: Un Peu de Soleil ou un Simple Coup d'Epée dans l'Eau Froide? C. Amatore. *La Recherche*, **212**, **1989**, 914-915.
6. Les Ultramicroélectrodes: De Nouveaux Horizons pour l'Electrochimie Moléculaire? C. Amatore. *Spectra 2000*, **151**, **1990**, 43-46.
7. Ecouter Parler et Faire Parler les Molécules. C. Amatore. *ErNeSt, Le Courrier de l'Ecole Normale Supérieure*, **12**, **1993**, 3-4.
8. On Voit les Cellules Parler. C. Amatore, R.M. Wightman. *Pour La Science*, **204**, **1994**, 26.
9. Voir Parler les Cellules en Direct. C. Amatore. *CNRS INFO N°129*, (lettre bimensuelle d'information destinée à la presse) du **1er Avril 1995**. (Article repris dans *La Lettre de la Chimie du Département des Sciences Chimiques du CNRS de Juin 1995*).
10. Voir Parler les Cellules. C. Amatore. *Revue du Palais de la Découverte*, **47**, **1996**, 33-40. [Article invité dans le cadre de la Commémoration du Bicentenaire de l'Ecole Normale Supérieure].
11. L'Electrochimie, une Voie Royale d'Accès aux Mécanismes de Réactions. C. Amatore et A. Jutand. *Lettre des Sciences Chimiques du CNRS de Novembre-Décembre 1996*. (N°59, Janvier **1997**).
12. Biologie, Chimie ou Physique? Cela Fait-il une Différence au Niveau le Plus Elémentaire de la Pensée? C. Amatore, Y. Bouret et L. Midrier. *Bull. Union Phys.*, Janvier **1997**. [Article invité, numéro spécial des 90 ans du BUP].
13. Ultramicroélectrodes. Concepts Fondamentaux et Applications. C. Amatore. Rapport d'information et de prospective de la DRET. *Février 1997*.
14. Electrochimie Moléculaire et Réactivité Organique et Organométallique. C. Amatore, A. Jutand, L. Thouin, J.-N. Verpeaux. *L'Actualité Chimique. Août-Septembre 1998*, 43-62. [Numéro Spécial sur l'Electrochimie Organique, partie I].
15. Ultramicroélectrodes : leurs Propriétés Fondamentales et leur Utilisation comme Synapses Semi-Artificielles. C. Amatore. *L'Actualité Chimique. Octobre 1998*, 87-90. [Numéro Spécial sur l'Electrochimie Organique, partie II].
16. Physicochimie Dynamique de l'Exocytose Vésiculaire de Neurotransmetteurs. C. Amatore, S. Arbault, Y. Bouret, M. Erard. *La Jaune et la Rouge*, **572**, **2002**, 30-36. [Article invité : Revue de l'Ecole Polytechnique, Numéro Spécial sur la Chimie à l'X].
17. L'électrochimie moléculaire portée à ses limites: des cinétiques nanosecondes à l'exploration dynamique d'objets nanométriques. C. Amatore, E. Maisonhaute, B. Schöllhorn. *L'Actualité Chimique. N°320-321. Juin-Juillet 2008*, 69-74. [Article Invité. Numéro Spécial sur le Prof. Jacques-Emile Dubois].
18. Synapses Artificielles et Stress Oxydant. C. Amatore, S. Arbault, M. Guille, F. Lemaître. *L'Actualité Chimique. N° 348-349. Janvier-Février 2011*, 25-31. [Article Invité. Numéro Spécial "La chimie prépare notre avenir"].
19. Libération des neurotransmetteurs : une nouvelle porte s'ouvre. C. Amatore, I. Svir et A. Oleinick. *En direct des laboratoires de l'institut de Chimie (communiqué de presse du 30 janvier 2017)*. http://www.cnrs.fr/inc/communication/direct_labos/amatore.htm

IV. Patents.

1. Matériau pour l'Optique Non Linéaire. J.F. Fauvarque, C. Amatore, A. Jutand. Fr. Patent **1988** (*Compagnie Générale d'Electricité*). BF 88/10372. Brevet International 89909002.1
2. Matériau pour l'Optique Non Linéaire. J.F. Fauvarque, V. Ratovelomanana, A. Jutand, C. Amatore. Fr. Patent **1988** (*Compagnie Générale d'Electricité*). BF 88/10373. Brevet International 89909205.0
3. Matériau Organique pour l'Optique Non Linéaire et les Dispositifs Electro-optiques. J.F. Fauvarque, C. Amatore, A. Jutand, S. Negri. Fr. Patent **1989** (*Compagnie Générale d'Electricité*). BF 89/14062.
4. Procédé d'Utilisation de Complexes de Métaux de Transition pour la Séparation du Dioxygène d'un Mélange de Gaz par Electrodecomplexation. C. Amatore, S. Aziz, A. Jutand, F. Draskovic, K. Yamagushi, P. Cocolios. Fr. Demande **1990** (*l'Air Liquide*). BF 90/03886. Extension internationale limitée aux pays suivants: Afrique du Sud, Australie, Canada, CEE, Etats-Unis, Japon, Suisse.
5. Dispositif et procédé électrochimiques de mesure de l'état redox de la peau. S. Arbault, C. Pebay, C. Amatore, N. Lachmann-Weber, C. Heusele, I. Renimel I. Fr. Demande **2005** (*LVMH Recherche, ENS et CNRS*) n° BF 05/13339, déposée le 26 décembre 2005.
6. Method and Apparatus for the Detection or Quantification, or both, of at Least One Analyte in a Sample. C. Amatore, L. Thouin, C. Sella, C. Pebay, I. Svir, O. Oliynyk, N. Da Mota. Demande déposée à l'INPI (août 2011 ; référence : PCT/EP2011/063573).

List of Conferences, Communications and Seminars

(December 2017)

A. Distinguished Lectures (in Honor of Distinctions or Named Lectures)

1. CO₂ as an Organic Building Block. Mechanism of its Activation by Electron Transfer and Nickel Complexes. *Nobel Symposium. Royal Swedish Academy of Sciences. Stockholm. Décembre 1991.*
2. Cinétique et Chronomètres Diffusionnels. *Médailles d'Argent 1993 du CNRS. CNRS Paris. Avril 1994.*
3. Exocytose Vésiculaire : Apport de l'Electrochimie Analytique Moléculaire. *Présentation des Membres et Correspondants élus en 1996. Institut de France, Académie des Sciences. Paris. Novembre 1996.*
4. Nanosecond Time Scale Electrochemistry and Other Applications of Ultramicroelectrodes. *JSPS Distinguished Lecturer, Okayama (Japon). Septembre 1997.*
5. Electrochemistry and Organometallic Catalysis of Organic Reactions. *JSPS Distinguished Lecturer, Okayama (Japon). Septembre 1997.*
6. Biological Applications of Ultramicroelectrodes: Investigations at the Single Cell Level in Neurobiology and Oxidative Stress. *JSPS Distinguished Lecturer, Okayama (Japon). Septembre 1997.*
7. Monitoring Single Cell Release. Application to Oxidative Stress and AIDS. *1997 SACP and SSP Distinguished Lecturer. Pennsylvania State University. Avril 1997.*
8. Electrochemistry and Homogeneous Catalysis by Transition Metal Complexes. *1997 SACP and SSP Distinguished Lecturer. Pennsylvania State University. Avril 1997.*
9. Artificial Synapses Based on Ultramicroelectrodes : Application to the Mechanism of Vesicular Release from Single Cells. *Twentieth Annual Pittsburgh Conference Lecturer, University of Pittsburgh (USA). Avril 2000.*
10. Electrochemistry at Ultramicroelectrodes : New Opportunities for New Challenges. *Twentieth Annual Pittsburgh Conference Lecturer, University of Pittsburgh (USA). Avril 2000.*
11. Palladium Catalysis : Are « Well Known » Mechanisms so Well Known ? *Twentieth Annual Pittsburgh Conference Lecturer, University of Pittsburgh (USA). Avril 2000.*
12. Artificial synapses based on ultramicroelectrodes : Application to the mechanism of vesicular release from single cells. *2000-2001 Debye Lecturer, Cornell University. Avril 2001.*
13. Electrochemistry at ultramicroelectrodes : New opportunities for new challenges . *2000-2001 Debye Lecturer, Cornell University. Avril 2001.*
14. Palladium Catalysis: Are “Well Known” mechanisms so Well Known?. *2000-2001 Debye Lecturer, Cornell University. Avril 2001.*
15. Oxidative Stress at the Single Cell Level: Warfare Strategies Among Aerobic Cells. *2001 Reilley Award, Pittsburgh Conference (PittCon). Mars 2002.*
16. Stress oxydatif et radicaux libres : stratégies guerrières chez les cellules vivantes. *Conférence Annuelle de l'Institut Français de Budapest, Hongrie. Septembre 2002.*
17. Lo stress Ossidativo : strategie di combattimento delle cellule viventi. *Conferenza dell'Università degli Studi di Roma « La Sapienza ». Novembre 2002.*
18. Voir les cellules vivantes vivre : Applications biologiques des ultramicroélectrodes. *Conférence Paul Sabatier, Toulouse. Janvier 2003*
19. Détection et analyse d'un stress oxydatif à l'échelle d'une cellule unique. *Conférence d'Alembert, ENS Cachan. Mars 2003.*
20. Amperometric Measurement of Vesicular Exocytosis of Neurotransmitters: Deciphering its Biological and Physicochemical Meaning. *The Annual Lecture of The Danish Electrochemical Society. Copenhagen. Octobre 2003.*

21. Electrochemistry at Ultramicroelectrodes. *ECNU Honorary Professorship Conference*, East China Normal University, Shanghai. **Mars 2004**.
22. Single Cell Investigations. *Nanqiang Lecturer*, University Amoiensis, Xiamen, China. **Juin 2004**.
23. Artificial Synapses Based on Ultramicroelectrodes. *Wuhan Guest Professorship Conference*, Wuhan University, China. **Juin 2004**.
24. Single Cell Physico-Chemical Studies of Neurotransmission. *Distinguished LMS Lectureship*, Caltech, Pasadena. **Janvier 2005**.
25. Ultramicroelectrodes: Small and beautiful may be useful. Part I. Electrochemistry within molecules. *Hinselwood Lectures 2005*, Oxford. **Avril 2005**.
26. Probing cellular metabolism and communication at the single cell level. Part I. Evidencing the delicate interplay between biology, polyelectrode swelling and membrane dynamics during the release of neurotransmitters. *Hinselwood Lectures 2005*, Oxford. **Avril 2005**.
27. Ultramicroelectrodes: Small and beautiful may be useful. Part II Towards nanosensors and integrated devices for microfluidics. *Hinselwood Lectures 2005*, Oxford. **Avril 2005**.
28. Probing cellular metabolism and communication at the single cell level. Part III. Oxidative stress: monitoring individual oxidative stress bursts towards applications to auto-immune diseases. *Hinselwood Lectures 2005*, Oxford. **Mai 2005**.
29. Monitoring mechanistic aspects of molecular homogeneous organometallic catalysis with electrochemistry: are “well-known” mechanisms of catalysis so “well-known”? *Hinselwood Lectures 2005*, Oxford. **Mai 2005**.
30. Probing cellular metabolism and communication at the single cell level. Part II. Oxidative stress: from life regulation to warfare strategies in aerobics cells. *Hinselwood Lectures 2005*, Oxford. **Mai 2005**.
31. Physicochemical aspects of adrenalin release by single chromaffin cells. *The Welch Foundation Conference*, Houston. **Octobre 2005**.
32. Vedere le Cellule Parlare: Esocitosi di Neurotrasmettitori. *Conferenza Louis de Broglie; Accademia Nazionale dei Lincei*. **Mars 2006**.
33. Exocytosis, Oxydative Stress and Brain. *Bourke Medal Lecture*, Warwick. **Octobre 2006**.
34. Intimate Coupling Between neuronal Activity and NO^o release in Brain. *Bourke Medal Lecture*, Imperial College, Londres. **Octobre 2006**.
35. Seeing Electron Transfer Communication Within Molecules: Megavolt per second Voltammetry. *Bourke Medal Lecture*, Southampton. **Octobre 2006**.
36. Neurovascular Coupling Between Neuronal Activity and Blood Delivery in Brain using Ultramicroelectrodes. *Rovira I Virgili Lecture*. Tarragone. **Septembre 2006**.
37. Indagine sull'accoppiamento neurovascolare tra attività neuronale e afflusso di sangue nel cervello per mezzo di ultramicroelettrodi. *Galvani Medal Lecture*. GEI ERA 2007. Cagliari, Sardegna. **Juillet 2007**.
38. Neurovascular Coupling Between Neuronal Activity and Blood Delivery in Brain. *Faraday Medal Lecture*. Electrochem 07. Londres, Grande-Bretagne. **Septembre 2007**.
39. Ultramicroelectrodes : Seeing and Understanding Exocytosis. *Lecture inaugurale du World Premier Initiative Institute iCeMS*. Kyoto, Japon. **Février 2008**.
40. Seeing Electron Transfer in Molecular Wires by Ultrafast Voltammetry. *Durham Lecturer 2008*. Durham, Grande-Bretagne. **Juin 2008**.
41. Neuronal Activity and Blood Delivery in Brain: Interplay between Neurotransmission and Oxidative Stress. *Durham Lecturer 2008*. Durham, Grande-Bretagne. **Juin 2008**.
42. Medicinal Properties of Ancient Egyptian Make-up Revealed by Ultramicroelectrochemistry. *Durham Lecturer 2008*. Durham, Grande-Bretagne. **Juin 2008**.
43. Bad and Good Aspects of Oxidative Stress in Aerobic. *Durham Lecturer 2008*. Durham, Grande-Bretagne. **Juin 2008**.

44. Vesicular Exocytosis Mechanisms as Revealed by Amperometry at Ultramicroelectrodes. *Inter-Department Distinguished Lecture*. Memphis (USA). **Février 2008**.
45. La première Industrie Chimique: Propriétés Médicales du Fard Noir Egyptien Mises en Evidence par la Micro-Bioélectrochimie. *Académie des Sciences de Roumanie*. Bucarest (Roumanie). **Novembre 2009**.
46. Fine Tuning Between Neuronal Activity and Oxidative Stress in the Brain: A Study Based on Ultramicroelectrodes. *In Honor of Honorary Fellowship of The Chinese Chemical Society Award*. Institute of Nanosciences of the Chinese Academy of Sciences. Pékin (Chine). **Décembre 2009**.
47. L'électron, de Faraday au Stress Oxydatif Cellulaire. *International Year of Chemistry*. Lyon, La Doua Campus. **Mars 2011**.
48. Des Ultramicroélectrodes à Cléopâtre. *International Year of Chemistry*. Paris, Pierre and Marie Curie University. **Mars 2011**.
49. Finding Out Egyptian Gods' Secret with MicroElectrochemical Sensors: *Biomedical Properties of Egyptian Black Makeup Revealed by Microamperometry at Single Cell Level*. *Opening Lecture in honor of International Year of Chemistry*. International Society of Electrochemistry. Turku (Finland). **Mai 2011**.
50. Electrochemistry: from Chemical Reactivity to Biology. *In response to the Award of Honorary Fellowship by The Royal Chemical Society Award*. Royal Society. Londres. **Juillet 2011**.
51. Coupling Amperometry and Total Internal Reflection Fluorescence Microscopy for Monitoring Exocytosis of Single Vesicles. *Opening Lecture of ASIANALYSIS XI*. Nanjing (Chine). **Août 2011**.
52. Coupling Amperometry and Total Internal Reflection Fluorescence Microscopy for Monitoring Exocytosis of Single Vesicles. *Opening Lecture of the BCEIA*. Beijing (Chine). **Novembre 2011**.
53. Investigation of Oxidative Stress at Single Cells with Ultramicroelectrodes: a New Platform for Drug Testing. *Opening Lecture of BIT-Nanomedicine*. Shenzen (Chine). **Août 2011**.
54. Cosmétiques de l'Egypte Antique : Simple Magie ou Véritable Prophylaxie anti-Bactérienne ? Conférence Benezra-Kern. Université de Strasbourg. **Janvier 2012**.
55. Monitoring Exocytosis of Single Vesicles by Amperometry and by Total Internal Reflection Fluorescence Microscopy. *Opening Lecture of The 22nd Anniversary World Congress on Biosensors*. Cancun (Mexique). **Mai 2012**.
56. Monitoring the Fine Coupling Between Neuronal Activity and Hyperaemia in Brain. *Opening Address of Monitoring Molecules in Neuroscience*. Royal Geographical Society, Londres (UK). **Septembre 2012**.
57. Neurovascular Coupling Between Neuronal Activity and Blood Delivery in the Brain. *Distinguished Lecture*. Nanjing South East University (Chine). **Novembre 2012**.
58. Fine Tuning Between Neuronal Activity and Oxidative Stress in Brain: a Study Based on Ultramicroelectrodes. *Centennial Lecture*. University of Austin (USA). **Février 2013**.
59. New techniques in electrochemistry for understanding the brain: Oxidative Stress and Vesicular Release of Neurotransmitters. The International Lecture of the Royal Society. Royal Society, Londres (GB). **Mai 2013**.
60. Neurotransmission and Oxidative Stress: Seeing the Brain Working with Ultramicroelectrodes. The Annual Distinguished Lecture of the Wuhan University of Sciences and Technology (HUST), Chine. **Octobre 2013**.
61. Neurotransmission et Stress Oxydatif, ou comment notre Cerveau Gère-t-il ses Besoins Instantanés d'Energie? Les Conférences de l'Académie des Sciences de l'Université Paris 13, **Mars 2014**.
62. Is there a Link between Hyperemia and Alzheimer Disease when Amyloid-beta is Present in Brain? Forum sur l'Innovation de l'Ambassade de Chine à Paris, **Avril 2014**.
63. Palladium Catalyzed Cross-Coupling Reactions: A Few Mechanistic Truths beyond a Nobel Prize. Distinguished Scholar Conferences, University of Bologna (Italy), **Avril 2014**.
64. Mechanism of Brain Vascularization: Coupling Between Oxidative Stress and Neurotransmission as Investigated by Ultramicroelectrodes. Special Lecture for Reception as Foreign Member of the Chinese Academy of Sciences. Chinese Academy of Sciences, Beijing, **Avril 2014**.
65. Seeing, Monitoring, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters with Ultramicroelectrodes. Brdicka Lecture, Institute Heyrovsky, Prague. **Juin 2014**.

66. Seeing, Monitoring, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters with Ultramicroelectrodes. Distinguished Lecture of the Hubei Province, Wuhan (Chine). **Novembre 2014**.
67. Trucchi Neri dell' Egitto Antico : Da un Mito Dubbio ad una Realtà Scientifica Molto Moderna. Conférence Distinguée de l'Université de Palerme. Palerme (Italie). **Mai 2015**.
68. Seeing, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters. G.F. Smith Distinguished Lecture 2015. Urbana Champaign (USA). **Septembre 2015**.
69. Palladium Catalyzed Cross-Coupling Reactions: *A Few Mechanistic Truths beyond a Nobel Prize*. G.F. Smith Distinguished Lecture 2015. Urbana Champaign (USA). **Septembre 2015**.
70. Vesicular Exocytosis of Neurotransmitters. Distinguished J. Heyrovsky Lecture, Czech Academy of Sciences and Charles University, Prague. **Decembre 2015**.
71. Seeing, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters with "Artificial Synapses". Distinguished Lecture ECS-Indiana Chapter, Bloomington, Indiana (USA). **Mars 2016**.
72. Investigating Vesicular Exocytosis of Neurotransmitters with "Artificial Synapses". Joint CNRS-ICCAS Distinguished Lecture for the 'Year of CNRS in China'. Chinese Academy of Sciences, Beijing (China). **Mars 2016**.
73. Finding Out Egyptian Gods' Secret Using Micro-Analytical Chemistry: Biomedical Properties of Egyptian Black Makeup Revealed by Microamperometry at Single Cells. The 2016 Odd Hassel Distinguished Lecture. University of Oslo, Oslo (Norway). **Mai 2016**.
74. Seeing, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters with "Artificial Synapses". The Electrochemical Society Opening Plenary Lecture. 229th ECS Meeting, San Diego, California (USA). **Mai 2016**.
75. Alzheimer Disease and Oxidative Stress. The 2016 iNANO Distinguished Lecture. Aarhus University, Aarhus (Danemark). **September 2016**.
76. Alzheimer and Oxidative Stress: Thou Shalt not Breathe nor Think! The Volta Medal Lecture. ECS PRiME Joint Meeting (ECS, Japan Electrochemical Society, Korean Electrochemical Society, Chinese Electrochemical Society). Honolulu, Hawaii (USA). **October 2016**.
77. Observing, Quantifying and Understanding Vesicular Exocytosis of Neurotransmitters with Micro- and Nanoelectrodes. Opening Lecture of The 25th Anniversary of CIDETEQ Foundation. Queretaro (Mexico). **October 2016**.
78. Palladium Catalyzed Cross-Coupling Reactions: *A Few Mechanistic Truths beyond a Nobel Prize*. C. Amatore. Institut Catala d'Investigacio Quimica (ICIQ) Distinguished Lectures Series. Tarragona (Spain). **November 2016**.
79. Origine de la Vie : un Hasard (Géo)Chimique Inéluctable ? Colloque Inter Academique sur « Le Sens De La Vie ». Fondation Singer Polignac & Institut de France. Paris. **February 2017**.
80. Seeing, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters with Micro- and Nanoelectrodes. The First 2017 Knight Lecture. University of Akron, Akron, Ohio, USA. **April 2017**.
81. Cellular Oxidative Stress, Hyperemia and their Implications in Alzheimer Disease. The Second 2017 Knight Lecture. University of Akron, Akron, USA. **April 2017**.
81. From Physicochemical Electrochemistry to Bioelectroanalytical Methods at the Single Cell Level. In honor of Doctor Honoris Causa reception. University of Bucarest, Bucarest, Romania. **May 2017**.
82. Observing, Quantifying and Understanding Vesicular Exocytosis with Micro- and Nanoelectrodes. Opening Honor Lecture. XXIV International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society. Lyon, France. **July 2017**.
83. History of a Passion and of a Long Courtship: From the Brain to the "Artificial Synapse". Thanking Lecture in the "Brain Symposium in Honor of Amatore and Wightman Scientific Achievements". 232nd Meeting of the Electrochemical Society. Plenary Lecture. New Harbor, USA. **October 2017**.
84. Oxidative Stress: from Life Sustainability to Life Unsustainability: from Blood Regulation in Brain to Alzheimer Disease. 2017 Summit on Sustainable Industrial Processing (SIPS). Distinguished Lecture. Cancun, Mexico. **October 2017**.

B. Plenaries and Opening Lectures Invited in Major Conferences

1. Substitutions Oxydantes par Transfert d'Electron en Série Aromatique. C. AMATORE, J.K. Kochi, C.S. Schlesener. *Premier Congrès National de la Société Française de Chimie. Nancy. Septembre 1984.*
2. Ultramicroelectrode: Una via verso La Terra Promessa degli Elettrochimici? *Giornate di Elettroanalitica ed Elettrochimica (Società Chimica Italiana; Divisioni di Chimica Analitica e di Elettrochimica). L'Aquila. Juin-Juillet 1988.*
3. Ultramicroélectrodes: Une Voie vers la Terre Promise des Electrochimistes? *Journées d'Electrochimie 89. Montpellier. Mai-Juin 1989.*
4. Electron Transfer Activation of Transition Metal in the Catalysis of Organosynthetic Reactions. An Electrochemical Approach. *32nd IUPAC Congress. Stockholm. Août 1989.*
5. Fast Techniques in Electrochemistry. An Easy Access to the Nanosecond Timescale. *V Encontro da Sociedade Portuguesa de Electroquímica. Aveiro (Portugal). Avril 1991.*
6. Studio Elettrochimico dei Meccanismi di Dimerizzazione e Carbossilazione di Alogenuri Aromatici Catalizzate da Complessi di Nichel in Condizioni Riduttive. *Società Chimica Italiana. Giornate dell'Elettrochimica Italiana. Modène. Settembre 1991.*
7. Ten Years of Ultramicroelectrodes: Where Are We Now? *4th European Conference on Electroanalysis. Noordwijkerhout (Pays-Bas). Mai-Juin 1992.*
8. Dieci Anni di Ultramicroelettrodi: Dove Siamo Arrivati? *Conference d'Ouverture du : Convegno Nazionale di Chimica Analitica (Divisione di Chimica Analitica della Società Chimica Italiana). Pavie (Italie). Settembre 1992.*
9. Electrochemistry and Organometallic Catalysis: A True Love Affair? *Congrès de la Société Chimique Canadienne. Sherbrooke (Québec). Juin 1993.*
10. Electrochemical Investigation of Palladium Catalyzed Organic Reaction. *Congrès de la Société Chimique Japonaise. Kobe. Septembre 1993.*
11. Chimica Computazionale e Diffusione-Reazione in Elettrochimica con Ultramicroelettrodi. *Conferenza di Chimica Computazionale. Bologne. Février 1994.*
12. Electrochemistry and Organometallic Catalysis. *International Conference on Reaction Mechanisms. South Bend (USA). Juin 1994.*
13. Ultramicroelectrodes: What's New Upon Going Smaller and Smaller? *International Society of Electrochemistry. Porto. Août 1995.*
14. Unconventional Electrochemistry using Ultramicroelectrodes: Monitoring Neurotransmitter Release at Individual Living Cells. *7as Jornadas de Analisis Instrumental. Madrid. Avril 1995.*
15. Applicazioni Biologiche di Ultramicroelettrodi. *XII Congresso Nazionale di Chimica Analitica. Parme. Settembre 1995.*
16. Applications Neurobiologiques des Ultramicroélectrodes Utilisées Comme Synapses Semi-Artificielles. *RECOB VI. Les Houches. Avril 1996.*
17. Mesure de la Dynamique de Processus d'Exocytose au Niveau d'Une Seule Cellule Vivante. *Physique et Chimie du Vivant. Colloque Fondateur. Strasbourg. Décembre 1996.*
18. Ultramicroelectrodes As Artificial Synapses: Probing Living Cells in Relationship with Oxidative Stress and AIDS. *Fischer Symposium: Scales in Electrochemical Systems, From Ångströms to Meters. Karlsruhe. Juin 1997.*
19. Physico-Chemical Roots of Vesicular Exocytotic Events. *25th IUPAC International Conference on Solution Chemistry. Bruxelles. Septembre 1997.*
20. Elettrochimica e Catalisi Organometallica . *Alessandria (Italie). Settembre 1997.*
21. Electron Transfer Activation of Transition Metal Complexes and Catalysis. *Las Vegas. Settembre 1997.*
22. Detection of Chemical Messengers Secreted by a Single Cell by Means of Artificial Synapses based on Ultramicroelectrodes. *Drug Analysis '98. Bruxelles. Mai 1998.*
23. Electrochemistry and Generation of Free Radicals: Biasing the Game Between One and Two-Electron Processes. *Euchem Conference on « Organic Free Radicals ». Rome. Juillet 1998.*

24. Application of Electrochemistry at Ultramicroelectrodes for the Investigation of Inorganic Reactivity. *Electrochemistry: Long- and Short-Lived Intermediates in Coordination and Organometallic Compounds. Sienne. Septembre 1998.*
25. From Galvani's Frog to Single Cells: Analysis of Individual Biochemical Events with Ultramicroelectrodes. *GEI-98 Luigi Galvani Anniversary Meeting. Bologne. 23-26 septembre 1998.*
26. Applications des Synapses Artificielles à la Mesure d'Emissions Cellulaires à l'Echelle d'une Dizaine de Milliers de Molécules. *VII^o Colloque National du Groupe Français de Bioélectrochimie. Céret. Mars 1999.*
27. Analysis of Individual Biochemical Events with Ultramicroelectrodes. *XI Simposio Brasileiro de Eletroquímica e Eletroanalítica. Maragogi (Brésil). Avril 1999.*
28. Ultramicroélectrodes et Synapses Artificielles: Mécanismes de Sécrétion de Neurotransmetteurs. *Journées d'Electrochimie 1999. Toulouse. Juin 1999.*
29. Ultramicroelectrodes: New Frontiers and New Problems. *XIIIth FECHEM Conference on Organometallic Chemistry. Lisbonne. Août-Septembre 1999.*
30. Artificial synapses : detection and analysis of individual exocytotic cellular events with ulltramicroelectrodes. *2nd France-Israel Workshop on Bioanalytical Sensors, Biochips and Nanobiotechnology, Autrans. Décembre 2000.*
31. Oxidative stress at the single cell level: Warfare strategies among aerobic cells. *IS-DET, Symposium of Electroorganic Chemistry, Okayama, Japon. Juin 2002.*
32. Oxidative stress at the single cell level: warfare strategies among aerobic cells. *Institute Day at the Ben-Gurion University of the Negev, Beer Sheva, Israël. Octobre 2002.*
33. Voir les cellules parler : Exocytose de neurotransmetteurs. *Journée de l'Institut Nancéien de Chimie Moléculaire. Janvier 2003.*
34. Electrochemical monitoring of exocytosis: Can we decipher what it really means? *Pittcon 2003, Orlando, Floride. Mars 2003.*
35. Palladium Catalysis : Are « Well-Known » Mechanisms So Well Known? *11th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis (ISHHC-11). Evanston, Illinois. Juillet 2003.*
36. Electrochemistry within molecules using ultrafast cyclic voltammetry. *XII Meeting of the Portuguese Electrochemical Society. Lisbonne. Septembre 2003.*
37. Palladium Catalysis : Are « Well-Known » Mechanisms So Well Known? *4th International School of Organometallic Chemistry. Camerino, Italie. Septembre 2003.*
38. Deciphering the Biological and Physicochemical Meaning of Exocytosis. *3rd France-Israel Workshop on Biosensors, Biochips and Nanobiotechnology, Beer-Sheva, Israël. Novembre 2003.*
39. Exocytosis of adrenalin at the single cell level: delicate interplay between membrane dynamics and matrix swelling. *Workshop Perspectives in Electrochemistry of Complex Systems. Modena, Department of Chemistry – SCS Center. Avril 2004.*
40. Amperometric Measurement of Vesicular Exocytosis of Neurotransmitters: Deciphering its Biological and Physicochemical Meaning. *3rd Croatian Symposium on Electrochemistry, Dubrovnik, Croatie. Mai-Juin 2004.*
41. Oxidative Stress among Aerobic Cells: From Life Regulation to Warfare Strategies. *2nd France-China Workshop on Surface Electrochemistry of Molecules of Biological Interest. Biosensor Applications. Céret. Octobre 2004.*
42. Oxidative Stress at the Single Cell Level: Warfare Strategies Among Aerobic Cells. *Sino-French Symposium for Advanced Chemistry and its Applications. Xiamen, Chine. Octobre 2004.*
43. Dynamique de l'exocytose vésiculaire de neurotransmetteurs dans les cellules chromaffines. *Colloque des Neurosciences, Lille. Mai 2005.*
44. Analyses Physicochimiques sur Cellules Vivantes Isolées : Neurotransmission et Stress Oxydatif. *Journées scientifiques SFC de Bretagne-Pays de Loire, Batz-sur-Mer. Mai 2005.*
45. Exocytosis of neurotransmitters: a delicate interplay between diffusion, polyelectrolyte swelling and membrane dynamics. *Physical-Chemical Foundations of high Technologies of XXIst Century, Moscou. Mai-Juin 2005.*
46. Electrochemistry within Molecules using Ultrafast Cyclic Voltammetry. *ESOR 10, Rome. Juillet 2005.*

47. Physicochemical aspects of neurotransmission: release by single chromaffin cells. *AC&CA-05 (Analytical Chemistry and Chemical Analysis)*, Kiev. **Septembre 2005**.
48. Monitoring neurotransmission and integrated coupling in brain. *The Tenth International Seminar on Electroanalytical Chemistry (10th ISEC)*, Changchun. **Octobre 2005**.
49. Electrochemistry within molecules using ultrafast cyclic voltammetry. *The Eleventh International Beijing Conference and Exhibition on Instrumental Analysis (11th BCEIA)*, Beijing. **Octobre 2005**.
50. Ultramicroelectrodes and Biology of the Living Cell and the Living Tissue. *13th National Conference on Electrochemistry of China, Chine*. **Novembre 2005**.
51. Ultrafast Voltammetry in Molecular Electrochemistry : Voltammetry Within Molecules. Tilden Lecturer, Prof. R. G. Compton, New Perspectives in Voltammetry. University of Oxford. **Avril 2006**.
52. Physicochimie Analytique et Sciences du Patrimoine. Erice **Juin 2006**.
53. Electrochemistry within Molecules. 2nd ECHEMS Meeting « Electrochemistry in Surface Modification », La Palma (Les Canaries). **Juin 2006**.
54. Electrochemistry within Molecules. ISBOMC'06. **Juillet 2006**.
55. Electrochemistry Within Molecules. 2nd Erlangen Symposium on Redox-Active Metal Complexes-Control of Reactivity via Molecular Architecture, Erlangen, Germany. **Octobre 2006**.
56. Electrochemistry at Mega Volts per Second : Seeing Electronic Communication within Molecules. ISOETC-2007, Yokohama, Japon. **Janvier 2007**.
58. Electrochemistry at MegaVolts per Second: Seeing Electronic Communications Within Molecules. XVI Brazilian Symposium of Electrochemistry and Electroanalysis (XVIe SIBEE), Aguas de Lioñoia, Brésil. **Avril 2007**.
59. Ultramicroelectrodes and biology of the living cells and living tissues: “good” and “bad” sides of oxidative stress. Modern Physical Chemistry for Advanced Materials devoted to the 100th anniversary of the birth of Prof. Nikolai Izmailov. Kharhov, Ukraine. **Juin 2007**.
60. Ultramicroelectrodes and Biology of the Living Cell and Living Tissues. 11th ISEC; Changchun, Chine. **Août 2007**.
61. Electrochemistry Within Molecules: Seeing Intramolecular Electronic Communication. Electrochemistry and Self-Assembly for Nanomaterials Science. FUNDP, Namur, Belgique. **Août 2007**.
62. Investigation of concentration profiles near an active electrode surface. BCEIA 2007, Beijing (Chine). **Octobre 2007**.
63. Detection of Oxygen and Nitrogen activated species during oxidative stress by single human cells as detected at ultramicroelectrodes. The Chinese Echem Conference, Yangzhou University, Yangzhou (Chine). **Novembre 2007**.
62. Seeing Electron Communication *INSIDE* Molecules. Bunsen Colloquium Roggenburg, Germany. **Décembre 2007**.
63. Intramolecular Electronic Communication Within Molecules: seeing it and using it. Symposium du Reilley Award de la SEAC. PittCon'08, Nouvelle-Orléans. USA. **Mars 2008**.
64. Medicinal Properties of Ancient Egyptian Make-up. Symposium Art, Archeology, Heritage and Analytical Sciences. PittCon'08, Nouvelle-Orléans. USA. **Mars 2008**.
65. Couplage Neurovasculaire dans le Cerveau: Neurotransmission et Stress Oxydatif. Métalloprotéines et Modèles. Fréjus. **Mars 2008**.
66. Medicinal Properties of Ancient Egyptian Make-up Revealed by Ultramicroelectrochemistry. First International Conference on Thin Films and Porous Materials. Alger. **Mai 2008**.
67. Electrochemical-Driven Release of Cations with controlled temporal and spatial resolution. EUCHEMS. Camaret-sur-Mer, Finistère. **Juin 2008**.
68. Neurovascular Coupling Between Neuronal Activity and Blood Delivery in Brain. 5th Workshop on Scanning Electrochemical Microscopy. Blue Mountain Lake, USA. **Août 2008**.

69. Single Cell Behavior as Investigated by Amperometry at Ultramicroelectrodes. Plenary Lecture. iCeMS International Symposium, Kyoto (Japan). **17-23 Février 2008.**
70. Vesicular Exocytosis Mechanisms as Revealed by Amperometry at Ultramicroelectrodes. Inter-Department Distinguished Lecture. Memphis (USA). **27-29 Février 2008.**
71. Seeing Electrons Hopping through Molecules. Plenary Lecture. Pittcon 2008, New Orleans (USA). **1-7 Mars 2008.**
72. Art, Cosmetics and Medicine in Ancient Eras: The Analytical Chemist's View. Plenary Lecture. Pittcon 2008, New Orleans (USA). **1-7 Mars 2008.**
73. Couplage entre Neurotransmission et Stress Oxydatif dans le Cerveau. Plenary Lecture. Congrès annuel du groupe « Métalloprotéines et Modèles ». Fréjus. **16-19 Mars 2008.**
74. Art, Cosmetics and Medicine in Ancient Eras. First International Conference on Solid State Surfaces. Plenary Lecture. Alger 2008. **19-22 Mai 2008.**
75. Neurovascular Coupling Between Neuronal Activity and Blood Delivery in Brain. Plenary Lecture. 59th ISE Annual Meeting, Séville, Espagne. **7-12 Septembre 2008.**
76. The first bioengineering craft: Medicinal properties of Egyptian make-up revealed by microelectrochemistry. Plenary Lecture. Bioengineering 08, Imperial College, Londres. **18-19 Septembre 2008.**
77. Un nouveau regard nano(micro)scopique sur la cosmétique égyptienne. Plenary Lecture. Université Libre de Bruxelles. **8 Octobre 2008.**
78. Neurovascular Coupling: a Fine Tuning Between Neuronal Activity and Oxidative Stress in Brain. Plenary Lecture. Université Libre de Bruxelles, Solvay Colloquium. **16 Décembre 2008.**
79. Chimie analytique, Art et Patrimoine : vers une vision commune. Plenary Lecture. Maison de la Chimie, Colloque « Chimie & Art ». **28 Janvier 2009.**
80. Hyperemia in the Brain as Investigated by Ultramicroelectrodes: Coupling Between Oxidative Stress and Neurotransmission. Plenary Lecture. 5th Aarhus Winter Meeting. **30 janvier 2009.**
81. Seeing Electron Communication Inside Molecules By Ultrafast Cyclic Voltammetry. Plenary Lecture. IIIeme Colloque Electrochimie dans les Nanosciences, Paris. **21-22 Avril 2009.**
82. The first bioengineering craft: Medecinal properties of Egyptian make-up revealed by microelectrochemistry. Plenary Lecture. 12th ISEC, Changchun, Chine, 12-15 **Août 2009.**
83. The first chemical industry: Medecinal properties of Egyptian make-up revealed by nanobioelectrochemistry and synchrotron. Plenary Lecture. International Symposium on Nanoelectrochemistry and Spectroelectrochemistry, Xiamen, Chine, **23-26 Août 2009.**
84. Seeing Electro Communication Inside Molecules by Ultrafast Cyclic Voltammetry. Plenary Lecture. The 12th European Symposium on Organic Reactivity (ESOR XII), Haifa, Israël, **6-11 Septembre 2009.**
85. The first chemical industry: Medecinal properties of Egyptian make-up revealed by nanobioelectrochemistry. Plenary Lecture. Journées Communes des Académies des Sciences de France et du Brésil. Sao Paulo & Rio de Janeiro, Brésil, **13-20 Septembre 2009.**
86. La Chimie Face à Ses Propres Enjeux: est-elle – et sera-t-elle – encore la Chimie que nous avons connue ? Plenary Lecture. Forum Franco-Africain du COPED. Institut de France & Fondation Simone et Cino del Duca. Paris. **Décembre 2009.**
87. Ultramicroelectrodes et Fonctionnement Cellulaire à l'Echelle de la Cellule Unique : Neurotransmission et Stress Oxydatif. Plenary Lecture. 6^{èmes} Journées « Biologie, Chimie, Physique ». Marseille. **Décembre 2009.**
88. Towards a Close Collaboration Between Analytical Chemistry, Conservation Science and Art. PittCon. Orlando (USA). **Février 2010.**
89. Science Education for Better Cities, Better Life. Shanghai. Pavillon Français de l'Exposition Universelle. Mai 2010.
90. Finding Out Egyptian Gods' Secret Using Analytical Chemistry: Biomedical Properties of Egyptian Black Makeup Revealed by Microamperometry at Single Cells. Christian AMATORE. International School Hubert Curien on Structural and Molecular Archeology. Erice. **Février 2010.**

91. Are "Well Known" Catalytic Mechanisms So Well Known? The 24th International Conference on Organometallic Chemistry (2010 XXIV ICOMC). Taipei (Taiwan). **Juillet 2010**.
92. Diffusion to/from Active Micro-Objects. International Summer School. Marcoule. **Septembre 2010**.
93. Investigating Oxidative Stress at the Single Cell Level. Electrochemistry 2010 - From Microscopic Understanding to Global Impact. Bochum (Allemagne). **Septembre 2010**.
94. Investigation of Oxidative Stress at Single Cells with Ultramicroelectrodes: a New Platform for Drug Testing. 8th Annual Congress of International Drug Discovery: Science and Technology (IDDST). Conférence d'Ouverture. Pékin. **Octobre 2010**.
95. Finding Out Egyptian Gods' Secret Using MicroElectrochemistry. Shikata Discussions. Awaji Island (Japan). **Mai 2011**.
96. Investigating Oxidative Stress at the Single Cell Level. Matrafured'11 Conference. Dobogoko (Hongrie). **June 2011**.
97. Investigating Oxidative Stress at the Single Cell Level. 13th ISEAC Changchun International Meeting on Electroanalytical Chemistry. Changchun (Chine). **Août 2011**.
98. Diffusion-Reaction in micro- and nano-Confined Spaces. 32nd International Conference on Solution Chemistry. La Grande Motte (France). **Août 2011**.
99. Cooperative Tuning between Membrane Dynamics, Matrix Swelling and Biology during Vesicular Exocytosis of Neurotransmitters. Biomimetics Artificial Muscles and Nano-Bio. Cergy (France). **Octobre 2011**.
100. Monitoring and understanding vesicular release at the single cell level. Gordon Research Conference on Electrochemistry. Ventura (CA, USA). **Janvier 2012**.
101. Finding Out Egyptian Gods' Secrets Using MicroElectrochemistry. Zing Conference on Electrochemistry. Lanzarote, Iles Canaries. **Février 2012**.
102. Monitoring Cellular Communication with Ultramicroelectrodes: Neurotransmission and Oxidative Stress. Meeting de Printemps de la Société Suisse de Chimie. Genève. **Février 2012**.
103. Investigating Oxidative Stress at the Single Cell Level. PittCon. Orlando (FL, USA). **Mars 2012**.
104. Coupling Amperometry and TIRFM for Monitoring Exocytosis at the Single Event Level. NanoBioEurope-2012. Varese (Italie). **Juin 2012**.
105. Analytical Sciences and Cultural Heritage. Gordon Research Conference on First Scientific Methods in Cultural Heritage Research. Mount Snow Resort (Vermont, USA). **Juillet-Août 2012**.
106. Monitoring Cellular Messengers Dynamics at the Single Cell Level with Ultramicroelectrodes. International School on Bioanalytical Chemistry. Campinas (Brésil). **Septembre 2012**.
107. New Challenges in Molecular Electrochemistry and Microsensors for Local Analysis. 2012 Environmental Sensors Conference. Hendaye. **Septembre 2012**.
108. Novel Strategy for Apoptosis Induction and Inhibition of Drug Resistant Leukemia Cell-induced Tumor Growth by Daunorubicin Loaded on Graphene-Gold Nanocomposites. BIT's 2nd Annual Symposium of Drug Delivery Systems. Nanjing (Chine). **Novembre 2012**.
109. Les Dessous Mécanistiques d'un Prix Nobel. Conférence d'hommage à Jean Tirouflet. Université de Bourgogne, Dijon. **Décembre 2012**.
110. Palladium-Catalyzed Cross Couplings in Organic Synthesis: Are Well-Known Mechanisms so-well Known? or: A Few Mechanistic Truths Beyond a Nobel Prize. Université d'Austin, USA. **Février 2013**.
111. New Challenges in Molecular Electrochemistry for Local Analysis: Coupling Amperometry and TIRFM for Monitoring Single Cells Exocytosis at the Single Event Level. 7th Workshop on Scanning ElectroChemical Microscopy. Mer Morte, Israël. **Février 2013**.
112. Coupling Amperometry and Total Internal Reflection Fluorescence Microscopy for Monitoring Exocytosis of Single Vesicles. 12th Topical Meeting of ISE. Bochum, Allemagne. **Mars 2013**.
113. A Few Central Mechanistic Truths Beyond a Nobel Prize: The Miyaura-Suzuki Reaction. Argentinean Physical Chemistry and Inorganic Chemistry Meeting. Rosario, Argentine. **Mars 2013**.

114. Investigating Oxidative Stress at the Single Cell Level. Cluj Bioanalytical School. Cluj, Roumanie. **Juin 2013.**
115. Vesicular Release of Neurotransmitters: Converting Amperometric Measurements into Size, Dynamics and Energetics of Initial Fusion Pores. Faraday Discussions on Electrochemistry at the Nanoscale. Durham, UK. **Juillet 2013.**
116. Extraction of fusion nanopores topology and energetics from amperometric measurements of vesicular exocytosis at ultramicroelectrodes. 14th ISEAC Meeting. Changchun, Chine. **Août 2013.**
117. Extraction of Fusion Nanopores Topology and Energetics from Amperometric Measurements of Vesicular Exocytosis at Ultramicroelectrodes. Meeting on in vivo Electroanalytical Chemistry. Chinese Academy of Sciences. Pékin, Chine. **Octobre 2013.**
118. Investigating Oxidative Stress at the Single Cell Level: Application to Macrophage Phagocytosis. BCEIA 2013. Pékin, Chine. **Octobre 2013.**
119. Extraction of fusion nanopores topology and energetics from amperometric measurements of vesicular exocytosis at ultramicroelectrodes. ET4HEALTH Conference. Modena, Italie. **Octobre 2013.**
120. Should We Just Make Straight Analytical Measurements? Why Not Using OUR OWN Data for OUR OWN Scientific Purpose? International School on Bioanalytical Chemistry. Maceio (Brésil). **Novembre 2013.**
121. Are "Well Known" Catalytic Mechanisms So Well Known? 2nd Franco-Japanese Meeting on Coordination Chemistry. Nara, Japon. **Novembre 2013.**
122. A New Algorithm for Precise Simulation of Transport and Reactivity Problems in Molecular Electrochemical Mechanisms of Any Complexity. AIMR International Symposium. Sendai, Japon. **Février 2014.**
123. Seeing, Monitoring, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters with Ultramicroelectrodes. PittCon 2014. Chicago. **Février 2014.**
124. Revisiting the mechanism of vesicular exocytosis based on quantitative treatment of amperometric measurements at ultramicroelectrodes. International Conference on Electroanalysis (ESEAC). Malmö, Suède. **Juin 2014.**
125. Do Molecules React Identically in Gas Phase, Solutions and Materials? Application to Cultural Heritage Artifacts. Gordon Conference on Cultural Heritage Research: Challenges and Complexity in Characterization and Conservation. Sunday River Resort, Newry (ME, USA), **Juillet 2014.**
126. Difficulties in Predicting/Rationalizing ECL Intensities. ECL 2014. Bertinoro (Italy). **Septembre 2014.**
127. Palladium Catalyzed Cross-Coupling Reactions: A Few Mechanistic Truths beyond a Nobel Prize. First Franco-Chinese Conference on Green Chemistry (FC3C 2014). Shanghai, Chine. **Novembre 2014.**
128. Voir, Mesurer et Comprendre: Exocytose Vésiculaire de Neurotransmetteurs. Fondation Sciences et Technologies pour l'Aéronautique et l'Espace : Instrumentation & Capteurs Environnementaux. Nailloux (France). **Novembre 2014.**
129. Complexity of Chemical Kinetics of Reactions Taking Place in Paintings over Centuries. Conférence Plénière. PittCon 2015. La Nouvelle Orléans (USA). **Mars 2015.**
130. Microfluidique, Microélectrodes et « Screening » Rapide de Molécules Thérapeutiques Potentielles Fondé sur l'Analyse du Stress Oxydant Cellulaire. Conférence Plénière. Colloque Pan-Africain de l'Académie des Sciences. Cotonou (Bénin). **Avril 2015.**
131. Mechanism of Brain Vascularization: Coupling Between Oxidative Stress and Neurotransmission as Investigated by Ultramicroelectrodes. Conférence Plénière. Fischer symposium. Lubeck (Allemagne). **Juin 2015.**
132. Electrochemistry at Regular and Random Arrays of Disk Electrodes. Conférence Plénière. 15th ISEAC Conference. Changchun (Chine). **Août 2015.**
133. Seeing, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters. Conférence Plénière. Euroanalysis. Bordeaux. **Septembre 2015.**
134. Seeing, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters. Conférence Plénière. 10th Frumkin Symposium. Moscou. **Octobre 2015.**

135. New Insights In The Mechanism Of Neurotransmitters Release. BCEIA 2015, Symposium on Electroanalytical Chemistry. Pékin, Chine. **Octobre 2015**.
136. Electrochemistry at Regular and Random Arrays of Disk Electrodes. IEEMF & INF 1rst International Symposium. Gold Coast, Brisbane, Australia. **Février 2016**.
137. Seeing, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters with “Artificial Synapses”. Plenary Lecture. 2016 Baltic Conference, Helsinki, Finlande. **Juin 2016**.
138. The End of the “Full Fusion” Paradigm in Vesicular Exocytosis of Neurotransmitters by Endocrine Cells. Plenary Lecture. 16th ISEAC Conference, Changchun, China. **August 2017**.
139. Understanding Fundamental Mechanisms of Biology with Measurements at Micro- and Nano-Electrodes. Plenary Lecture. Second Gerischer-Kolb Symposium: on Modern Aspects of Bioelectrochemistry. Schloss Reisenburg, Germany. **October 2017**.