Christian Amatore

List of Publications

(January 2021)

I. Publications in International Journals with Peer Review : **(*Total :506*)**

○ Journals with General Scope				:	(108)
• *Acc. Chem. Res.*	:	1	• *Isr. J. Chem.*	:	1
• *Acta Chem. Scand.*	:	2	• *J. Am. Chem. Soc.*	:	33
• *Angew. Chem.*	:	25	• *Nature, Scientific Reports*	:	2
• *Bull. Soc. Chim. Fr.*	:	1	• *Nature, Protocol Exchange*	:	1
• *Chem. Eur. J.*	:	23	• *New J. Chem.*	:	6
• *Chem. Commun. (reviews)*	:	2	• *Proc. Natl. Acad. Sci. USA*	:	1
• *Chem. Rev.*	:	1	• *Proc. Royal Soc. A*	:	1
• *Chem. Sc.*	:	2	• *RSC Adv.*	:	1
• *C.R. Acad. Sci. Paris.*	:	5	•		
○ Journals Specifically Focused on Analytical or Physical Chemistry				:	(244)
• *Analyst*	:	1	• *J. Electrochem. Soc.*	:	6
• *Anal. Chem.*	:	41	• *J. Mat. Chem. B*	:	1
• *Biomater. Sc.*	:	1	• *J. Photochem. Photobiol. A: Chem.*	:	1
• *Analusis*	:	1	• *J. Phys. Chem. (A or B)*	:	6
• *Chem. Phys.*	:	1	• *J. Phys. Condens. Matter*	:	1
• *ChemElectroChem*	:	8	• *J. Solid State Electrochem.*	:	1
• *ChemPhysChem*	:	23	• *Electrocatalysis*	:	1
• *Chem. Phys. Lett.*	:	1	• *Lab. Chip.*	:	1
• *Curr. Opin. Electrochem.*	:	4	• *Macromol. Chem. Phys.*	:	1
• *Electroanalysis*	:	3	• *Molecular Phys.*	:	1
• *Electrochim. Acta*	:	14	• *Nano Res.*	:	1
• *Electrochem. Commun.*	:	20	• *Nanotechnology*	:	1
• *Faraday Discuss.*	:	3	• *PCCP*	:	3
• *J. Appl. Electrochem.*	:	2	• *Port. Electrochim. Acta*	:	3
• *J. Chem. Phys.*	:	1	• *Russian J. Phys. Chem. A*	:	1
• *J. Electroanal. Chem.*	:	87	• *Russian J. Electrochem.*	:	2
• *J. Electrochemistry*	:	1	• *Trans. Electrochem. Soc.*	:	1
○ Journals Specifically Focused on Molecular or Material Chemistry				:	(112)
• *ACS Appl. Mat. & Interf.*	:	1	• *J. Fluorine Chem.*	:	4
• *ACS Appl. Energy Mater.*	:	1	• *J. Organomet. Chem.*	:	15
• *Adv. Synth. Catal.*	:	1	• *J. Org. Chem.*	:	9
• *Carbohydr. Res.*	:	1	• *Organometallics*	:	31
• *Coord. Chem. Rev.*	:	1	• *Polyhedron*	:	1
• *Eur. J. Inorg. Chem.*	:	10	• *RSC Adv.*	:	2
• *Eur. J. Org. Chem.*	:	3	• *RSC Dalton*	:	2
• *Inorg. Chem.*	:	5	• *Syn. Lett.*	:	2
• *Inorg. Chim. Acta*	:	23	• *Synthesis*:		2
• *J. Chem. Soc., Chem. Commun.*	:	8	• *Tetrahedron*	:	1
• *J. Chem. Soc., Dalton Trans.*	:	2	• *Tet. Lett.*	:	6
• *J. Chem. Soc., Perkin Trans. 2*	:	2	•		
○ Journals Specifically Focused on Biology and Medicine				:	(29)
• *Biomed. Pharm., AIDS Sc. Sec.*	:	1	• *ChemMedChem*	:	3
• *Biochim.*	:	1	• *Curr. Top. Med. Chem.*	:	1
• *Biochem. Biophys. Res. Commun.*	:	1	• *J. Med. Chem.*	:	1
• *Biophys. Chem.*	:	6	• *J. Neuroscience*	:	2
• *Biophys. J.*	:	2	• *J. Virology*	:	1
• *Carcinogenesis*	:	2	• *Math. Med. Biol.*	:	1
• *Cell Death and Differentiation*	:	1	• *Neuroscience*	:	1
• *ChemBioChem*	:	4	• *Quarter. Rev. Biophys.*	:	1
○ Journals Focused on Applied Mathematics				:	(3)
• *Nonlin. Anal. Model & Control*	:	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. Thiébault. *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. Thiébault. *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. Thiébault. *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. Thiébault. *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. Thiébault. *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. Thiébault. *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. Thiébault. *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. Thiébault. *J. Am. Chem. Soc.*, *104*, **1982**, 1979-1986.

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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. Hershberger, 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 Mn^0 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.

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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. Thiébault. *J. Am. Chem. Soc.*, *106*, **1984**, 6318-6321.

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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.

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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.

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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. (DOI: 10.1016/0022-0728(86)87004-8).

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.

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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. (DOI: 10.1016/0022-0728(87)80004-9).

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