

Complete List of Scientific Publications

I. Publications in International Journals with Peer Review: (Total :516)

○ Journals with General Scope		: (121)
• <i>Acc. Chem. Res.</i>	: 1	• <i>Isr. J. Chem.</i> : 1
• <i>Acta Chem. Scand.</i>	: 3	• <i>J. Am. Chem. Soc.</i> : 35
• <i>Angew. Chem., Int. Ed.</i>	: 26	• <i>Nature, Scientific Reports</i> : 2
• <i>Bull. Soc. Chim. Fr.</i>	: 1	• <i>Nature, Protocol Exchange</i> : 1
• <i>Chem., Eur. J.</i>	: 24	• <i>New J. Chem.</i> : 6
• <i>Chem. Commun.</i>	: 3	• <i>Proc. Natl. Acad. Sci. USA</i> : 2
• <i>Chem. Rev.</i>	: 1	• <i>Proc. Royal Soc. A</i> : 1
• <i>Chem. Sci.</i>	: 2	• <i>RSC Adv.</i> : 3
• <i>C. R. Acad. Sci. Paris, Chim.</i>	: 5	• <i>RSC Dalton Trans.</i> : 4
○ Journals Specifically Focused on Analytical or Physical Chemistry		: (246)
• <i>Analyst</i>	: 1	• <i>J. Electroanal. Chem.</i> : 87
• <i>Anal. Chem.</i>	: 40	• <i>J. Electrochem. Soc. (& JES Interface)</i> : 6
• <i>Biomater. Sc.</i>	: 1	• <i>J. Electrochem.</i> : 1
• <i>Biosens. & Bioelectron.</i>	1 1	• <i>J. Photochem. Photobiol. A: Chem.</i> : 1
• <i>Analysis</i>	: 1	• <i>J. Phys. Chem. (& J. Phys. Chem A, B)</i> : 6
• <i>Chem. Phys.</i>	: 2	• <i>J. Phys. Condens. Matter</i> : 1
• <i>ChemElectroChem</i>	: 11	• <i>J. Solid State Electrochem.</i> : 1
• <i>ChemPhysChem</i>	: 22	• <i>Lab. Chip.</i> : 1
• <i>Curr. Opin. Electrochem.</i>	: 4	• <i>Macromol. Chem. Phys.</i> : 1
• <i>Electroanalysis</i>	: 4	• <i>Molecular Phys.</i> : 1
• <i>Electrocatalysis</i>	: 1	• <i>Nano Res.</i> : 1
• <i>Electrochem. Soc. Trans.</i>	: 1	• <i>Nanotechnology</i> : 1
• <i>Electrochim. Acta</i>	: 14	• <i>Phys. Chem. Chem. Phys. (PCCP)</i> : 3
• <i>Electrochem. Commun.</i>	: 19	• <i>Port. Electrochim. Acta</i> : 3
• <i>Faraday Discuss.</i>	: 3	• <i>Russian J. Phys. Chem. A</i> : 1
• <i>J. Appl. Electrochem.</i>	: 2	• <i>Russian J. Electrochem.</i> : 3
• <i>J. Chem. Phys.</i>	: 1	•
○ Journals Specifically Focused on Molecular or Material Chemistry		: (109)
• <i>ACS Appl. Mat., Interf.</i>	: 1	• <i>J. Chem. Soc., Perkins Trans. 2</i> : 2
• <i>ACS Appl. Energy Mater.</i>	: 1	• <i>J. Fluorine Chem.</i> : 4
• <i>Adv. Synth. Catal.</i>	: 1	• <i>J. Mat. Chem. B</i> : 1
• <i>Arkivoc</i>	: 2	• <i>J. Organomet. Chem.</i> : 15
• <i>Carbohydr. Res.</i>	: 1	• <i>J. Org. Chem.</i> : 8
• <i>Coord. Chem. Rev.</i>	: 1	• <i>Organometallics</i> : 31
• <i>Eur. J. Inorg. Chem.</i>	: 8	• <i>Polyhedron</i> : 1
• <i>Eur. J. Org. Chem.</i>	: 5	• <i>Synlett</i> : 2
• <i>Inorg. Chem.</i>	: 5	• <i>Synthesis</i> : 2
• <i>Inorg. Chim. Acta</i>	: 3	• <i>Tetrahedron</i> : 1
• <i>J. Chem. Soc., Chem. Commun.</i>	: 7	• <i>Tetrahedron Lett.</i> : 6
• <i>J. Chem. Soc., Dalton Trans.</i>	: 1	•
○ Journals Specifically Focused on Biology and Medicine Outcomes		: (28)
• <i>Biomed. Pharmacother., 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>	: 6	• <i>J. Neuroscience</i> : 2
• <i>Biophys. J.</i>	: 2	• <i>J. Virology</i> : 1
• <i>Carcinogenesis</i>	: 2	• <i>Neuroscience</i> : 1
• <i>Cell Death and Differentiation</i>	: 1	• <i>Quarter. Rev. Biophys.</i> : 1
• <i>ChemBioChem</i>	: 4	•
○ Journals Focused on Applied Mathematics & Engineering		: (8)
• <i>Math. Med. Biol.</i>	: 1	• <i>Radioelectron. Informat.</i> : 4
• <i>Nonlin. Anal. Model & Control</i>	: 3	•
○ Other Journals (submitted upon invitations to contribute)		: (4)
• <i>C. R. Acad. Agric. Fr.</i>	: 1	• <i>Monatshfte Chem.</i> : 1
• <i>La Houille Blanche</i>	: 1	• <i>Pure Appl. Chem.</i> : 1

II. Chapters and Collective Books: (Total 30)

III. Scientific Information for Educated and General Public: (Total 19)

IV. Filed patents: (Total 8)

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. (DOI: [10.1016/s0022-0728\(77\)80150-2](https://doi.org/10.1016/s0022-0728(77)80150-2)).
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. (DOI: [10.1016/0368-1874\(78\)87021-x](https://doi.org/10.1016/0368-1874(78)87021-x)).
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. (DOI: [10.1016/s0022-0728\(78\)80069-2](https://doi.org/10.1016/s0022-0728(78)80069-2)).
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. (DOI: [10.1016/s0022-0728\(79\)80026-1](https://doi.org/10.1016/s0022-0728(79)80026-1)).
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. (DOI: [10.1016/s0022-0728\(79\)80355-1](https://doi.org/10.1016/s0022-0728(79)80355-1)).
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. (DOI: [10.1021/ja00514a024](https://doi.org/10.1021/ja00514a024)).
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. (DOI: [10.1016/0368-1874\(80\)80088-8](https://doi.org/10.1016/0368-1874(80)80088-8)).
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. (DOI: [10.1016/0368-1874\(80\)80061-x](https://doi.org/10.1016/0368-1874(80)80061-x)).
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. (DOI: [10.1016/0368-1874\(80\)80062-1](https://doi.org/10.1016/0368-1874(80)80062-1)).
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. (DOI: [10.1016/s0022-0728\(80\)80077-5](https://doi.org/10.1016/s0022-0728(80)80077-5)).
11. Product Distribution in Preparative Scale Electrolysis. I. Introduction. C. Amatore, J.-M. Savéant. *J. Electroanal. Chem.*, **123**, **1981**, 189-201. (DOI: [10.1016/s0022-0728\(81\)80498-6](https://doi.org/10.1016/s0022-0728(81)80498-6)).
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. (DOI: [10.1016/s0022-0728\(81\)80499-8](https://doi.org/10.1016/s0022-0728(81)80499-8)).
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. (DOI: [10.1016/s0022-0728\(81\)80500-1](https://doi.org/10.1016/s0022-0728(81)80500-1)).
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. (DOI: [10.1016/s0022-0728\(81\)80501-3](https://doi.org/10.1016/s0022-0728(81)80501-3)).
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. (DOI: [10.1016/s0022-0728\(81\)80320-8](https://doi.org/10.1016/s0022-0728(81)80320-8)).
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. (DOI: [10.1016/s0022-0728\(81\)80321-x](https://doi.org/10.1016/s0022-0728(81)80321-x)).
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. (DOI: [10.1016/s0022-0728\(81\)80418-4](https://doi.org/10.1016/s0022-0728(81)80418-4)).
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. (DOI: [10.1021/ja00407a008](https://doi.org/10.1021/ja00407a008)).

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. (DOI: [10.1021/ja00413a028](https://doi.org/10.1021/ja00413a028)).
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. (DOI: [10.1021/ja00367a028](https://doi.org/10.1021/ja00367a028)).
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. (DOI: [10.1021/ja00371a030](https://doi.org/10.1021/ja00371a030)).
22. Are Anion Radicals Unable to Undergo Radical-Radical Dimerization? C. Amatore, J. Pinson, J.-M. Savéant. *J. Electroanal. Chem.*, **137**, **1982**, 143-148. (DOI: [10.1016/0022-0728\(82\)85073-0](https://doi.org/10.1016/0022-0728(82)85073-0)).
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. (DOI: [10.1016/0022-0728\(82\)85114-0](https://doi.org/10.1016/0022-0728(82)85114-0)).
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. (DOI: [10.1016/s0022-0728\(83\)80143-0](https://doi.org/10.1016/s0022-0728(83)80143-0)).
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. (DOI: [10.1016/s0022-0728\(83\)80111-9](https://doi.org/10.1016/s0022-0728(83)80111-9)).
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. (DOI: [10.1016/s0022-0728\(83\)80054-0](https://doi.org/10.1016/s0022-0728(83)80054-0)).
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. (DOI: [10.1016/s0022-0728\(83\)80055-2](https://doi.org/10.1016/s0022-0728(83)80055-2)).
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. (DOI: [10.1016/s0022-0728\(83\)80128-4](https://doi.org/10.1016/s0022-0728(83)80128-4)).
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]. (DOI: [10.1016/0022-328x\(83\)85062-1](https://doi.org/10.1016/0022-328x(83)85062-1)).
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. (DOI: [10.1039/c39830000397](https://doi.org/10.1039/c39830000397)).
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. (DOI: [10.1021/ja00357a042](https://doi.org/10.1021/ja00357a042)).
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. (DOI: [10.1021/ja00358a048](https://doi.org/10.1021/ja00358a048)).
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. (DOI: [10.1021/ja00324a027](https://doi.org/10.1021/ja00324a027)).
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. (DOI: [10.1021/ja00325a011](https://doi.org/10.1021/ja00325a011)).
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. (DOI: [10.1021/ja00326a014](https://doi.org/10.1021/ja00326a014)).
36. Unusual Stabilization of Formylmetal Complexes. B.A. Narayanan, C. Amatore, J.K. Kochi. *Organometallics*, **3**, **1984**, 802-804. (DOI: [10.1021/om00083a027](https://doi.org/10.1021/om00083a027)).

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. Thiébauld. *J. Am. Chem. Soc.*, **106**, **1984**, 6318-6321. (DOI: [10.1021/ja00333a034](https://doi.org/10.1021/ja00333a034)).
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. (DOI: [10.1021/ja00336a029](https://doi.org/10.1021/ja00336a029)).
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. (DOI: [10.1016/s0022-0728\(83\)\(84\)80175-8](https://doi.org/10.1016/s0022-0728(83)(84)80175-8)).
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. (DOI: [10.1016/s0022-0728\(84\)80334-4](https://doi.org/10.1016/s0022-0728(84)80334-4)).
41. On the Electrochemical Reduction of Carbon-Dioxide. C. Amatore, L. Nadjo, J.-M. Savéant. *New J. Chem.*, **8**, **1984**, 565-566. (no DOI available).
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. (DOI: [10.1021/ja00293a003](https://doi.org/10.1021/ja00293a003)).
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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. Thiébauld. *J. Electroanal. Chem.*, **184**, **1985**, 25-40. (DOI: [10.1016/0368-1874\(85\)85512-x](https://doi.org/10.1016/0368-1874(85)85512-x)).
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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. Thiébauld. *J. Org. Chem.*, **51**, **1986**, 3757-3761. (DOI: [10.1021/jo00370a003](https://doi.org/10.1021/jo00370a003)).
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