

Philippe Hapiot

List of Publications by Year in descending order

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60
papers

3,518
citations

172457

29
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149698

56
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61
all docs

61
docs citations

61
times ranked

3963
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Reactivity in Room-Temperature Ionic Liquids. <i>Chemical Reviews</i> , 2008, 108, 2238-2264.	47.7	1,094
2	Fast kinetics by means of direct and indirect electrochemical techniques. <i>Chemical Reviews</i> , 1990, 90, 723-738.	47.7	237
3	Efficient Covalent Modification of a Carbon Surface: Use of a Silyl Protecting Group To Form an Active Monolayer. <i>Journal of the American Chemical Society</i> , 2010, 132, 14039-14041.	13.7	191
4	Single Two-Electron Transfers vs Successive One-Electron Transfers in Polyconjugated Systems Illustrated by the Electrochemical Oxidation and Reduction of Carotenoids. <i>Journal of the American Chemical Society</i> , 2001, 123, 6669-6677.	13.7	133
5	Evidence for OH Radical Production during Electrocatalysis of Oxygen Reduction on Pt Surfaces: Consequences and Application. <i>Journal of the American Chemical Society</i> , 2012, 134, 2835-2841.	13.7	126
6	Electrografting of calix[4]arene diazonium salts to form versatile robust platforms for spatially controlled surface functionalization. <i>Nature Communications</i> , 2012, 3, 1130.	12.8	118
7	Metal/Polypyrrole Quasi-Reference Electrode for Voltammetry in Nonaqueous and Aqueous Solutions. <i>Analytical Chemistry</i> , 2006, 78, 6868-6872.	6.5	100
8	Heterogeneous electron-transfer kinetics of nitro compounds in room-temperature ionic liquids. <i>Journal of Electroanalytical Chemistry</i> , 2005, 585, 1-7.	3.8	86
9	Mechanism of Dimerization of 1,4-Dithiafulvenes into TTF Vinylogues. <i>The Journal of Physical Chemistry</i> , 1996, 100, 14823-14827.	2.9	83
10	Nanostructured Monolayers on Carbon Substrates Prepared by Electrografting of Protected Aryldiazonium Salts. <i>Chemistry of Materials</i> , 2013, 25, 489-495.	6.7	83
11	Scanning Electrochemical Microscopy in Unusual Solvents: An Inequality of Diffusion Coefficients Problem. <i>Analytical Chemistry</i> , 2007, 79, 7383-7391.	6.5	63
12	Bilayer Molecular Electronics: All-Carbon Electronic Junctions Containing Molecular Bilayers Made with "Click" Chemistry. <i>Journal of the American Chemical Society</i> , 2013, 135, 12972-12975.	13.7	63
13	Specific Effects of Room Temperature Ionic Liquids on Cleavage Reactivity: An Example of the Carbon-Halogen Bond Breaking in Aromatic Radical Anions. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6175-6182.	2.5	59
14	The influence of room-temperature ionic liquids on the stereoselectivity and kinetics of the electrochemical pinacol coupling of acetophenone. <i>Green Chemistry</i> , 2005, 7, 468.	9.0	59
15	Electronic Communication between Immobilized Ferrocenyl-Terminated Dendrimers. <i>Journal of the American Chemical Society</i> , 2009, 131, 6652-6653.	13.7	58
16	Cyclic Vinylogous TTF: A Potential Molecular Clip Triggered by Electron Transfer. <i>Journal of the American Chemical Society</i> , 2003, 125, 3159-3167.	13.7	56
17	Superoxide Protonation by Weak Acids in Imidazolium Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2826-2831.	2.6	52
18	Use of Catechol As Selective Redox Mediator in Scanning Electrochemical Microscopy Investigations. <i>Analytical Chemistry</i> , 2012, 84, 7518-7524.	6.5	52

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19	Variations of Diffusion Coefficients of Redox Active Molecules in Room Temperature Ionic Liquids upon Electron Transfer. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14952-14958.	2.6	50
20	Diffusion of Molecules in Ionic Liquids/Organic Solvent Mixtures. Example of the Reversible Reduction of O ₂ to Superoxide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2019-2023.	2.6	47
21	Design of Robust Binary Film onto Carbon Surface Using Diazonium Electrochemistry. <i>Langmuir</i> , 2011, 27, 11222-11228.	3.5	47
22	Amine-Terminated Monolayers on Carbon: Preparation, Characterization, and Coupling Reactions. <i>Langmuir</i> , 2015, 31, 5071-5077.	3.5	47
23	One-Pot Electrografting of Mixed Monolayers with Controlled Composition. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15919-15928.	3.1	40
24	Application of Laser Pulse Photoinjection of Electrons from Metal Electrodes to the Determination of Reduction Potentials of Organic Radicals in Aprotic Solvents. <i>Journal of the American Chemical Society</i> , 1995, 117, 1428-1434.	13.7	37
25	Covalently Anchored Carboxyphenyl Monolayer via Aryldiazonium Ion Grafting: A Well-Defined Reactive Tether Layer for On-Surface Chemistry. <i>Langmuir</i> , 2014, 30, 7104-7111.	3.5	37
26	Crown Ether Vinylogous Tetrathiafulvalene Receptors: A Complexation Interference on the Molecular Movements Triggered by Electron Transfer. <i>Journal of Organic Chemistry</i> , 2007, 72, 4655-4662.	3.2	35
27	Electrografting of 4-Nitrobenzenediazonium Ion at Carbon Electrodes: Catalyzed and Uncatalyzed Reduction Processes. <i>Langmuir</i> , 2016, 32, 468-476.	3.5	35
28	Optimized Preparation and Scanning Electrochemical Microscopy Analysis in Feedback Mode of Glucose Oxidase Layers Grafted onto Conducting Carbon Surfaces. <i>Langmuir</i> , 2008, 24, 9089-9095.	3.5	31
29	Mixed Monolayer Organic Films via Sequential Electrografting from Aryldiazonium Ion and Arylhydrazine Solutions. <i>Langmuir</i> , 2013, 29, 3133-3139.	3.5	29
30	Electron Transfer Kinetics in a Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1025-1032.	2.6	29
31	Tunneling Dendrimers. Enhancing Charge Transport through Insulating Layer Using Redox Molecular Objects. <i>Journal of the American Chemical Society</i> , 2014, 136, 17950-17953.	13.7	28
32	Diffusion of redox active molecules in deep eutectic solvents. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 214-219.	3.8	25
33	Dimerization of ion radicals in ionic liquids. An example of favourable ϵ -Coulombic solvation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7506.	2.8	24
34	Charge Transfer between Electroactive Species Immobilized on Carbon Surfaces by Aryl Diazonium Reduction. SECM Investigations. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3075-3081.	3.1	23
35	Molecular nano-structuration of carbon surfaces through reductive diazonium salts grafting. <i>Current Opinion in Electrochemistry</i> , 2018, 7, 103-108.	4.8	22
36	π -Dimer from Bithiophene Radical Cations. Investigation of Equilibrium Constants as a Function of Substituent Size and Supporting Electrolyte Using Fast Conversion Electrochemical Cells. <i>Acta Chemica Scandinavica</i> , 1999, 53, 867-875.	0.7	19

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37	Locally Induced and Self-Induced "Electroclick" onto a Self-Assembled Monolayer: Writing and Reading with SECM under Unbiased Conditions. <i>Langmuir</i> , 2014, 30, 4501-4508.	3.5	17
38	Insights into water coordination associated with the Cu ^{II} /Cu ^I electron transfer at a biomimetic Cu centre. <i>Dalton Transactions</i> , 2014, 43, 6436-6445.	3.3	16
39	Scanning Electrochemical Microscopy Studies of Glutathione-Modified Surfaces. An Erasable and Sensitive-to-Reactive Oxygen Species Surface. <i>Langmuir</i> , 2011, 27, 11206-11211.	3.5	15
40	Increasing Applications of Graphite Thermoplastic Electrodes with Aryl Diazonium Grafting. <i>ChemElectroChem</i> , 2019, 6, 4811-4816.	3.4	14
41	Comparative Electrochemical Investigations in Ionic Liquids and Molecular Solvents of a Carbon Surface Modified by a Redox Monolayer. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28640-28646.	3.1	13
42	Direct versus indirect electron transfers in host-guest-inclusion complexes: Example of the oxidation of TTF ⁺ -CD complexes. <i>Journal of Electroanalytical Chemistry</i> , 2006, 593, 87-98.	3.8	12
43	Influence of Fluorene and Spirobifluorene Regioisomerism on the Structure, Organization, and Permeation Properties of Monolayers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14228-14237.	3.1	12
44	Efficient Dechlorination of α -Halocarbonyl and α -Haloallyl Pollutants by Electroreduction on Bismuth. <i>Environmental Science & Technology</i> , 2020, 54, 559-567.	10.0	12
45	Chemically Irreversible Redox Mediator for SECM Kinetics Investigations: Determination of the Absolute Tip-Sample Distance. <i>Analytical Chemistry</i> , 2013, 85, 1840-1845.	6.5	11
46	Facile electrochemical generation of polyoxyethyl-vinyllogous tetrathiafulvalene films. <i>Electrochemistry Communications</i> , 2007, 9, 677-682.	4.7	10
47	Evaluation of Alkyl-Ferrocene Monolayers on Carbons for Charge Storage Applications, a Voltammetry and Impedance Spectroscopy Investigation. <i>ChemElectroChem</i> , 2019, 6, 1704-1710.	3.4	10
48	SECM Investigation of Carbon Composite Thermoplastic Electrodes. <i>Analytical Chemistry</i> , 2021, 93, 1304-1309.	6.5	9
49	Polymerization Mechanism of Di(benzylidene)tetrathiapentalenes into Linearly Extended TTF Polymers. <i>Journal of Physical Chemistry A</i> , 1999, 103, 11221-11226.	2.5	8
50	Robust Assembly of Dendrimers as an Active Redox-Sensing Monolayer: An Example of Oxo-Anion Sensing. <i>Chemistry - A European Journal</i> , 2012, 18, 7041-7044.	3.3	8
51	Ti-Catalyst Biomimetic Sensor for the Detection of Nitroaromatic Pollutants. <i>Analytical Chemistry</i> , 2019, 91, 2797-2804.	6.5	7
52	Photo-electrochemical properties of quantum rods studied by scanning electrochemical microscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4627-4635.	2.8	6
53	Localized Electrochemistry for Studying Functional Carbon Surfaces. <i>Electroanalysis</i> , 2016, 28, 2680-2687.	2.9	5
54	Reversible on-surface wiring of resistive circuits. <i>Chemical Science</i> , 2017, 8, 4340-4346.	7.4	5

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55	Investigation of Protective Properties of Organic Layers toward Reactive Oxygen Species. Langmuir, 2019, 35, 16210-16216.	3.5	4
56	Charge Transfer Kinetics at Ag(111) Single Crystal Electrode/Ionic Liquid Interfaces: Dependence on the Cation Alkyl Side Chain Length. ChemElectroChem, 2021, 8, 983-990.	3.4	4
57	Electron Transfer Kinetics in Ethaline/Water Mixtures. An apparent non-Marcus behavior in a Deep Eutectic Solvent.. ChemElectroChem, 0, , .	3.4	2
58	A Tribute to Christian Amatore. ChemElectroChem, 2016, 3, 1965-1966.	3.4	0
59	Electrochemical reduction of quinones in ethaline chosen as an example of deep eutectic solvent. Electrochemical Science Advances, 2023, 3, .	2.8	0
60	Electron Transfer Kinetics in Ethaline/Water Mixtures: An Apparent Non-Marcus Behavior in a Deep Eutectic Solvent. ChemElectroChem, 0, , .	3.4	0