Jalal Ghilane

List of Publications by Year in descending order

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218677 254184 2,050 72 26 43 h-index citations g-index papers 74 74 74 2357 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Giant Plasmon Resonance Shift Using Poly(3,4-ethylenedioxythiophene) Electrochemical Switching. Journal of the American Chemical Society, 2010, 132, 10224-10226.	13.7	101
2	Metal/Polypyrrole Quasi-Reference Electrode for Voltammetry in Nonaqueous and Aqueous Solutions. Analytical Chemistry, 2006, 78, 6868-6872.	6.5	100
3	Microwave assisted synthesis of carbon dots in ionic liquid as metal free catalyst for highly selective production of hydrogen peroxide. Carbon, 2018, 130, 544-552.	10.3	94
4	Mass transport and heterogeneous electron transfer of a ferrocene derivative in a room-temperature ionic liquid. Journal of Electroanalytical Chemistry, 2009, 632, 88-96.	3.8	88
5	Conducting Ferrocene Monolayers on Nonconducting Surfaces. Journal of the American Chemical Society, 2008, 130, 2748-2749.	13.7	86
6	Grafting Oligothiophenes on Surfaces by Diazonium Electroreduction: A Step toward Ultrathin Junction with Well-Defined Metal/Oligomer Interface. Journal of the American Chemical Society, 2009, 131, 14920-14927.	13.7	76
7	Nernstian-Potential-Driven Redox-Targeting Reactions of Battery Materials. CheM, 2017, 3, 1036-1049.	11.7	73
8	Electrografting Polyaniline on Carbon through the Electroreduction of Diazonium Salts and the Electrochemical Polymerization of Aniline. Journal of Physical Chemistry C, 2008, 112, 16103-16109.	3.1	65
9	Scanning Electrochemical Microscopy in Nonusual Solvents:Â Inequality of Diffusion Coefficients Problem. Analytical Chemistry, 2007, 79, 7383-7391.	6.5	63
10	Facile Electrochemical Characterization of Core/Shell Nanoparticles. Ag Core/Ag2O Shell Structures. Nano Letters, 2007, 7, 1406-1412.	9.1	62
11	Ionic Liquid Viscosity Effects on the Functionalization of Electrode Material through the Electroreduction of Diazonium. Langmuir, 2010, 26, 18542-18549.	3.5	62
12	Variations of Diffusion Coefficients of Redox Active Molecules in Room Temperature Ionic Liquids upon Electron Transfer. Journal of Physical Chemistry B, 2008, 112, 14952-14958.	2.6	50
13	Surface and Electrochemical Properties of Polymer Brush-Based Redox Poly(Ionic Liquid). ACS Applied Materials & Discrete Redox Poly(Ionic Liquid). ACS Applied	8.0	48
14	Modification of carbon electrode in ionic liquid through the reduction of phenyl diazonium salt. Electrochemical evidence in ionic liquid. Electrochemistry Communications, 2008, 10, 1060-1063.	4.7	47
15	Indirect Reduction of Aryldiazonium Salts onto Cathodically Activated Platinum Surfaces:  Formation of Metal⠑Organic Structures. Langmuir, 2005, 21, 6422-6429.	3.5	46
16	Electrochemical Switches Based on Ultrathin Organic Films: From Diode-like Behavior to Charge Transfer Transparency. Journal of Physical Chemistry C, 2008, 112, 18638-18643.	3.1	46
17	Electrografting and Controlled Surface Functionalization of Carbon Based Surfaces for Electroanalysis. Electroanalysis, 2016, 28, 13-26.	2.9	45
18	Electrosynthesis of well-organized nanoporous poly(3,4-ethylenedioxythiophene) by nanosphere lithography. Electrochemistry Communications, 2010, 12, 872-875.	4.7	39

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19	Formation of Mixed Organic Layers by Stepwise Electrochemical Reduction of Diazonium Compounds. Journal of the American Chemical Society, 2012, 134, 5476-5479.	13.7	39
20	Polymer Brushes Ionic Liquid as a Catalyst for Oxygen Reduction and Oxygen Evolution Reactions. ACS Catalysis, 2018, 8, 869-875.	11.2	38
21	Electrochemical oxidation of primary amine in ionic liquid media: Formation of organic layer attached to electrode surface. Electrochemistry Communications, 2010, 12, 246-249.	4.7	36
22	Hostâ [^] Guest Complexation: A Convenient Route for the Electroreduction of Diazonium Salts in Aqueous Media and the Formation of Composite Materials. Journal of the American Chemical Society, 2010, 132, 1690-1698.	13.7	36
23	Grafting π-Conjugated Oligomers Incorporating 3,4-Ethylenedioxythiophene (EDOT) and Thiophene Units on Surfaces by Diazonium Electroreduction. Journal of Physical Chemistry C, 2015, 119, 19218-19227.	3.1	35
24	Reactivity of Platinum Metal with Organic Radical Anions from Metal to Negative Oxidation States. Journal of the American Chemical Society, 2007, 129, 6654-6661.	13.7	28
25	Formation of negative oxidation states of platinum and gold in redox ionic liquid: Electrochemical evidence. Electrochemistry Communications, 2008, 10, 1205-1209.	4.7	27
26	Surface patterning based on nanosphere lithography and electroreduction of in situ generated diazonium cation. Electrochemistry Communications, 2012, 18, 20-23.	4.7	27
27	Oxidative and Stepwise Grafting of Dopamine Inner-Sphere Redox Couple onto Electrode Material: Electron Transfer Activation of Dopamine. Analytical Chemistry, 2013, 85, 11593-11601.	6.5	26
28	Formation of a Bifunctional Redox System Using Electrochemical Reduction of Platinum in Ferrocene Based Ionic Liquid and Its Reactivity with Aryldiazonium. Journal of the American Chemical Society, 2013, 135, 4722-4728.	13.7	26
29	When Electron Transfer Meets Electron Transport in Redox-Active Molecular Nanojunctions. Journal of the American Chemical Society, 2013, 135, 2108-2111.	13.7	26
30	Micro/Nano-Structured Polypyrrole Surfaces on Oxidizable Metals as Smart Electroswitchable Coatings. ACS Applied Materials & Samp; Interfaces, 2013, 5, 10159-10164.	8.0	25
31	Multifunctional Indium Tin Oxide Electrode Generated by Unusual Surface Modification. Scientific Reports, 2016, 6, 36708.	3.3	25
32	Surface Modification of Halogenated Polymers. 7. Local Reduction of Poly(tetrafluoroethylene) and Poly(chlorotrifluoroethylene) by a Scanning Electrochemical Microscope in the Feedback Mode. Journal of Physical Chemistry B, 2004, 108, 6391-6397.	2.6	24
33	Spectroscopic Evidence of Platinum Negative Oxidation States at Electrochemically Reduced Surfaces. Journal of Physical Chemistry C, 2007, 111, 5701-5707.	3.1	23
34	Microelectrodes modification through the reduction of aryl diazonium and their use in scanning electrochemical microscopy (SECM). Electrochemistry Communications, 2009, 11, 647-650.	4.7	22
35	Determining Li ⁺ -Coupled Redox Targeting Reaction Kinetics of Battery Materials with Scanning Electrochemical Microscopy. Journal of Physical Chemistry Letters, 2018, 9, 491-496.	4.6	22
36	Recent Advances in the Development of Organic and Organometallic Redox Shuttles for Lithiumâ€lon Redox Flow Batteries. ChemSusChem, 2020, 13, 2142-2159.	6.8	22

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37	Cathodic Modifications of Platinum Surfaces in Organic Solvent:Â Reversibility and Cation Type Effects. Journal of Physical Chemistry B, 2005, 109, 14925-14931.	2.6	21
38	Nitrogen doped carbon dots embedded in poly(ionic liquid) as high efficient metal-free electrocatalyst for oxygen reduction reaction. Catalysis Today, 2019, 335, 381-387.	4.4	20
39	Scanning Electrochemical Microscopy Investigations of Monolayers Bound to p-Type Silicon Substrates. Analytical Chemistry, 2006, 78, 6019-6025.	6.5	19
40	Grafting of imidazolium ion-terminated layer using electrochemical reduction of diazonium: Redox active counter anion exchange within the layer. Electrochemistry Communications, 2013, 27, 73-76.	4.7	19
41	The Ksar Ghilane 002 shergottiteâ€"The 100th registered Martian meteorite fragment. Meteoritics and Planetary Science, 2013, 48, 493-513.	1.6	18
42	Medium Effects on the Nucleation and Growth Mechanisms during the Redox Switching Dynamics of Conducting Polymers: Case of Poly(3,4-ethylenedioxythiophene). Journal of Physical Chemistry B, 2011, 115, 205-216.	2.6	17
43	In situ EC-AFM imaging of cathodic modifications of platinum surfaces performed in dimethylformamide. Electrochemistry Communications, 2004, 6, 188-192.	4.7	15
44	Electrochemical Fabrication of Highly Stable Redox-Active Nanojunctions. Analytical Chemistry, 2011, 83, 9709-9714.	6.5	14
45	Plasmon-Induced Conductance Switching of an Electroactive Conjugated Polymer Nanojunction. ACS Applied Materials & Samp; Interfaces, 2017, 9, 27817-27824.	8.0	14
46	Electrochemical Growth of Metallic Nanoparticles onto Immobilized Polymer Brush Ionic Liquid as a Hybrid Electrocatalyst for the Hydrogen Evolution Reaction. ACS Applied Materials & Emp; Interfaces, 2019, 11, 38265-38275.	8.0	14
47	Surface Initiated Immobilization of Molecules Contained in an Ionic Liquid Framework. Analytical Chemistry, 2016, 88, 1017-1021.	6.5	12
48	Redox monomer ionic liquid based on quaternary ammonium: From electrochemistry to polymer brushes. Electrochemistry Communications, 2017, 82, 25-29.	4.7	12
49	Facile electrochemical generation of polyoxyethyl-vinylogous tetrathiafulvalene films. Electrochemistry Communications, 2007, 9, 677-682.	4.7	10
50	Electrochemical investigation of thin PEDOT film above an insulating substrate using scanning electrochemical microscopy. Electrochemistry Communications, 2009, 11, 2304-2307.	4.7	10
51	Scanning electrochemical microscopy for the fabrication of copper nanowires: Atomic contacts with quantized conductance, and molecular adsorption effect. Electrochimica Acta, 2012, 83, 7-12.	5.2	10
52	Electrochemical immobilization of redox active molecule based ionic liquid. Electrochemistry Communications, 2015, 58, 65-68.	4.7	10
53	Effect of the Support Nanostructure (Nanofibers and Nanotubes) on the Photoelectrochemical Performance of TiO ₂ -CdO@CdS Semiconducting Architectures. Journal of the Electrochemical Society, 2017, 164, H286-H292.	2.9	10
54	The Effect of Heteroatom Doping on Nickel Cobalt Oxide Electrocatalysts for Oxygen Evolution and Reduction Reactions. ChemPlusChem, 2020, 85, 1710-1718.	2.8	10

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55	Oxidative Grafting of a Redoxâ€Moleculeâ€Based Ionic Liquid onto an Electrode Surface: Anion Exchange within a Layer. ChemElectroChem, 2014, 1, 1467-1470.	3.4	9
56	Surface functionalization of ferrocene based ionic liquid onto carbon surface using stepwise grafting. Journal of Electroanalytical Chemistry, 2014, 713, 28-31.	3.8	8
57	Approaching the Frontier Between Fiber Devices and Single Molecule Devices in Redox Gated Junction. Journal of Physical Chemistry C, 2015, 119, 21278-21285.	3.1	8
58	Surface functionalization with redox active molecule-based imidazolium via click chemistry. Electrochemistry Communications, 2016, 70, 13-17.	4.7	8
59	Copper Nanowires through Oriented Mesoporous Silica: A Step towards Protected and Parallel Atomic Switches. Scientific Reports, 2017, 7, 17752.	3.3	7
60	Immobilization of molecule-based ionic liquids: a promising approach to improve elecrocatalyst performance towards the hydrogen evolution reaction. New Journal of Chemistry, 2022, 46, 454-464.	2.8	7
61	Platinum/poly(N-ferrocenylmethyl-N-allylimidazolium bromide) quasi-reference electrode for electrochemistry in non-aqueous and ionic liquid solutions. Electrochemistry Communications, 2016, 73, 5-9.	4.7	6
62	Electrochemical generation of stable copper nanowires with quantized conductance in DNA media. Electrochemistry Communications, 2011, 13, 272-274.	4.7	5
63	Local electrochemical reactivity of single layer graphene deposited on flexible and transparent plastic film using scanning electrochemical microscopy. Carbon, 2018, 130, 566-573.	10.3	5
64	Electrochemistry of bi-redox ionic liquid from solution to bi-functional carbon surface. Electrochimica Acta, 2020, 354, 136689.	5.2	5
65	Electrografting of conductive oligomers and polymers using diazonium electroreduction. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2014, 5, 015001.	1.5	4
66	Electrochemical synthesis and the functionalization of few layer graphene in ionic liquid and redox ionic liquid. Science China Chemistry, 2018, 61, 598-603.	8.2	4
67	YNixMn1â^'xO3 thin films by pulsed laser deposition: Structure and magnetic properties. Thin Solid Films, 2006, 510, 275-279.	1.8	3
68	Formation of Metallic Nanowires via Electrochemistry in Aqueous Surfactant Media. Journal of Physical Chemistry C, 2011, 115, 549-553.	3.1	3
69	Electrochemical Investigation of Thin PANI Film onto Insulating Substrate Using Scanning Electrochemical Microscopy. ECS Transactions, 2009, 25, 89-95.	0.5	2
70	Cyclic voltammetry and galvanostatic effect on prepared Polypyrrole/Ni _{0.3} Co _{2.7} O ₄ for O ₂ electrocatalysis. Materials Research Express, 2019, 6, 125097.	1.6	2
71	Metallic nanoparticles growth on ionic layer grafted onto glassy carbon for hydrogen evolution reaction. Journal of Molecular Liquids, 2021, 341, 117433.	4.9	2
72	Redox-active Immobilized Ionic Liquids and Polymer Ionic Liquids. RSC Smart Materials, 2017, , 225-261.	0.1	0