Dodzi Zigah

List of Publications by Year
in descending order

38 papers	1,581 citations	331670 21 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	1987 citing authors

#	Article	IF	Citations
1	Bipolar Electrochemistry: From Materials Science to Motion and Beyond. Accounts of Chemical Research, 2013, 46, 2513-2523.	15.6	325
2	Biredox ionic liquids with solid-like redox density in the liquid state for high-energy supercapacitors. Nature Materials, 2017, 16, 446-453.	27.5	303
3	Quantification of photoelectrogenerated hydroxyl radical on TiO2 by surface interrogation scanning electrochemical microscopy. Physical Chemistry Chemical Physics, 2012, 14, 12764.	2.8	78
4	Tuning the Electronic Communication between Redox Centers Bound to Insulating Surfaces. Angewandte Chemie - International Edition, 2010, 49, 3157-3160.	13.8	59
5	Covalent Assembly and Micropatterning of Functionalized Multiwalled Carbon Nanotubes to Monolayer-Modified Si(111) Surfaces. Langmuir, 2008, 24, 6595-6602.	3.5	54
6	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
7	Generation of metal composition gradients by means of bipolar electrodeposition. Electrochimica Acta, 2015, 179, 276-281.	5.2	50
8	Diffusion of Molecules in Ionic Liquids/Organic Solvent Mixtures. Example of the Reversible Reduction of O₂ to Superoxide. Journal of Physical Chemistry B, 2009, 113, 2019-2023.	2.6	47
9	Lighting Up Redox Propulsion with Luminol Electrogenerated Chemiluminescence. ChemElectroChem, 2014, 1, 95-98.	3.4	41
10	Flexible Strategy for Immobilizing Redox-Active Compounds Using in Situ Generation of Diazonium Salts. Investigations of the Blocking and Catalytic Properties of the Layers. Langmuir, 2009, 25, 12742-12749.	3.5	40
11	Electrokinetic Assembly of One-Dimensional Nanoparticle Chains with Cucurbit[7]uril Controlled Subnanometer Junctions. Nano Letters, 2013, 13, 6016-6022.	9.1	36
12	Bipolar (Bio)electroanalysis. Annual Review of Analytical Chemistry, 2021, 14, 65-86.	5.4	34
13	Straight-forward synthesis of ringed particles. Chemical Science, 2014, 5, 1961.	7.4	33
14	Biredox ionic liquids: new opportunities toward high performance supercapacitors. Faraday Discussions, 2018, 206, 393-404.	3.2	33
15	Optimized Preparation and Scanning Electrochemical Microscopy Analysis in Feedback Mode of Glucose Oxidase Layers Grafted onto Conducting Carbon Surfaces. Langmuir, 2008, 24, 9089-9095.	3.5	31
16	Wireless Electrografting of Molecular Layers for Janus Particle Synthesis. Chemistry - A European Journal, 2013, 19, 1577-1580.	3.3	31
17	Synthesis and Immobilization of Ag0 Nanoparticles on Diazonium Modified Electrodes: SECM and Cyclic Voltammetry Studies of the Modified Interfaces. Langmuir, 2010, 26, 7638-7643.	3.5	29
18	Wireless Synthesis and Activation of Electrochemiluminescent Thermoresponsive Janus Objects Using Bipolar Electrochemistry. Langmuir, 2016, 32, 12995-13002.	3.5	29

#	Article	IF	Citations
19	Electropolymerization of Polypyrrole by Bipolar Electrochemistry in an Ionic Liquid. Langmuir, 2014, 30, 2973-2976.	3.5	27
20	Atomic Contacts via Electrochemistry in Water/Cyclodextrin Media: A Step Toward Protected Atomic Contacts. Journal of the American Chemical Society, 2008, 130, 13465-13470.	13.7	24
21	Charge Transfer between Electroactive Species Immobilized on Carbon Surfaces by Aryl Diazonium Reduction. SECM Investigations. Journal of Physical Chemistry C, 2010, 114, 3075-3081.	3.1	23
22	One-step preparation of bifunctionalized surfaces by bipolar electrografting. RSC Advances, 2016, 6, 3882-3887.	3.6	23
23	Singleâ€Step Screening of the Potential Dependence of Metal Layer Morphologies along Bipolar Electrodes. ChemElectroChem, 2016, 3, 387-391.	3.4	18
24	Bipolar Electrografting on the Inner Wall of Carbon Nanotubes. ChemElectroChem, 2016, 3, 410-414.	3.4	16
25	Chemiluminescence from Asymmetric Inorganic Surface Layers Generated by Bipolar Electrochemistry. ChemPhysChem, 2013, 14, 2089-2093.	2.1	15
26	Microâ€•and Nanoscopic Imaging of Enzymatic Electrodes: A Review. ChemElectroChem, 2019, 6, 5524-5546.	3.4	15
27	Microwell array integrating nanoelectrodes for coupled opto-electrochemical monitorings of single mitochondria. Biosensors and Bioelectronics, 2019, 126, 672-678.	10.1	13
28	Highly defective carbon nanotubes for sensitive, low-cost and environmentally friendly electrochemical H2O2 sensors: Insight into carbon supports. Carbon, 2020, 170, 154-164.	10.3	13
29	SECM imaging of micropatterned organic films on carbon surfaces. Electrochemistry Communications, 2007, 9, 2387-2392.	4.7	11
30	Covalent immobilization and SECM analysis in feedback mode of glucose oxidase on a modified oxidized silicon surface. Journal of Electroanalytical Chemistry, 2009, 628, 144-147.	3.8	11
31	Electron-transfer mediation on poly-aryl dendrimer-modified electrodes. Electrochemistry Communications, 2009, 11, 1703-1706.	4.7	10
32	Asymmetric Modification of Carbon Nanotube Arrays with Thermoresponsive Hydrogel for Controlled Delivery. ACS Applied Materials & Interfaces, 2020, 12, 23378-23387.	8.0	10
33	Original Dual Microelectrode: Writing and Reading a local click reaction with Scanning Electrochemical Microscopy. Electrochimica Acta, 2016, 201, 274-278.	5.2	9
34	Combined local anodization of titanium and scanning photoelectrochemical mapping of TiO2 spot arrays. Electrochimica Acta, 2016, 222, 84-91.	5.2	9
35	The EChemPen: A Guiding Hand To Learn Electrochemical Surface Modifications. Journal of Chemical Education, 2015, 92, 1700-1704.	2.3	6
36	Dual microelectrodes decorated with nanotip arrays: Fabrication, characterization and spectroelectrochemical sensing. Electrochimica Acta, 2019, 328, 135105.	5.2	6

#	Article	IF	Citations
37	Electrosynthesis of gradient TiO2 nanotubes and rapid screening using scanning photoelectrochemical microscopy. Sustainable Energy and Fuels, 2020, 4, 1099-1104.	4.9	4
38	Scanning Electrochemical Microscopy: A New Tool for Studying Enzymatic Reactions. , 2017, , 599-625.		0