

Xiaoyu Zhao

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38

papers

593

citations

15

h-index

23

g-index

41

ext. papers

857

ext. citations

4.9

avg, IF

4.36

L-index

#	Paper	IF	Citations
38	Energy conversion technologies towards self-powered electrochemical energy storage systems: the state of the art and perspectives. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1873-1894	13	88
37	Defect Sites in Ultrathin Pd Nanowires Facilitate the Highly Efficient Electrochemical Hydrodechlorination of Pollutants by H*. <i>Environmental Science & Technology</i> , 2018 , 52, 9992-10002 ^{10.3}	10.3	63
36	Prepared MnO ₂ with different crystal forms as electrode materials for supercapacitors: experimental research from hydrothermal crystallization process to electrochemical performances. <i>RSC Advances</i> , 2017 , 7, 40286-40294	3.7	53
35	Review on the electrochemical extraction of lithium from seawater/brine. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 850, 113389	4.1	48
34	Electrode materials for capacitive deionization: A review. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 873, 114416	4.1	33
33	Decoration of graphene with 2-aminoethanethiol functionalized gold nanoparticles for molecular imprinted sensing of erythrosine. <i>Carbon</i> , 2018 , 127, 618-626	10.4	27
32	Rapid and sensitive determination of tartrazine using a molecularly imprinted copolymer modified carbon electrode (MIP-PmDB/PoPD-GCE). <i>Journal of Electroanalytical Chemistry</i> , 2017 , 785, 90-95	4.1	26
31	Lithium extraction from brine in an ionic selective desalination battery. <i>Desalination</i> , 2020 , 481, 114360	10.3	25
30	Core-Shell Self-Doped Polyaniline Coated Metal-Organic-Framework (SPAN@UIO-66-NH ₂) Screen Printed Electrochemical Sensor for Cd ²⁺ Ions. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B873-B880	3.9	25
29	Enhancement of the water solubility and antioxidant activity of hesperidin by chitoooligosaccharide. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 2422-2427	4.3	23
28	Examination of the Gouy-Chapman theory for double layer capacitance in deionized latex suspensions. <i>RSC Advances</i> , 2014 , 4, 63171-63181	3.7	22
27	A New Molecularly Imprinted Polymer (MIP)-based Electrochemical Sensor for Monitoring Cardiac Troponin I (cTnI) in the Serum. <i>Electroanalysis</i> , 2016 , 28, 2044-2049	3	20
26	Efficient Lithium Extraction from Brine Using a Three-Dimensional Nanostructured Hybrid Inorganic-Gel Framework Electrode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4827-4837	8.3	19
25	Semi-continuous electrochemical extraction of lithium from brine using CF-NMNO/AC asymmetric hybrid capacitors. <i>Electrochimica Acta</i> , 2020 , 331, 135285	6.7	18
24	Battery-Type Electrode Materials for Sodium-Ion Capacitors. <i>Batteries and Supercaps</i> , 2019 , 2, 899-917	5.6	16
23	Improving photocatalytic Rhodamine B degrading activity with Pt quantum dots on TiO ₂ nanotube arrays. <i>Surface and Coatings Technology</i> , 2015 , 281, 89-97	4.4	15
22	Reduced Graphene Oxide-Modified Screen-Printed Carbon (rGO-SPCE)-Based Disposable Electrochemical Sensor for Sensitive and Selective Determination of Ethyl Carbamate. <i>Food Analytical Methods</i> , 2017 , 10, 3329-3337	3.4	12

21	Blocking the defect sites on ultrathin Pt nanowires with Rh atoms to optimize the reaction path toward alcohol fuel oxidation. <i>Chinese Chemical Letters</i> , 2020 , 31, 1782-1786	8.1	9
20	Voltammetry in low concentration of electrolyte supported by ionic latex suspensions. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 697, 5-9	4.1	7
19	PEDOT:PSS/AuNPs/CA modified screen-printed carbon based disposable electrochemical sensor for sensitive and selective determination of carmine. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 824, 14-21	4.1	6
18	An electrocatalytic active AuNPs/5-Amino-2-mercaptobenzimidazole/rGO/SPCE composite electrode for ultrasensitive detection of progesterone. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 882, 115023	4.1	6
17	Preparation and Structural Analysis of Nano-Silver Loaded Poly(styrene-co-acrylic acid) Core-Shell Nanospheres with Defined Shape and Composition. <i>Nanomaterials</i> , 2017 , 7,	5.4	5
16	Determination and thermodynamic modeling of solid-liquid phase equilibrium for the 2,4,6-trimethylphenol and 2,5-dimethylphenol binary system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 1923-1931	4.1	4
15	Natural Dissociation Ratio of Carboxyl Group Controlled Highly Dispersed Silver Nanoparticles on PSA Microspheres and Their Catalytic Performance. <i>Nanoscale Research Letters</i> , 2018 , 13, 406	5	4
14	Experimental determination and thermodynamic modeling of solid-liquid-phase equilibrium for the 3-nitrotoluene and 4-nitrotoluene binary system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 1251-1257	4.1	3
13	Frequency-dependence of electric double layer capacitance of TiO ₂ -based composite nanotube arrays. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 779, 199-206	4.1	3
12	Analysis of crystallization and deposition process using electrochemical-quartz crystal microbalance: A review. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 904, 115936	4.1	3
11	Simple and Rapid Preparation of MIL-121 with Small Particles for Lithium Adsorption from Brine. <i>Coatings</i> , 2021 , 11, 854	2.9	3
10	Polypyrrole/Al ₂ O ₃ /LiMn ₂ O ₄ cathode for enhanced storage of Li ions. <i>Electrochemistry Communications</i> , 2021 , 124, 106951	5.1	2
9	Solubility Determination and Modeling and Dissolution Thermodynamic Properties of Raspberry Ketone in Binary Solvent Mixtures of Ethanol and Water. <i>International Journal of Thermophysics</i> , 2018 , 39, 1	2.1	2
8	Preparation, Evaluation and Characterization of Rutin-Chitooligosaccharide Complex. <i>Plant Foods for Human Nutrition</i> , 2019 , 74, 328-333	3.9	1
7	Systematically controlled synthesis of rGO/nano-MnOx materials for supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2019 , 29, 504-510	3.6	1
6	In situ analysis of pore size effect of ionic solvation during the formation of double electric layers. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 880, 114846	4.1	0
5	Lithium extraction from brine by an asymmetric hybrid capacitor composed of heterostructured lithium-rich cathode and nano-bismuth anode. <i>Separation and Purification Technology</i> , 2021 , 274, 119078	8.3	0
4	Molecularly imprinted polymer composites in food analysis 2021 , 345-380		

- 3 Phase Diagram of the Nicotinic Acid + Ammonium Sulfate + Water System. *Russian Journal of Physical Chemistry A*, **2018**, 92, 2612-2617 0.7
- 2 Antibacterial properties of a novel nano-silver loaded poly(styrene-co-acrylic) composites. *Polymers and Polymer Composites*, 096739112110374 0.8
- 1 In-situ analysis of self-assembled monolayer induced polymorphism in controlled crystallization of carbamazepine using quartz crystal microbalance technique. *Applied Surface Science*, **2022**, 593, 153445 6.7