

Ruiyong Chen

List of Publications by Year in descending order

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47
papers

1,857
citations

186265

28
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265206

42
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49
all docs

49
docs citations

49
times ranked

2521
citing authors

#	ARTICLE	IF	CITATIONS
1	Disordered Lithium-Rich Oxyfluoride as a Stable Host for Enhanced Li^{+} Intercalation Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1401814.	19.5	162
2	Novel $\text{SnO}_2@ZnO$ hierarchical nanostructures for highly sensitive and selective NO_2 gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 714-727.	7.8	157
3	Redox Flow Batteries for Energy Storage: A Technology Review. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .	2.1	123
4	Microstructural impact of anodic coatings on the electrochemical chlorine evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7392.	2.8	70
5	Li^{+} intercalation in isostructural Li_2VO_3 and $\text{Li}_2\text{VO}_2\text{F}$ with O^{2-} and mixed $\text{O}^{2-}/\text{F}^{-}$ anions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17288-17295.	2.8	67
6	First-principles calculations and experimental investigation on $\text{SnO}_2@ZnO$ heterojunction photocatalyst with enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 613-621.	9.4	67
7	A Comparative Review of Electrolytes for Organic-Material-Based Energy Storage Devices Employing Solid Electrodes and Redox Fluids. <i>ChemSusChem</i> , 2020, 13, 2205-2219.	6.8	64
8	One-Step Cationic Grafting of 4-Hydroxy-TEMPO and its Application in a Hybrid Redox Flow Battery with a Crosslinked PBI Membrane. <i>ChemSusChem</i> , 2017, 10, 3193-3197.	6.8	62
9	Structural Evolution of $\text{Li}_2\text{Fe}_{1-x}\text{Mn}_x\text{SiO}_4$ ($x = 0, 0.2, 0.5, 1$) Cathode Materials for Li-Ion Batteries upon Electrochemical Cycling. <i>Journal of Physical Chemistry C</i> , 2013, 117, 884-893.	3.1	56
10	Improved Voltage and Cycling for Li^{+} Intercalation in High-Capacity Disordered Oxyfluoride Cathodes. <i>Advanced Science</i> , 2015, 2, 1500128.	11.2	56
11	A facile synthesis of encapsulated CoFe_2O_4 into carbon nanofibres and its application as conversion anodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 260, 205-210.	7.8	55
12	Growth mechanism and photoluminescence property of hydrothermal oriented ZnO nanostructures evolving from nanorods to nanoplates. <i>Journal of Alloys and Compounds</i> , 2017, 718, 161-169.	5.5	53
13	Enhanced radar and infrared compatible stealth properties in hierarchical $\text{SnO}_2@ZnO$ nanostructures. <i>Ceramics International</i> , 2017, 43, 3443-3447.	4.8	52
14	Ionic liquid-mediated aqueous redox flow batteries for high voltage applications. <i>Electrochemistry Communications</i> , 2016, 70, 56-59.	4.7	48
15	Shifting redox potential of nitroxyl radical by introducing an imidazolium substituent and its use in aqueous flow batteries. <i>Journal of Power Sources</i> , 2019, 418, 11-16.	7.8	44
16	Water-in-ionic liquid solutions towards wide electrochemical stability windows for aqueous rechargeable batteries. <i>Electrochimica Acta</i> , 2018, 263, 47-52.	5.2	43
17	Anodic Electrocatalytic Coatings for Electrolytic Chlorine Production: A Review. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013, 227, 651-666.	2.8	41
18	Toward High-Voltage, Energy-Dense, and Durable Aqueous Organic Redox Flow Batteries: Role of the Supporting Electrolytes. <i>ChemElectroChem</i> , 2019, 6, 603-612.	3.4	41

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19	Microwave-assistant hydrothermal synthesis of SnO ₂ @ZnO hierarchical nanostructures enhanced photocatalytic performance under visible light irradiation. <i>Materials Research Bulletin</i> , 2018, 106, 74-80.	5.2	38
20	Reversible Li ⁺ Storage in a LiMnTiO ₄ Spinel and Its Structural Transition Mechanisms. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12608-12616.	3.1	37
21	High-Voltage and Low-Temperature Aqueous Supercapacitor Enabled by Water-in-Midazolium Chloride Electrolytes. <i>ChemSusChem</i> , 2018, 11, 3899-3904.	6.8	37
22	Nanoscale spinel LiFeTiO ₄ for intercalation pseudocapacitive Li ⁺ storage. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1482-1488.	2.8	35
23	Charge separation and strong adsorption-enhanced MoO ₃ visible light photocatalytic performance. <i>Journal of Materials Science</i> , 2020, 55, 5808-5822.	3.7	33
24	High-Performance Low-Temperature Li ⁺ Intercalation in Disordered Rock-Salt Li ⁺ Cr ³⁺ V Oxyfluorides. <i>ChemElectroChem</i> , 2016, 3, 892-895.	3.4	32
25	Improved All-Vanadium Redox Flow Batteries using Catholyte Additive and a Cross-linked Methylated Polybenzimidazole Membrane. <i>ACS Applied Energy Materials</i> , 2018, 1, 6047-6055.	5.1	32
26	Unlocking Simultaneously the Temperature and Electrochemical Windows of Aqueous Phthalocyanine Electrolytes. <i>ACS Applied Energy Materials</i> , 2019, 2, 3773-3779.	5.1	32
27	Element selection for crystalline inorganic solid discovery guided by unsupervised machine learning of experimentally explored chemistry. <i>Nature Communications</i> , 2021, 12, 5561.	12.8	32
28	Redox flow batteries for energy storage: Recent advances in using organic active materials. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 40-45.	4.8	31
29	Advances in electrode materials for Li-based rechargeable batteries. <i>RSC Advances</i> , 2017, 7, 33789-33811.	3.6	30
30	An π -interaction-mediated strategy towards enhanced solubility and redox properties of organics for aqueous flow batteries. <i>Nano Energy</i> , 2020, 69, 104464.	16.0	29
31	Redox Flow Batteries: Fundamentals and Applications. , 0, , .		27
32	Identifying the redox activity of cation-disordered Li ⁺ Fe ³⁺ V ⁵⁺ Ti oxide cathodes for Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7695-7701.	2.8	25
33	High-performance protonic ceramic fuel cell cathode using protophilic mixed ion and electron conducting material. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2559-2566.	10.3	25
34	In situ Supported Nanoscale Ru _x Ti _{1-x} O ₂ on Anatase TiO ₂ with Improved Electroactivity. <i>Chemistry of Materials</i> , 2010, 22, 6215-6217.	6.7	20
35	Lithiation-driven structural transition of VO ₂ F into disordered rock-salt Li _x VO ₂ F. <i>RSC Advances</i> , 2016, 6, 65112-65118.	3.6	19
36	Wavelet analysis of chlorine bubble evolution on electrodes with different surface morphologies. <i>Electrochemistry Communications</i> , 2012, 22, 16-20.	4.7	16

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37	Enhanced reaction kinetics of an aqueous Zn ²⁺ /Fe hybrid flow battery by optimizing the supporting electrolytes. <i>Journal of Energy Storage</i> , 2019, 25, 100883.	8.1	16
38	Imidazolium cation enabled reversibility of a hydroquinone derivative for designing aqueous redox electrolytes. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2998-3005.	4.9	13
39	Effect of Molecular Structure and Coordinating Ions on the Solubility and Electrochemical Behavior of Quinone Derivatives for Aqueous Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 160502.	2.9	8
40	Polymorph of LiAlP ₂ O ₇ : Combined Computational, Synthetic, Crystallographic, and Ionic Conductivity Study. <i>Inorganic Chemistry</i> , 2021, 60, 14083-14095.	4.0	7
41	Extended Condensed Ultraphosphate Frameworks with Monovalent Ions Combine Lithium Mobility with High Computed Electrochemical Stability. <i>Journal of the American Chemical Society</i> , 2021, 143, 18216-18232.	13.7	7
42	Enhanced Long-Term Cathode Stability by Tuning Interfacial Nanocomposite for Intermediate Temperature Solid Oxide Fuel Cells. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	3
43	Cation Disorder and Large Tetragonal Supercell Ordering in the Li-Rich Argyrodite Li ₇ Zn _{0.5} Si ₆ . <i>Chemistry of Materials</i> , 2022, 34, 4073-4087.	6.7	3
44	(De)lithiation-Induced Phase Transitions of LiMTiO ₄ Spinel. <i>ECS Transactions</i> , 2014, 61, 19-28.	0.5	1
45	Carbon-Nanofibers Encapsulated Metal Oxide Nanocomposite and Its Application as Conversion Anode Material for Lithium Ion Batteries. <i>ECS Transactions</i> , 2015, 64, 155-164.	0.5	1
46	Emerging Investigators in Electrochemical Energy Conversion and Storage 2018. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .	2.1	0
47	Ionic Liquids-Promoted Utilization of Redox-Active Organic Materials for Flow Batteries. <i>ECS Meeting Abstracts</i> , 2019, .	0.0	0