

Xiaoyan Liu

List of Publications by Year in descending order

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50
papers

3,183
citations

218677

26
h-index

223800

46
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51
all docs

51
docs citations

51
times ranked

4859
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudocapacitive Sodium Storage in Mesoporous Single-Crystal-like TiO ₂ â€“Graphene Nanocomposite Enables High-Performance Sodium-Ion Capacitors. ACS Nano, 2017, 11, 2952-2960.	14.6	542
2	Near-Infrared and Naked-Eye Fluorescence Probe for Direct and Highly Selective Detection of Cysteine and Its Application in Living Cells. Analytical Chemistry, 2015, 87, 4856-4863.	6.5	194
3	High-Bandwidth White-Light System Combining a Micro-LED with Perovskite Quantum Dots for Visible Light Communication. ACS Applied Materials & Interfaces, 2018, 10, 5641-5648.	8.0	194
4	Naked-Eye and Near-Infrared Fluorescence Probe for Hydrazine and Its Applications in In Vitro and In Vivo Bioimaging. Analytical Chemistry, 2015, 87, 9101-9107.	6.5	185
5	Gd-doping effect on performance of HfO ₂ based resistive switching memory devices using implantation approach. Applied Physics Letters, 2011, 98, .	3.3	165
6	In Situ High-Level Nitrogen Doping into Carbon Nanospheres and Boosting of Capacitive Charge Storage in Both Anode and Cathode for a High-Energy 4.5 V Full-Carbon Lithium-Ion Capacitor. Nano Letters, 2018, 18, 3368-3376.	9.1	163
7	Ionic doping effect in ZrO ₂ resistive switching memory. Applied Physics Letters, 2010, 96, .	3.3	154
8	Graphene Caging Silicon Particles for High-Performance Lithium-Ion Batteries. Small, 2018, 14, e1800635.	10.0	146
9	Regenerative Polysulfide-Scavenging Layers Enabling Lithium-Sulfur Batteries with High Energy Density and Prolonged Cycling Life. ACS Nano, 2017, 11, 2697-2705.	14.6	132
10	Recent Progress of Hybrid Solid-State Electrolytes for Lithium Batteries. Chemistry - A European Journal, 2018, 24, 18293-18306.	3.3	127
11	Mesoporous Silicon Anodes by Using Polybenzimidazole Derived Pyrrolic N-Enriched Carbon toward High-Energy Li-Ion Batteries. ACS Energy Letters, 2017, 2, 1279-1287.	17.4	122
12	Sensitive and selective electrochemical determination of uric acid in urine based on ultras-small iron oxide nanoparticles decorated urchin-like nitrogen-doped carbon. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112538.	5.0	99
13	Microwave-Induced Metal Dissolution Synthesis of Core-Shell Copper Nanowires/ZnS for Visible Light Photocatalytic H ₂ Evolution. Advanced Energy Materials, 2019, 9, 1900775.	19.5	97
14	Well-dispersed phosphorus nanocrystals within carbon via high-energy mechanical milling for high performance lithium storage. Nano Energy, 2019, 59, 464-471.	16.0	70
15	SKP2 promotes breast cancer tumorigenesis and radiation tolerance through PDCD4 ubiquitination. Journal of Experimental and Clinical Cancer Research, 2019, 38, 76.	8.6	68
16	miR-1204 targets VDR to promotes epithelial-mesenchymal transition and metastasis in breast cancer. Oncogene, 2018, 37, 3426-3439.	5.9	52
17	Novel S-doped ordered mesoporous carbon nanospheres toward advanced lithium metal anodes. Nano Energy, 2020, 69, 104443.	16.0	52
18	Electrolyte Interphase Built from Anionic Covalent Organic Frameworks for Lithium Dendrite Suppression. Advanced Functional Materials, 2021, 31, 2009718.	14.9	43

#	ARTICLE	IF	CITATIONS
19	Microwave-assisted synthesis of 1T MoS ₂ /Cu nanowires with enhanced capacity and stability as anode for LIBs. <i>Chemical Engineering Journal</i> , 2019, 374, 429-436.	12.7	42
20	Facile fabrication of fluorine-free breathable poly(methylhydrosiloxane)/polyurethane fibrous membranes with enhanced water-resistant capability. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 541-548.	9.4	40
21	Interface Dipole Induced Field Effect Passivation for Achieving 21.7% Efficiency and Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2008052.	14.9	40
22	High Quality Pyrazinoquinoxaline-Based Graphdiyne for Efficient Gradient Storage of Lithium Ions. <i>Nano Letters</i> , 2020, 20, 7333-7341.	9.1	39
23	Self-Driven Reactive Oxygen Species Generation via Interfacial Oxygen Vacancies on Carbon-Coated TiO ₂ with Versatile Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2033-2043.	8.0	34
24	Aerosol-Assisted Synthesis of Spherical Sb/C Composites as Advanced Anodes for Lithium Ion and Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 6381-6387.	5.1	32
25	A physical model for bipolar oxide-based resistive switching memory based on ion-transport-recombination effect. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	31
26	PEO-coated sulfur-carbon composite for high-performance lithium-sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 3373-3379.	2.5	31
27	Preparation of yolk-shell sulfur/carbon nanocomposite via an organic solvent route for lithium-sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2077-2085.	2.5	25
28	Microwave-assisted synthesis of oxygen vacancy associated TiO ₂ for efficient photocatalytic nitrate reduction. <i>Chinese Chemical Letters</i> , 2022, 33, 3835-3841.	9.0	25
29	Improved electrochemical performance of Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ by doping with molybdenum for Lithium battery. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1037-1044.	2.5	24
30	Vapor deposition of aluminium oxide into N-rich mesoporous carbon framework as a reversible sulfur host for lithium-sulfur battery cathode. <i>Nano Research</i> , 2021, 14, 131-138.	10.4	24
31	Microwave-Assisted Heating Method toward Multicolor Quantum Dot-Based Phosphors with Much Improved Luminescence. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27160-27170.	8.0	21
32	In situ synthesis of mesoporous single-grain layer anatase TiO ₂ nanosheets without additives via a mild and simple process for a long-term Li-ion battery. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6455-6463.	10.3	20
33	Negatively charged polymeric interphase for regulated uniform lithium-ion transport in stable lithium metal batteries. <i>Nano Energy</i> , 2021, 87, 106214.	16.0	18
34	34.5 m Underwater optical wireless communication with 2.70 Gbps data rate based on a green laser with NRZ-OOK modulation. , 2017, , .		15
35	Dual electrocatalytic heterostructures for efficient immobilization and conversion of polysulfides in Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18477-18487.	10.3	15
36	In Situ Synthesis of a Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ /Poly(vinylene) Tj ETQq0 0.0 rgBT /Overlock 10 Energy Materials, 2021, 4, 9368-9375.	9.1	15

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37	Electrolyte Modulators toward Polarization-Mitigated Lithium-Ion Batteries for Sustainable Electric Transportation. <i>Advanced Materials</i> , 2022, 34, e2107787.	21.0	15
38	Experimental demonstration of non-line-of-sight visible light communication with different reflecting materials using a GaN-based micro-LED and modified IEEE 802.11ac. <i>AIP Advances</i> , 2018, 8, .	1.3	13
39	Suppression of CUL4A attenuates TGF- β 1-induced epithelial-to-mesenchymal transition in breast cancer cells. <i>International Journal of Molecular Medicine</i> , 2017, 40, 1114-1124.	4.0	10
40	Uniform lithium nucleation/deposition regulated by N/S co-doped carbon nanospheres towards ultra-stable lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1463-1472.	10.3	10
41	In vitro fatigue properties of prototype textile components of endovascular devices. <i>Fibers and Polymers</i> , 2009, 10, 91-97.	2.1	7
42	A novel compact cathode using sponge-like RANEY [®] nickel as the sulfur immobilizer for lithium-sulfur batteries. <i>RSC Advances</i> , 2017, 7, 35482-35489.	3.6	7
43	Rhodamine B derivative-modified up-conversion nanoparticle probes based on fluorescence resonance energy transfer (FRET) for the solid-based detection of copper ions. <i>RSC Advances</i> , 2019, 9, 30917-30924.	3.6	7
44	A flame retardant containing biomass-based polydopamine for high-performance rigid polyurethane foam. <i>New Journal of Chemistry</i> , 2022, 46, 11985-11993.	2.8	7
45	Intelligent Optimization of the Film-to-Fiber Ratio of a Degradable Braided Bicomponent Ureteral Stent. <i>Materials</i> , 2015, 8, 7563-7577.	2.9	4
46	Photocatalysis: Microwave-Induced Metal Dissolution Synthesis of Core-Shell Copper Nanowires/ZnS for Visible Light Photocatalytic H ₂ Evolution (Adv. Energy Mater. 22/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970085.	19.5	2
47	Radial Boundary Forces-Modulated Valence Band Structure of Ge (110) Nanowire. , 2009, , .		1
48	Impact of Thickness and Deposition Temperature of Gate Dielectric on Valence Bands in Silicon Nanowires. , 2009, , .		0
49	A Parallel Feature Expansion Classification Model with Feature-based Attention Mechanism. , 2018, , .		0
50	Estimating the Impact of Ecological Migrants on the South-to-North Water Diversion in China. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12295.	2.6	0