

Dequan Liu

List of Publications by Year in descending order

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27
papers

872
citations

471509

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27
times ranked

1409
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#	ARTICLE	IF	CITATIONS
1	Group IVA Element (Si, Ge, Sn)-Based Alloying/Dealloying Anodes as Negative Electrodes for Full-Cell Lithium-Ion Batteries. <i>Small</i> , 2017, 13, 1702000.	10.0	163
2	Preparation of 3D nanoporous copper-supported cuprous oxide for high-performance lithium ion battery anodes. <i>Nanoscale</i> , 2013, 5, 1917.	5.6	91
3	Preparation of nano-networks of MnO ₂ /shell/Ni current collector core for high-performance supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 483-487.	6.7	86
4	Nb ₂ O ₅ /RGO Nanocomposite Modified Separators with Robust Polysulfide Traps and Catalytic Centers for Boosting Performance of Lithium-Sulfur Batteries. <i>Small</i> , 2019, 15, e1902363.	10.0	83
5	CeO ₂ decorated graphene as separator modification material for capture and boost conversion of polysulfide in lithium-sulfur batteries. <i>Journal of Membrane Science</i> , 2021, 619, 118780.	8.2	55
6	Effect of Zn-substitution on cycling performance of Ni-Co(OH) ₂ nanosheet electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2585.	10.3	53
7	Template-free synthesized Ni nanofoams as nanostructured current collectors for high-performance electrodes in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10002.	10.3	36
8	Interfacial modification of a lightweight carbon foam current collector for high-energy density Si/LCO lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13168-13175.	10.3	35
9	A Hierarchical Interconnected Nanosheet Structure of Porous Ni-MnO ₂ on Graphite Paper as Cathode with a Broad Potential Window for NaNO ₃ Aqueous Electrolyte Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 2614-2622.	5.1	32
10	Cracked bark-inspired ternary metallic sulfide (NiCoMnS ₄) nanostructure on carbon cloth for high-performance aqueous asymmetric supercapacitors. <i>Science China Materials</i> , 2021, 64, 1632-1641.	6.3	32
11	Ion-Selective Covalent Organic Framework Membranes as a Catalytic Polysulfide Trap to Arrest the Redox Shuttle Effect in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4079-4090.	8.0	32
12	Synthesis of core-shell architectures of silicon coated on controllable grown Ni-silicide nanostructures and their lithium-ion battery application. <i>CrystEngComm</i> , 2013, 15, 7298.	2.6	24
13	Sulfur Immobilizer by Nanoscale TiO ₂ Trapper Deposited on Hierarchical Porous Carbon and Graphene for Cathodes of Lithium-Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701602.	3.7	24
14	Mesoporous boron carbon nitride/graphene modified separators as efficient polysulfides barrier for highly stable lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 34-40.	3.8	24
15	TiO ₂ Nanoparticles In Situ Formed on Ti ₃ C ₂ Nanosheets by a One-Step Ethanol-Thermal Method for Enhanced Reversible Lithium-Ion Storage. <i>ChemistrySelect</i> , 2020, 5, 3124-3129.	1.5	21
16	Interconnected Vertical Ni-MnO ₂ Nanoflakes Coated by a Dopamine-Derived Carbon Thin Shell as a High-Performance Self-Supporting Cathode for Aqueous Zinc Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030540.	2.9	19
17	Magnetically Assembled Ni@Ag Urchin-Like Ensembles with Ultra-Sharp Tips and Numerous Gaps for SERS Applications. <i>Small</i> , 2014, 10, 2564-2569.	10.0	18
18	Triple-Yolked ZnO/CdS Hollow Spheres for Semiconductor-Sensitized Solar Cells. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 757-762.	2.3	9

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19	Excellent Light Confinement of Hemiellipsoid- and Inverted Hemiellipsoid-Modified Semiconductor Nanowire Arrays. <i>Nanoscale Research Letters</i> , 2018, 13, 236.	5.7	6
20	Sandwich-like SnS ₂ /graphene multilayers for efficient lithium/sodium storage. <i>Dalton Transactions</i> , 2021, 50, 14884-14890.	3.3	6
21	Fabricating a Carbon Microtube Interlayer by a Sustainable Green Process as a Polysulfide-Trapping Shield for Lithium-Sulfur Batteries. <i>Energy & Fuels</i> , 2021, 35, 14140-14147.	5.1	6
22	Enhanced immobilization and accelerated conversion of polysulfides by functionalized separator for advanced lithium sulfur batteries. <i>Journal of Power Sources</i> , 2022, 539, 231490.	7.8	6
23	Improvement of the Optoelectrical Properties of a Transparent Conductive Polymer via a Simple Mechanical Pressure Treatment. <i>ACS Omega</i> , 2020, 5, 7545-7554.	3.5	5
24	Solution-Processed Organic/p-Type Silicon Hybrid Heterojunction Solar Cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 0, , 2000560.	2.4	4
25	Self-Support Surface Enhanced Raman Scattering Substrates with the Function of Enriching Analytes. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800559.	3.7	1
26	The Synergy of La ₂ O ₃ Nanoparticles and Graphene for Advanced Li-S Batteries. <i>ChemistrySelect</i> , 2022, 7, .	1.5	1
27	Solar Cells: Triple-Yolked ZnO/CdS Hollow Spheres for Semiconductor-Sensitized Solar Cells (Part.) <i>Tj ETQq1 1 0.784314 rgBT₀/Overlo</i>	2.3	1