

# Dequan Liu

## List of Publications by Year in descending order

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27  
papers

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Ion-Selective Covalent Organic Framework Membranes as a Catalytic Polysulfide Trap to Arrest the Redox Shuttle Effect in Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2022, 14, 4079-4090.	8.0	32
2	The Synergy of La <sub>2</sub> O <sub>3</sub> Nanoparticles and Graphene for Advanced Li-S Batteries. ChemistrySelect, 2022, 7, .	1.5	1
3	Enhanced immobilization and accelerated conversion of polysulfides by functionalized separator for advanced lithium sulfur batteries. Journal of Power Sources, 2022, 539, 231490.	7.8	6
4	CeO <sub>2</sub> decorated graphene as separator modification material for capture and boost conversion of polysulfide in lithium-sulfur batteries. Journal of Membrane Science, 2021, 619, 118780.	8.2	55
5	Sandwich-like SnS <sub>2</sub> /graphene multilayers for efficient lithium/sodium storage. Dalton Transactions, 2021, 50, 14884-14890.	3.3	6
6	Interconnected Vertical MnO <sub>2</sub> Nanoflakes Coated by a Dopamine-Derived Carbon Thin Shell as a High-Performance Self-Supporting Cathode for Aqueous Zinc Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 030540.	2.9	19
7	Fabricating a Carbon Microtube Interlayer by a Sustainable Green Process as a Polysulfide-Trapping Shield for Lithium-Sulfur Batteries. Energy & Fuels, 2021, 35, 14140-14147.	5.1	6
8	Cracked bark-inspired ternary metallic sulfide (NiCoMnS <sub>4</sub> ) nanostructure on carbon cloth for high-performance aqueous asymmetric supercapacitors. Science China Materials, 2021, 64, 1632-1641.	6.3	32
9	TiO <sub>2</sub> Nanoparticles In Situ Formed on Ti <sub>3</sub> C <sub>2</sub> Nanosheets by a One-Step Ethanol-Thermal Method for Enhanced Reversible Lithium-Ion Storage. ChemistrySelect, 2020, 5, 3124-3129.	1.5	21
10	Improvement of the Optoelectrical Properties of a Transparent Conductive Polymer via a Simple Mechanical Pressure Treatment. ACS Omega, 2020, 5, 7545-7554.	3.5	5
11	A Hierarchical Interconnected Nanosheet Structure of Porous MnO <sub>2</sub> on Graphite Paper as Cathode with a Broad Potential Window for NaNO <sub>3</sub> Aqueous Electrolyte Supercapacitors. ACS Applied Energy Materials, 2020, 3, 2614-2622.	5.1	32
12	Nb <sub>2</sub> O <sub>5</sub> /RGO Nanocomposite Modified Separators with Robust Polysulfide Traps and Catalytic Centers for Boosting Performance of Lithium-Sulfur Batteries. Small, 2019, 15, e1902363.	10.0	83
13	Mesoporous boron carbon nitride/graphene modified separators as efficient polysulfides barrier for highly stable lithium-sulfur batteries. Journal of Electroanalytical Chemistry, 2019, 842, 34-40.	3.8	24
14	Sulfur Immobilizer by Nanoscale TiO <sub>2</sub> Trapper Deposited on Hierarchical Porous Carbon and Graphene for Cathodes of Lithium-Sulfur Batteries. Advanced Materials Interfaces, 2018, 5, 1701602.	3.7	24
15	Excellent Light Confinement of Hemiellipsoid- and Inverted Hemiellipsoid-Modified Semiconductor Nanowire Arrays. Nanoscale Research Letters, 2018, 13, 236.	5.7	6
16	Self-Support Surface Enhanced Raman Scattering Substrates with the Function of Enriching Analytes. Advanced Materials Interfaces, 2018, 5, 1800559.	3.7	1
17	Interfacial modification of a lightweight carbon foam current collector for high-energy density Si/LCO lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 13168-13175.	10.3	35
18	Group IVA Element (Si, Ge, Sn)-Based Alloying/Dealloying Anodes as Negative Electrodes for Full-Cell Lithium-Ion Batteries. Small, 2017, 13, 1702000.	10.0	163

#	ARTICLE	IF	CITATIONS
19	Solar Cells: Triple-Yolked ZnO/CdS Hollow Spheres for Semiconductor-Sensitized Solar Cells (Part.) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlo	2.3	9
20	Triple-Yolked ZnO/CdS Hollow Spheres for Semiconductor-Sensitized Solar Cells. Particle and Particle Systems Characterization, 2014, 31, 757-762.	2.3	9
21	Effect of Zn-substitution on cycling performance of $\text{Li}^+$ -Co(OH) <sub>2</sub> nanosheet electrode for supercapacitors. Journal of Materials Chemistry A, 2014, 2, 2585.	10.3	53
22	Magnetically Assembled Ni@Ag Urchin-Like Ensembles with Ultra-Sharp Tips and Numerous Gaps for SERS Applications. Small, 2014, 10, 2564-2569.	10.0	18
23	Template-free synthesized Ni nanofoams as nanostructured current collectors for high-performance electrodes in lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 10002.	10.3	36
24	Preparation of 3D nanoporous copper-supported cuprous oxide for high-performance lithium ion battery anodes. Nanoscale, 2013, 5, 1917.	5.6	91
25	Synthesis of core-shell architectures of silicon coated on controllable grown Ni-silicide nanostructures and their lithium-ion battery application. CrystEngComm, 2013, 15, 7298.	2.6	24
26	Preparation of nano-networks of MnO <sub>2</sub> shell/Ni current collector core for high-performance supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 483-487.	6.7	86
27	Solution-Processed Organic/p-Type Silicon Hybrid Heterojunction Solar Cells. Physica Status Solidi - Rapid Research Letters, 0, , 2000560.	2.4	4