Jiayu Wan

List of Publications by Year
in descending order

34	5,011	186209 28	377752 34
papers	citations	h-index	g-index

34	34	34	7617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Capturing the swelling of solid-electrolyte interphase in lithium metal batteries. Science, 2022, 375, 66-70.	6.0	183
2	Scalable, Ultrathin, and Highâ€Temperatureâ€Resistant Solid Polymer Electrolytes for Energyâ€Dense Lithium Metal Batteries. Advanced Energy Materials, 2022, 12, .	10.2	132
3	A Review of Existing and Emerging Methods for Lithium Detection and Characterization in Liâ€Ion and Liâ€Metal Batteries. Advanced Energy Materials, 2021, 11, 2100372.	10.2	114
4	A Morphologically Stable Li/Electrolyte Interface for Allâ€Solidâ€State Batteries Enabled by 3Dâ€Micropatterned Garnet. Advanced Materials, 2021, 33, e2104009.	11.1	76
5	Giant tunability of interlayer friction in graphite via ion intercalation. Extreme Mechanics Letters, 2020, 35, 100616.	2.0	6
6	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. Nature Energy, 2020, 5, 786-793.	19.8	168
7	Designing hierarchical nanoporous membranes for highly efficient gas adsorption and storage. Science Advances, 2020, 6, .	4.7	41
8	Incorporating the Nanoscale Encapsulation Concept from Liquid Electrolytes into Solid-State Lithiumâ€“Sulfur Batteries. Nano Letters, 2020, 20, 5496-5503.	4.5	30
9	A Fireproof, Lightweight, Polymerâ€“Polymer Solid-State Electrolyte for Safe Lithium Batteries. Nano Letters, 2020, 20, 1686-1692.	4.5	175
10	Ultrathin, flexible, solid polymer composite electrolyte enabled with aligned nanoporous host for lithium batteries. Nature Nanotechnology, 2019, 14, 705-711.	15.6	773
11	A manganeseâ€“hydrogen battery with potential for grid-scale energy storage. Nature Energy, 2018, 3, 428-435.	19.8	325
12	Reversible and selective ion intercalation through the top surface of few-layer MoS2. Nature Communications, 2018, 9, 5289.	5.8	119
13	Catalyst-Free <i>In Situ</i> Carbon Nanotube Growth in Confined Space <i>via</i> High Temperature Gradient. Research, 2018, 2018, 1793784.	2.8	7
14	In Situ, Fast, Highâ€Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. Advanced Energy Materials, 2017, 7, 1601783.	10.2	27
15	High Temperature Carbonized Grass as a High Performance Sodium Ion Battery Anode. ACS Applied Materials & Interfaces, 2017, 9, 391-397.	4.0	136
16	Treeâ€Inspired Design for Highâ€Efficiency Water Extraction. Advanced Materials, 2017, 29, 1704107.	11.1	494
17	Highly Anisotropic Conductors. Advanced Materials, 2017, 29, 1703331.	11.1	80
18	Nanocarbon Paper: Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper (Adv. Mater. 23/2016). Advanced Materials, 2016, 28, 4566-4566.	11.1	3

#	Article	IF	Citations
19	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. Advanced Materials, 2016, 28, 4684-4691.	11.1	59
20	Graphene Oxideâ€Based Electrode Inks for 3Dâ€Printed Lithiumâ€Ion Batteries. Advanced Materials, 2016, 28, 2587-2594.	11.1	590
21	Electrochemical Intercalation of Lithium Ions into NbSe₂ Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 11390-11395.	4.0	56
22	Cut-and-stack nanofiber paper toward fast transient energy storage. Inorganic Chemistry Frontiers, 2016, 3, 681-688.	3.0	10
23	Tuning two-dimensional nanomaterials by intercalation: materials, properties and applications. Chemical Society Reviews, 2016, 45, 6742-6765.	18.7	363
24	A Solutionâ€Processed Highâ€Temperature, Flexible, Thinâ€Film Actuator. Advanced Materials, 2016, 28, 8618-8624.	11.1	53
25	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. Nature Communications, 2016, 7, 12332.	5.8	123
26	Thermally conductive, dielectric PCMâ€"boron nitride nanosheet composites for efficient electronic system thermal management. Nanoscale, 2016, 8, 19326-19333.	2.8	80
27	Advanced Nanomaterials for Energy-Related Applications. Journal of Nanomaterials, 2015, 2015, 1-2.	1.5	3
28	Hybridizing wood cellulose and graphene oxide toward high-performance fibers. NPG Asia Materials, 2015, 7, e150-e150.	3.8	95
29	Nanocellulose as green dispersant for two-dimensional energy materials. Nano Energy, 2015, 13, 346-354.	8.2	270
30	Sodium-Ion Intercalated Transparent Conductors with Printed Reduced Graphene Oxide Networks. Nano Letters, 2015, 15, 3763-3769.	4.5	46
31	Chemically Crushed Wood Cellulose Fiber towards High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23291-23296.	4.0	123
32	In Situ Investigations of Liâ€MoS₂ with Planar Batteries. Advanced Energy Materials, 2015, 5, 1401742.	10.2	87
33	Highly Conductive Microfiber of Graphene Oxide Templated Carbonization of Nanofibrillated Cellulose. Advanced Functional Materials, 2014, 24, 7366-7372.	7.8	94
34	Two dimensional silicon nanowalls for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 6051-6057.	5.2	70