Shan Hu

List of Publications by Year
in descending order

31 papers	**2,263** citations	331259 **21** h-index	476904 **29** g-index
31 all docs	**31** docs citations	**31** times ranked	**3848** citing authors

#	Article	IF	Citations
1	Two-photon polymerization of anisotropic composites using acoustic streaming. Manufacturing Letters, 2022, 31, 110-115.	1.1	4
2	Integrating physics-based modeling and machine learning for degradation diagnostics of lithium-ion batteries. Energy Storage Materials, 2022, 50, 668-695.	9.5	31
3	Physics-based prognostics of implantable-grade lithium-ion battery for remaining useful life prediction. Journal of Power Sources, 2021, 485, 229327.	4.0	54
4	Correlating capacity fade with film resistance loss in fast charging of lithium-ion battery. Journal of Power Sources, 2021, 485, 229360.	4.0	32
5	Integrating Rh Species with NiFe-Layered Double Hydroxide for Overall Water Splitting. Nano Letters, 2020, 20, 136-144.	4.5	129
6	Venus flytrap-like hierarchical NiCoMn–O@NiMoO4@C nanosheet arrays as free-standing core-shell electrode material for hybrid supercapacitor with high electrochemical performance. Journal of Power Sources, 2020, 477, 228977.	4.0	30
7	Morphologically tailored nano-structured MoS2 catalysts via introduction of Ni and Co ions for enhanced HER activity. Applied Surface Science, 2020, 516, 146094.	3.1	32
8	Rational design of photoelectrodes for photoelectrochemical water splitting and CO2 reduction. Frontiers of Physics, 2019, 14, 1.	2.4	16
9	Ni-Mn bimetallic oxide nanosheets as high-performance electrode materials for asymmetric supercapacitors. Journal of Energy Storage, 2019, 25, 100897.	3.9	39
10	Boosting hydrogen evolution activity in alkaline media with dispersed ruthenium clusters in NiCo-layered double hydroxide. Electrochemistry Communications, 2019, 101, 23-27.	2.3	46
11	Porous Wood Monoliths Decorated with Platinum Nano-Urchins as Catalysts for Underwater Micro-Vehicle Propulsion via H_2O_2 Decomposition. ACS Applied Nano Materials, 2019, 2, 4143-4149.	2.4	5
12	Efficient Solar-to-Thermal Energy Conversion and Storage with High-Thermal-Conductivity and Form-Stabilized Phase Change Composite Based on Wood-Derived Scaffolds. Energies, 2019, 12, 1283.	1.6	13
13	Defect-Rich 2D Material Networks for Advanced Oxygen Evolution Catalysts. ACS Energy Letters, 2019, 4, 328-336.	8.8	148
14	An investigation of Fe incorporation on the activity and stability of homogeneous (FexNi1-x)2P solid solutions as electrocatalysts for alkaline hydrogen evolution. Electrochimica Acta, 2019, 294, 297-303.	2.6	35
15	Physics-based prognostics of lithium-ion battery using non-linear least squares with dynamic bounds. Reliability Engineering and System Safety, 2019, 182, 1-12.	5.1	86
16	Fluoride-Induced Dynamic Surface Self-Reconstruction Produces Unexpectedly Efficient Oxygen-Evolution Catalyst. Nano Letters, 2019, 19, 530-537.	4.5	210
17	Hierarchical FeNiP@Ultrathin Carbon Nanoflakes as Alkaline Oxygen Evolution and Acidic Hydrogen Evolution Catalyst for Efficient Water Electrolysis and Organic Decomposition. ACS Applied Materials & Interfaces, 2018, 10, 8739-8748.	4.0	112
18	Turning Ni-based hydroxide into an efficient hydrogen evolution electrocatalyst by fluoride incorporation. Electrochemistry Communications, 2018, 86, 108-112.	2.3	20

#	Article	IF	Citations
19	Carbon nano-structured neural probes show promise for magnetic resonance imaging applications. Biomedical Physics and Engineering Express, 2018, 4, 015001.	0.6	6
20	Physics-Based State of Health Estimation of Lithium-Ion Battery Using Sequential Experimental Design. , 2018, , .		1
21	3D Printed Particle-Polymer Composites With Acoustically Localized Particle Distribution for Thermal Management Applications. , 2018, , .		0
22	Insertion of Platinum Nanoparticles into MoS2 Nanoflakes for Enhanced Hydrogen Evolution Reaction. Materials, 2018, 11, 1520.	1.3	10
23	A Normalized Trace Geometry Modeling Method with Bulge-Free Analysis for Direct Ink Writing Process Planning. 3D Printing and Additive Manufacturing, 2018, 5, 301-310.	1.4	9
24	Acoustic Field-Assisted Particle Patterning for Smart Polymer Composite Fabrication in Stereolithography. 3D Printing and Additive Manufacturing, 2018, 5, 151-159.	1.4	46
25	Bimetallic (FexNi1âˆ'x)2P nanoarrays as exceptionally efficient electrocatalysts for oxygen evolution in alkaline and neutral media. Nano Energy, 2017, 38, 553-560.	8.2	220
26	An alkaline electro-activated Feâ€"Ni phosphide nanoparticle-stack array for high-performance oxygen evolution under alkaline and neutral conditions. Journal of Materials Chemistry A, 2017, 5, 13329-13335.	5.2	135
27	Functionalized carbon nanotube based hybrid electrochemical capacitors using neutral bromide redox-active electrolyte for enhancing energy density. Journal of Power Sources, 2017, 352, 118-126.	4.0	56
28	Fully Packaged Carbon Nanotube Supercapacitors by Direct Ink Writing on Flexible Substrates. ACS Applied Materials & Interfaces, 2017, 9, 28433-28440.	4.0	161
29	Redox-Active Hydrogel Polymer Electrolytes with Different pH Values for Enhancing the Energy Density of the Hybrid Solid-State Supercapacitor. ACS Applied Materials & Interfaces, 2017, 9, 44429-44440.	4.0	46
30	Flexible solid-state paper based carbon nanotube supercapacitor. Applied Physics Letters, 2012, 100, .	1.5	193
31	The experimental exploration of carbon nanofiber and carbon nanotube additives on thermal behavior of phase change materials. Solar Energy Materials and Solar Cells, 2011, 95, 1208-1212.	3.0	338