Jian Yan

List of Publications by Year
in descending order

73 papers	5,037 citations	136885 32 h-index	91828 69 g-index
73 all docs	73 docs citations	73 times ranked	7788 citing authors

#	Article	IF	Citations
1	New insights into the key bifunctional role of sulfur in Feâ€“Nâ€“C single-atom catalysts for ORR/OER. Nanoscale, 2022, 14, 3212-3223.	2.8	32
2	Al doped Ni-Co layered double hydroxides with surface-sulphuration for highly stable flexible supercapacitors. Journal of Colloid and Interface Science, 2022, 615, 173-183.	5.0	19
3	Ultrasensitive Glucose Biosensor Using Micro-Nano Interface of Tilted Fiber Grating Coupled With Biofunctionalized Au Nanoparticles. IEEE Sensors Journal, 2022, 22, 4122-4134.	2.4	10
4	Tunable Plasmonic Random Laser Based on Emitters Coupled to Plasmonic Resonant Nanocavities of Silver Nanorod Arrays. Advanced Optical Materials, 2022, 10, .	3.6	7
5	Layer-by-Layer Assembly of CeO_{2â€“x}@C-rGO Nanocomposites and CNTs as a Multifunctional Separator Coating for Highly Stable Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2022, 14, 18634-18645.	4.0	24
6	Tunable Plasmonic Random Laser Based on Emitters Coupled to Plasmonic Resonant Nanocavities of Silver Nanorod Arrays (Advanced Optical Materials 10/2022). Advanced Optical Materials, 2022, 10, .	3.6	0
7	Enhanced thermoelectric properties of Bi0.5Sb1.5Te3/PbTe@C nanocomposites. Journal of Physics and Chemistry of Solids, 2022, 169, 110799.	1.9	1
8	A core-shell structured metal-organic frameworks-derived porous carbon nanowires as a superior anode for alkaline metal-ion batteries. Applied Surface Science, 2021, 541, 148473.	3.1	14
9	Self-Locomotive Soft Actuator Based on Asymmetric Microstructural Ti₃C₂T_x MXene Film Driven by Natural Sunlight Fluctuation. ACS Nano, 2021, 15, 5294-5306.	7.3	103
10	Integration of nickel phosphide nanodot-enriched 3D graphene-like carbon with carbon fibers as self-supported sulfur hosts for advanced lithium sulfur batteries. Electrochimica Acta, 2021, 382, 138267.	2.6	17
11	Î±-MnO2 Nanowires and Amino-Modified Reduced Graphene Oxide Hybrid Films for Constructing the Flexible High-Performance Symmetrical Supercapacitors. Nano, 2021, 16, 2150080.	0.5	0
12	Effect of dispersants on the physicochemical properties of ultra-fine ZrB2 powder in Sol-gel synthesis. Surfaces and Interfaces, 2021, 25, 101162.	1.5	7
13	3D Tungsten Disulfide/Carbon Nanotube Networks as Separator Coatings and Cathode Additives for Stable and Fast Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 45547-45557.	4.0	17
14	Zinc doped Fe2O3 hierarchical particles for stable all-solid-state Ni-Co/Fe battery. Journal of Alloys and Compounds, 2021, 879, 160436.	2.8	4
15	Retarding Ostwald ripening through Gibbs adsorption and interfacial complexions leads to high-performance SnTe thermoelectrics. Energy and Environmental Science, 2021, 14, 5469-5479.	15.6	67
16	Rational Design of Nanostructured Electrode Materials toward Multifunctional Supercapacitors. Advanced Functional Materials, 2020, 30, 1902564.	7.8	252
17	Hierarchical NiCo2O4/MnO2 coreâ€“shell nanosheets arrays for flexible asymmetric supercapacitor. Journal of Materials Science, 2020, 55, 688-700.	1.7	31
18	Multifunctional Supercapacitors: Rational Design of Nanostructured Electrode Materials toward Multifunctional Supercapacitors (Adv. Funct. Mater. 2/2020). Advanced Functional Materials, 2020, 30, 2070008.	7.8	7

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19	A split-type structure of Ag nanoparticles and Al₂O₃@Ag@Si nanocone arrays: an ingenious strategy for SERS-based detection. Nanoscale, 2020, 12, 4359-4365.	2.8	18
20	A multifunctional separator based on scandium oxide nanocrystal decorated carbon nanotubes for high performance lithiumâ€“sulfur batteries. Nanoscale, 2020, 12, 6832-6843.	2.8	34
21	Self-assembly of 0D/2D homostructure for enhanced hydrogen evolution. Materials Today, 2020, 36, 83-90.	8.3	24
22	Theoretical prediction of B/Al-doped black phosphorus as potential cathode material in lithium-sulfur batteries. Applied Surface Science, 2020, 512, 145639.	3.1	22
23	Construction of three-dimensional graphene like carbon on carbon fibers and loading of polyaniline for high performance asymmetric supercapacitor. Electrochimica Acta, 2020, 335, 135679.	2.6	11
24	Solution synthesis ultrathin PbTe0.5Se0.5 nanowires and the low lattice thermal conductivity. Journal of Physics and Chemistry of Solids, 2020, 141, 109370.	1.9	3
25	Dual-conductive N,S co-doped carbon nanoflowers for high-loading quasi-solid-state supercapacitor. Chemical Engineering Science, 2020, 217, 115496.	1.9	36
26	Niâ€“Co coordination hollow spheres for high performance flexible all-solid-state supercapacitor. Electrochimica Acta, 2020, 337, 135828.	2.6	27
27	MoS2 quantum dots decorated ultrathin NiO nanosheets for overall water splitting. Journal of Colloid and Interface Science, 2020, 566, 411-418.	5.0	38
28	Ultrathin carbon coated mesoporous Ni-NiFe2O4 nanosheet arrays for efficient overall water splitting. Electrochimica Acta, 2019, 321, 134652.	2.6	37
29	Local nanostructures enhanced the thermoelectric performance of n-type PbTe. Journal of Materials Chemistry A, 2019, 7, 18458-18467.	5.2	53
30	3D carbon coated NiCo2S4 nanowires doped with nitrogen for electrochemical energy storage and conversion. Journal of Colloid and Interface Science, 2019, 556, 449-457.	5.0	37
31	Coordination derived stable Niâ€“Co MOFs for foldable all-solid-state supercapacitors with high specific energy. Journal of Materials Chemistry A, 2019, 7, 4998-5008.	5.2	133
32	Enhanced supercapacitive performance of novel ultrathin SiC nanosheets directly by liquid phase exfoliation. Inorganic Chemistry Communication, 2019, 106, 174-179.	1.8	9
33	Nitrogen, sulfur-codoped microâ€“mesoporous carbon derived from boat-fruited sterculia seed for robust lithiumâ€“sulfur batteries. RSC Advances, 2019, 9, 15715-15726.	1.7	24
34	Dithiothreitol-assisted polysulfide reduction in the interlayer of lithiumâ€“sulfur batteries: a first-principles study. Physical Chemistry Chemical Physics, 2019, 21, 16435-16443.	1.3	7
35	Systematic study on hybrid supercapacitor of Ni-Co layered double hydroxide//activated carbons. Electrochimica Acta, 2019, 305, 403-415.	2.6	58
36	Enhanced electrochemical performance of Sn-doped MnO2 and study on morphology evolution. Journal of Alloys and Compounds, 2019, 788, 302-310.	2.8	27

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37	Enhanced High-Temperature Cyclic Stability of Al-Doped Manganese Dioxide and Morphology Evolution Study Through in situ NMR under High Magnetic Field. ACS Applied Materials & Interfaces, 2018, 10, 9398-9406.	4.0	36
38	Ni(OH)₂/CNTs hierarchical spheres for a foldable all-solid-state supercapacitor with high specific energy. Nanoscale, 2018, 10, 7377-7381.	2.8	52
39	Self-healing polyaniline-graphene oxides based electrodes with enhanced cycling stability. Electrochimica Acta, 2018, 282, 835-844.	2.6	25
40	Antibacterial triboelectric membrane-based highly-efficient self-charging supercapacitors. Nano Energy, 2017, 36, 30-37.	8.2	33
41	Rate mechanism of vanadium oxide coated tin dioxide nanowire electrode for lithium ion battery. Nano Energy, 2017, 42, 294-299.	8.2	18
42	Flexible Supercapacitors Based on Solid Ion Conducting Polymer with High Mechanical Strength. Journal of the Electrochemical Society, 2017, 164, A1952-A1957.	1.3	34
43	Long Cyclic Life in Manganese Oxide-Based Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 18078-18088.	4.0	35
44	All solid supercapacitors based on an anion conducting polymer electrolyte. RSC Advances, 2016, 6, 19826-19832.	1.7	17
45	Sticky tubes and magnetic hydrogels co-assembled by a short peptide and melanin-like nanoparticles. Chemical Communications, 2015, 51, 5432-5435.	2.2	33
46	Cathodoluminescence and Photoconductive Characteristics of Singleâ€Crystal Ternary CdS/CdSe/CdS Biaxial Nanobelts. Small, 2015, 11, 1531-1536.	5.2	14
47	Orthorhombic niobium oxide nanowires for next generation hybrid supercapacitor device. Nano Energy, 2015, 11, 765-772.	8.2	149
48	Supercapacitors: Achieving High Rate Performance in Layered Hydroxide Supercapacitor Electrodes (Adv. Energy Mater. 6/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	10.2	0
49	Insights on the Fundamental Capacitive Behavior: A Case Study of MnO₂. Small, 2014, 10, 3568-3578.	5.2	45
50	Aniline Tetramerâ€Graphene Oxide Composites for High Performance Supercapacitors. Advanced Energy Materials, 2014, 4, 1400781.	10.2	44
51	Achieving High Rate Performance in Layered Hydroxide Supercapacitor Electrodes. Advanced Energy Materials, 2014, 4, 1301240.	10.2	166
52	In situ Growth of NixCu1-x Alloy Nanocatalysts on Redox-reversible Rutile (Nb,Ti)O4 Towards High-Temperature Carbon Dioxide Electrolysis. Scientific Reports, 2014, 4, 5156.	1.6	44
53	Epitaxial ZnO Nanowireâ€onâ€Nanoplate Structures as Efficient and Transferable Field Emitters. Advanced Materials, 2013, 25, 5750-5755.	11.1	111
54	Polydopamine Spheres as Active Templates for Convenient Synthesis of Various Nanostructures. Small, 2013, 9, 596-603.	5.2	323

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55	Manganese oxide micro-supercapacitors with ultra-high areal capacitance. Nanoscale, 2013, 5, 4119.	2.8	103
56	Significant electrochemical stability of manganese dioxide/polyaniline coaxial nanowires by self-terminated double surfactant polymerization for pseudocapacitor electrode. Journal of Materials Chemistry, 2012, 22, 23921.	6.7	82
57	Enhancing electrochemical reaction sites in nickelâ€“cobalt layered double hydroxides on zinc tin oxide nanowires: a hybrid material for an asymmetric supercapacitor device. Nanoscale, 2012, 4, 7266.	2.8	409
58	Novel polymer nanocomposites from bioinspired green aqueous functionalization of BNNTs. Polymer Chemistry, 2012, 3, 962.	1.9	155
59	Thin SnO₂ Nanowires with Uniform Diameter as Excellent Field Emitters: A Stability of More Than 2400 Minutes. Advanced Functional Materials, 2012, 22, 1613-1622.	7.8	134
60	An Optimized Ultravioletâ€A Light Photodetector with Wideâ€Range Photoresponse Based on ZnS/ZnO Biaxial Nanobelt. Advanced Materials, 2012, 24, 2305-2309.	11.1	426
61	Nanoarchitectured current collector for high rate capability of polyaniline based supercapacitor electrode. Electrochimica Acta, 2012, 65, 190-195.	2.6	108
62	IIâ€“VI Semiconductor Nanostructures. , 2012, , 167-235.		0
63	Ultrahigh External Quantum Efficiency from Thin SnO₂ Nanowire Ultraviolet Photodetectors. Small, 2011, 7, 1012-1017.	5.2	278
64	V₂O₅ Loaded on SnO₂ Nanowires for Highâ€Rate Li Ion Batteries. Advanced Materials, 2011, 23, 746-750.	11.1	132
65	Random Lasing Action from Randomly Assembled ZnS Nanosheets. Nanoscale Research Letters, 2010, 5, 809-812.	3.1	20
66	Synthesis of ZnGa2O4 Hierarchical Nanostructure by Au Catalysts Induced Thermal Evaporation. Nanoscale Research Letters, 2010, 5, 1387-1392.	3.1	10
67	Wide bandwidth lasing randomly assembled ZnS/ZnO biaxial nanobelt heterostructures. Applied Physics Letters, 2010, 96, 141115.	1.5	12
68	Facile Coating of Manganese Oxide on Tin Oxide Nanowires with High-Performance Capacitive Behavior. ACS Nano, 2010, 4, 4247-4255.	7.3	518
69	Manipulation of optical properties of Ag/Cu alloy nanowire arrays embedded in anodic alumina membranes. Applied Surface Science, 2008, 254, 3845-3848.	3.1	9
70	Single-crystal snowflake of Cu7S4: Low temperature, large scale synthesis and growth mechanism. Materials Letters, 2008, 62, 2567-2570.	1.3	13
71	Fabrication of carbon-modified TiO2 nanotube arrays and their photocatalytic activity. Materials Letters, 2008, 62, 4579-4581.	1.3	46
72	Structure and Cathodoluminescence of Individual ZnS/ZnO Biaxial Nanobelt Heterostructures. Nano Letters, 2008, 8, 2794-2799.	4.5	185

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73	Effect of Stacking Fault on the Formation of the Saw-Teeth of ZnS Nanosaws. Crystal Growth and Design, 2008, 8, 1723-1726.	1.4	8