

Shuaiqi Zhao

List of Publications by Year in descending order

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63
papers

5,584
citations

87888

38
h-index

118850

62
g-index

65
all docs

65
docs citations

65
times ranked

8990
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. <i>Science Advances</i> , 2016, 2, e1501764.	10.3	351
2	Efficient Photoelectrochemical Water Splitting with Ultrathin films of Hematite on Three-Dimensional Nanophotonic Structures. <i>Nano Letters</i> , 2014, 14, 2123-2129.	9.1	307
3	High performance supercapacitors based on highly conductive nitrogen-doped graphene sheets. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12554.	2.8	273
4	Quinone Electrode Materials for Rechargeable Lithium/Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700278.	19.5	268
5	Synthesis of Size-Tunable Anatase TiO ₂ Nanospindles and Their Assembly into Anatase@Titanium Oxynitride/Titanium Nitride Graphene Nanocomposites for Rechargeable Lithium Ion Batteries with High Cycling Performance. <i>ACS Nano</i> , 2010, 4, 6515-6526.	14.6	262
6	Electrospun core-shell microfiber separator with thermal-triggered flame-retardant properties for lithium-ion batteries. <i>Science Advances</i> , 2017, 3, e1601978.	10.3	245
7	Fully Inorganic Trihalide Perovskite Nanocrystals: A New Research Frontier of Optoelectronic Materials. <i>Advanced Materials</i> , 2017, 29, 1700775.	21.0	230
8	All-Solid-State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. <i>Advanced Energy Materials</i> , 2019, 9, 1802753.	19.5	197
9	In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. <i>Nano Letters</i> , 2016, 16, 7588-7596.	9.1	186
10	A novel nanostructured spinel ZnCo ₂ O ₄ electrode material: morphology conserved transformation from a hexagonal shaped nanodisk precursor and application in lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 4439.	6.7	185
11	Recent Progress of Thermocatalytic and Photo/Thermocatalytic Oxidation for VOCs Purification over Manganese-based Oxide Catalysts. <i>Environmental Science & Technology</i> , 2021, 55, 4268-4286.	10.0	185
12	Double-Layered Photoanodes from Variable-Size Anatase TiO ₂ Nanospindles: A Candidate for High-Efficiency Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3675-3679.	13.8	159
13	Sulfophilic Nickel Phosphosulfide Enabled Li ₂ S Impregnation in 3D Graphene Cages for Li-S Batteries. <i>Advanced Materials</i> , 2017, 29, 1603366.	21.0	139
14	Upcycling of Electroplating Sludge into Ultrafine Sn@C Nanorods with Highly Stable Lithium Storage Performance. <i>Nano Letters</i> , 2019, 19, 1860-1866.	9.1	139
15	High Electroactive Material Loading on a Carbon Nanotube@3D Graphene Aerogel for High-Performance Flexible All-Solid-State Asymmetric Supercapacitors. <i>Advanced Functional Materials</i> , 2017, 27, 1701122.	14.9	138
16	Facile hydrothermal preparation of hierarchically assembled, porous single-crystalline ZnO nanoplates and their application in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 1001-1006.	6.7	137
17	Removal of Congo red dye from aqueous solution with nickel-based metal-organic framework/graphene oxide composites prepared by ultrasonic wave-assisted ball milling. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 845-852.	8.2	126
18	A composite material of uniformly dispersed sulfur on reduced graphene oxide: Aqueous one-pot synthesis, characterization and excellent performance as the cathode in rechargeable lithium-sulfur batteries. <i>Nano Research</i> , 2012, 5, 726-738.	10.4	116

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19	Engineering Cobalt Oxide with Coexisting Cobalt Defects and Oxygen Vacancies for Enhanced Catalytic Oxidation of Toluene. <i>ACS Catalysis</i> , 2022, 12, 4906-4917.	11.2	116
20	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6406-6410.	13.8	106
21	A three-dimensional hexagonal fluorine-doped tin oxide nanocone array: a superior light harvesting electrode for high performance photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2014, 7, 3651-3658.	30.8	103
22	Ultra-endurance flexible all-solid-state asymmetric supercapacitors based on three-dimensionally coated MnOx nanosheets on nanoporous current collectors. <i>Nano Energy</i> , 2016, 26, 610-619.	16.0	103
23	Activating Metal Oxides Nanocatalysts for Electrocatalytic Water Oxidation by Quenching-Induced Near-Surface Metal Atom Functionality. <i>Journal of the American Chemical Society</i> , 2021, 143, 14169-14177.	13.7	101
24	Interfacial effects in hierarchically porous $\text{I}\pm\text{-MnO}_2/\text{Mn}_3\text{O}_4$ heterostructures promote photocatalytic oxidation activity. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118418.	20.2	100
25	Highly Nitridated Graphene $\text{-Li}_{2\text{S}}$ Cathodes with Stable Modulated Cycles. <i>Advanced Energy Materials</i> , 2015, 5, 1501369.	19.5	97
26	Ultrafast All-Solid-State Coaxial Asymmetric Fiber Supercapacitors with a High Volumetric Energy Density. <i>Advanced Energy Materials</i> , 2018, 8, 1702946.	19.5	86
27	Morphology-Conserved Transformations of Metal-Based Precursors to Hierarchically Porous Micro-Nanostructures for Electrochemical Energy Conversion and Storage. <i>Advanced Materials</i> , 2017, 29, 1607015.	21.0	79
28	General surfactant-free synthesis of MTiO_3 (M = Ba, Sr, Pb) perovskite nanostrips. <i>Journal of Materials Chemistry</i> , 2009, 19, 976.	6.7	61
29	All-Solid-State High-Energy Asymmetric Supercapacitors Enabled by Three-Dimensional Mixed-Valent MnO_x Nanospine and Graphene Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22172-22180.	8.0	59
30	Ultrafine tin nanocrystallites encapsulated in mesoporous carbon nanowires: scalable synthesis and excellent electrochemical properties for rechargeable lithium ion batteries. <i>Chemical Communications</i> , 2010, 46, 8359.	4.1	57
31	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. <i>Nanoscale</i> , 2014, 6, 3626-3631.	5.6	57
32	Air-Stable and Dendrite-Free Lithium Metal Anodes Enabled by a Hybrid Interphase of C_{60} and Mg. <i>Advanced Energy Materials</i> , 2020, 10, 1903292.	19.5	57
33	Integration of inverse nanocone array based bismuth vanadate photoanodes and bandgap-tunable perovskite solar cells for efficient self-powered solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19091-19097.	10.3	55
34	Morphology and property investigation of primary particulate matter particles from different sources. <i>Nano Research</i> , 2018, 11, 3182-3192.	10.4	54
35	Synthesis of graphene oxide/metal-organic frameworks hybrid materials for enhanced removal of Methylene blue in acidic and alkaline solutions. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 698-709.	3.2	46
36	Comparison Study on the Adsorption Capacity of Rhodamine B, Congo Red, and Orange II on Fe-MOFs. <i>Nanomaterials</i> , 2018, 8, 248.	4.1	45

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37	Aluminum nanopyramid array with tunable ultravioletâ€“visibleâ€“infrared wavelength plasmon resonances for rapid detection of carbohydrate antigen 199. <i>Biosensors and Bioelectronics</i> , 2016, 79, 500-507.	10.1	42
38	Stable Liâ€“Metal Deposition via a 3D Nanodiamond Matrix with Ultrahigh Young's Modulus. <i>Small Methods</i> , 2019, 3, 1900325.	8.6	40
39	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. <i>Angewandte Chemie</i> , 2016, 128, 6516-6520.	2.0	38
40	Effect of Absorbed Sulfate Poisoning on the Performance of Catalytic Oxidation of VOCs over MnO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50566-50572.	8.0	36
41	Engineering Co ³⁺ -rich crystal planes on Co ₃ O ₄ hexagonal nanosheets for CO and hydrocarbons oxidation with enhanced catalytic activity and water resistance. <i>Chemical Engineering Journal</i> , 2021, 420, 130448.	12.7	34
42	Free-Standing Black Phosphorus Thin Films for Flexible Quasi-Solid-State Micro-Supercapacitors with High Volumetric Power and Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5938-5946.	8.0	31
43	Cu ²⁺ -Decorated Porous Co ₃ O ₄ Nanosheets for Photocatalytic Oxidation of Toluene. <i>ACS Applied Nano Materials</i> , 2020, 3, 10454-10461.	5.0	31
44	Long Cycle Life and Highâ€“Rate Sodium Metal Batteries Enabled by Regulating 3D Frameworks with Artificial Solidâ€“State Interphases. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	29
45	Magnetic-field-assisted aerosol pyrolysis synthesis of iron pyrite sponge-like nanochain networks as cost-efficient counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5508-5515.	10.3	22
46	A Hydrothermally Stable Single-Atom Catalyst of Pt Supported on High-Entropy Oxide/Al ₂ O ₃ : Structural Optimization and Enhanced Catalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48764-48773.	8.0	21
47	Improved cycling stability of the capping agent-free nanocrystalline FeS ₂ cathode via an upper cut-off voltage control. <i>Journal of Materials Science</i> , 2017, 52, 2442-2451.	3.7	20
48	Boosting the electrochemical performance of hematite nanorods <i>via</i> quenching-induced metal single atom functionalization. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3492-3499.	10.3	20
49	Acid-activated layered Î-MnO ₂ promotes VOCs combustion. <i>Applied Surface Science</i> , 2022, 574, 151707.	6.1	20
50	Cu-MOF derived Cuâ€“C nanocomposites towards high performance electrochemical supercapacitors. <i>RSC Advances</i> , 2020, 10, 4621-4629.	3.6	17
51	A dual plasmonic coreâ€“shell Pt/[TiN@TiO ₂] catalyst for enhanced photothermal synergistic catalytic activity of VOCs abatement. <i>Nano Research</i> , 2022, 15, 7071-7080.	10.4	17
52	Dendrite-free and air-stable lithium metal batteries enabled by electroless plating with aluminum fluoride. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9218-9227.	10.3	16
53	Highly Stabilized Silicon Nanoparticles for Lithium Storage <i>via</i> Hierarchical Carbon Architecture. <i>ACS Applied Energy Materials</i> , 2020, 3, 4777-4786.	5.1	15
54	Unveiling the water-resistant mechanism of Cu(I)-O-Co interfaces for catalytic oxidation. <i>Chemical Engineering Journal</i> , 2022, 429, 132219.	12.7	15

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55	Bulk Heterojunction Quasi-Two-Dimensional Perovskite Solar Cell with 1.18 V High Photovoltage. ACS Applied Materials & Interfaces, 2019, 11, 2935-2943.	8.0	13
56	Quenching-induced surface modulation of perovskite oxides to boost catalytic oxidation activity. Journal of Hazardous Materials, 2022, 433, 128765.	12.4	12
57	Self-assembly of Ni2P nanowires as high-efficiency electrocatalyst for dye-sensitized solar cells. MRS Communications, 2012, 2, 97-99.	1.8	7
58	Exploratory Study of Zn _x PbO _y Photoelectrodes for Unassisted Overall Solar Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 10918-10926.	8.0	7
59	Challenges, mitigation strategies and perspectives in development of Li metal anode. Nano Select, 2020, 1, 622-638.	3.7	4
60	Boosting Electrochemical Performance of Hematite Nanorods via Quenching-Induced Alkaline Earth Metal Ion Doping. Processes, 2021, 9, 1102.	2.8	2
61	Synthesis and high lithium electroactivity of rutile TiO ₂ @C nanorods. , 2010, , .		1
62	Lithium Dendrites: Liquid-Phase Electrochemical Scanning Electron Microscopy for In Situ Investigation of Lithium Dendrite Growth and Dissolution (Adv. Mater. 13/2017). Advanced Materials, 2017, 29, .	21.0	1
63	Lithium Batteries: Highly Nitridated Graphene-Li ₂ S Cathodes with Stable Modulated Cycles (Adv.) Tj ETQq1 1 0.784314 rgBT /Overloc 19.5	19.5	0