

# 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	Unveiling the water-resistant mechanism of Cu(I)-O-Co interfaces for catalytic oxidation. Chemical Engineering Journal, 2022, 429, 132219.	12.7	15
2	Acid-activated layered $\gamma$ -MnO <sub>2</sub> promotes VOCs combustion. Applied Surface Science, 2022, 574, 151707.	6.1	20
3	Long Cycle Life and High-Rate Sodium Metal Batteries Enabled by Regulating 3D Frameworks with Artificial Solid-State Interphases. Advanced Energy Materials, 2022, 12, .	19.5	29
4	Quenching-induced surface modulation of perovskite oxides to boost catalytic oxidation activity. Journal of Hazardous Materials, 2022, 433, 128765.	12.4	12
5	Engineering Cobalt Oxide with Coexisting Cobalt Defects and Oxygen Vacancies for Enhanced Catalytic Oxidation of Toluene. ACS Catalysis, 2022, 12, 4906-4917.	11.2	116
6	A dual plasmonic core-shell Pt/[TiN@TiO <sub>2</sub> ] catalyst for enhanced photothermal synergistic catalytic activity of VOCs abatement. Nano Research, 2022, 15, 7071-7080.	10.4	17
7	Recent Progress of Thermocatalytic and Photo/Thermocatalytic Oxidation for VOCs Purification over Manganese-based Oxide Catalysts. Environmental Science & Technology, 2021, 55, 4268-4286.	10.0	185
8	Boosting Electrochemical Performance of Hematite Nanorods via Quenching-Induced Alkaline Earth Metal Ion Doping. Processes, 2021, 9, 1102.	2.8	2
9	Activating Metal Oxides Nanocatalysts for Electrocatalytic Water Oxidation by Quenching-Induced Near-Surface Metal Atom Functionality. Journal of the American Chemical Society, 2021, 143, 14169-14177.	13.7	101
10	Engineering Co <sup>3+</sup> -rich crystal planes on Co <sub>3</sub> O <sub>4</sub> hexagonal nanosheets for CO and hydrocarbons oxidation with enhanced catalytic activity and water resistance. Chemical Engineering Journal, 2021, 420, 130448.	12.7	34
11	Boosting the electrochemical performance of hematite nanorods <i>via</i> quenching-induced metal single atom functionalization. Journal of Materials Chemistry A, 2021, 9, 3492-3499.	10.3	20
12	A Hydrothermally Stable Single-Atom Catalyst of Pt Supported on High-Entropy Oxide/Al <sub>2</sub> O <sub>3</sub> : Structural Optimization and Enhanced Catalytic Activity. ACS Applied Materials & Interfaces, 2021, 13, 48764-48773.	8.0	21
13	Interfacial effects in hierarchically porous $\gamma$ -MnO <sub>2</sub> /Mn <sub>3</sub> O <sub>4</sub> heterostructures promote photocatalytic oxidation activity. Applied Catalysis B: Environmental, 2020, 268, 118418.	20.2	100
14	Air-Stable and Dendrite-Free Lithium Metal Anodes Enabled by a Hybrid Interphase of C <sub>60</sub> and Mg. Advanced Energy Materials, 2020, 10, 1903292.	19.5	57
15	Challenges, mitigation strategies and perspectives in development of Li metal anode. Nano Select, 2020, 1, 622-638.	3.7	4
16	Cu <sup>2+</sup> -Decorated Porous Co <sub>3</sub> O <sub>4</sub> Nanosheets for Photothermocatalytic Oxidation of Toluene. ACS Applied Nano Materials, 2020, 3, 10454-10461.	5.0	31
17	Effect of Absorbed Sulfate Poisoning on the Performance of Catalytic Oxidation of VOCs over MnO <sub>2</sub> . ACS Applied Materials & Interfaces, 2020, 12, 50566-50572.	8.0	36
18	Cu-MOF derived Cu-C nanocomposites towards high performance electrochemical supercapacitors. RSC Advances, 2020, 10, 4621-4629.	3.6	17

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19	Highly Stabilized Silicon Nanoparticles for Lithium Storage <i>via</i> Hierarchical Carbon Architecture. ACS Applied Energy Materials, 2020, 3, 4777-4786.	5.1	15
20	Dendrite-free and air-stable lithium metal batteries enabled by electroless plating with aluminum fluoride. Journal of Materials Chemistry A, 2020, 8, 9218-9227.	10.3	16
21	Upcycling of Electroplating Sludge into Ultrafine Sn@C Nanorods with Highly Stable Lithium Storage Performance. Nano Letters, 2019, 19, 1860-1866.	9.1	139
22	Stable Li-Metal Deposition via a 3D Nanodiamond Matrix with Ultrahigh Young's Modulus. Small Methods, 2019, 3, 1900325.	8.6	40
23	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
24	Free-Standing Black Phosphorus Thin Films for Flexible Quasi-Solid-State Micro-Supercapacitors with High Volumetric Power and Energy Density. ACS Applied Materials & Interfaces, 2019, 11, 5938-5946.	8.0	31
25	All-Solid-State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. Advanced Energy Materials, 2019, 9, 1802753.	19.5	197
26	Ultrafast All-Solid-State Coaxial Asymmetric Fiber Supercapacitors with a High Volumetric Energy Density. Advanced Energy Materials, 2018, 8, 1702946.	19.5	86
27	Exploratory Study of Zn<sub><i>x</i></sub>PbO<sub><i>y</i></sub> Photoelectrodes for Unassisted Overall Solar Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 10918-10926.	8.0	7
28	Synthesis of graphene oxide/metal-organic frameworks hybrid materials for enhanced removal of Methylene blue in acidic and alkaline solutions. Journal of Chemical Technology and Biotechnology, 2018, 93, 698-709.	3.2	46
29	Morphology and property investigation of primary particulate matter particles from different sources. Nano Research, 2018, 11, 3182-3192.	10.4	54
30	Comparison Study on the Adsorption Capacity of Rhodamine B, Congo Red, and Orange II on Fe-MOFs. Nanomaterials, 2018, 8, 248.	4.1	45
31	Electrospun core-shell microfiber separator with thermal-triggered flame-retardant properties for lithium-ion batteries. Science Advances, 2017, 3, e1601978.	10.3	245
32	Sulfiphilic Nickel Phosphosulfide Enabled Li<sub>2</sub>S Impregnation in 3D Graphene Cages for Li-S Batteries. Advanced Materials, 2017, 29, 1603366.	21.0	139
33	Quinone Electrode Materials for Rechargeable Lithium/Sodium Ion Batteries. Advanced Energy Materials, 2017, 7, 1700278.	19.5	268
34	Fully-Inorganic Trihalide Perovskite Nanocrystals: A New Research Frontier of Optoelectronic Materials. Advanced Materials, 2017, 29, 1700775.	21.0	230
35	High Electroactive Material Loading on a Carbon Nanotube@3D Graphene Aerogel for High-Performance Flexible All-Solid-State Asymmetric Supercapacitors. Advanced Functional Materials, 2017, 27, 1701122.	14.9	138
36	Morphology-Conserved Transformations of Metal-Based Precursors to Hierarchically Porous Micro-Nanostructures for Electrochemical Energy Conversion and Storage. Advanced Materials, 2017, 29, 1607015.	21.0	79

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37	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
38	Improved cycling stability of the capping agent-free nanocrystalline FeS <sub>2</sub> cathode via an upper cut-off voltage control. Journal of Materials Science, 2017, 52, 2442-2451.	3.7	20
39	Integration of inverse nanocone array based bismuth vanadate photoanodes and bandgap-tunable perovskite solar cells for efficient self-powered solar water splitting. Journal of Materials Chemistry A, 2017, 5, 19091-19097.	10.3	55
40	Removal of Congo red dye from aqueous solution with nickel-based metal-organic framework/graphene oxide composites prepared by ultrasonic wave-assisted ball milling. Ultrasonics Sonochemistry, 2017, 39, 845-852.	8.2	126
41	In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. Nano Letters, 2016, 16, 7588-7596.	9.1	186
42	Efficient solar-driven water splitting by nanocone BiVO <sub>4</sub> -perovskite tandem cells. Science Advances, 2016, 2, e1501764.	10.3	351
43	Ultra-endurance flexible all-solid-state asymmetric supercapacitors based on three-dimensionally coated MnOx nanosheets on nanoporous current collectors. Nano Energy, 2016, 26, 610-619.	16.0	103
44	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. Angewandte Chemie, 2016, 128, 6516-6520.	2.0	38
45	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 6406-6410.	13.8	106
46	Aluminum nanopyramid array with tunable ultraviolet-“visible”-infrared wavelength plasmon resonances for rapid detection of carbohydrate antigen 199. Biosensors and Bioelectronics, 2016, 79, 500-507.	10.1	42
47	Lithium Batteries: Highly Nitridated Graphene-Li <sub>2</sub> S Cathodes with Stable Modulated Cycles (Adv.) Tj ETQq1 1 0.784314 rgBT /Overloc	19.5	97
48	Highly Nitridated Graphene-Li <sub>2</sub> S Cathodes with Stable Modulated Cycles. Advanced Energy Materials, 2015, 5, 1501369.	19.5	97
49	All-Solid-State High-Energy Asymmetric Supercapacitors Enabled by Three-Dimensional Mixed-Valent MnO <sub>x</sub> Nanospine and Graphene Electrodes. ACS Applied Materials & Interfaces, 2015, 7, 22172-22180.	8.0	59
50	Magnetic-field-assisted aerosol pyrolysis synthesis of iron pyrite sponge-like nanochain networks as cost-efficient counter electrodes in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 5508-5515.	10.3	22
51	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. Nanoscale, 2014, 6, 3626-3631.	5.6	57
52	A three-dimensional hexagonal fluorine-doped tin oxide nanocone array: a superior light harvesting electrode for high performance photoelectrochemical water splitting. Energy and Environmental Science, 2014, 7, 3651-3658.	30.8	103
53	Efficient Photoelectrochemical Water Splitting with Ultrathin films of Hematite on Three-Dimensional Nanophotonic Structures. Nano Letters, 2014, 14, 2123-2129.	9.1	307
54	Self-assembly of Ni <sub>2</sub> P nanowires as high-efficiency electrocatalyst for dye-sensitized solar cells. MRS Communications, 2012, 2, 97-99.	1.8	7

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55	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
56	High performance supercapacitors based on highly conductive nitrogen-doped graphene sheets. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12554.	2.8	273
57	Double-layered Photoanodes from Variable-size Anatase TiO <sub>2</sub> Nanospindles: A Candidate for High-efficiency Dye-sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3675-3679.	13.8	159
58	Synthesis and high lithium electroactivity of rutile TiO <sub>2</sub> @C nanorods. , 2010, , .		1
59	Synthesis of Size-Tunable Anatase TiO <sub>2</sub> 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
60	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
61	A novel nanostructured spinel ZnCo <sub>2</sub> O <sub>4</sub> 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
62	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
63	General surfactant-free synthesis of MTiO <sub>3</sub> (M = Ba, Sr, Pb) perovskite nanostrips. <i>Journal of Materials Chemistry</i> , 2009, 19, 976.	6.7	61