Chenyang Zhao

List of Publications by Year
in descending order

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50 papers	1,883 citations	257450 24 h-index	254184 43 g-index
50 all docs	50 docs citations	50 times ranked	3215 citing authors

#	Article	IF	Citations
1	Boosting the anti-poisoning ability of palladium towards electrocatalytic formic acid oxidation via polyphosphide chemistry. Journal of Colloid and Interface Science, 2022, 615, 366-374.	9.4	8
2	Modification of Palladium Nanocrystals with Single Atom Platinum via an Electrochemical Self-Catalysis Strategy for Efficient Formic Acid Electrooxidation. ACS Applied Materials & Interfaces, 2022, 14, 8001-8009.	8.0	10
3	Power-Efficient Gas-Sensing and Synaptic Diodes Based on Lateral Pentacene/a-IGZO PN Junctions. ACS Applied Materials & Interfaces, 2022, 14, 9368-9376.	8.0	10
4	Synthesis and Modification of Tetrahedron Li10.35Si1.35P1.65S12via Elemental Doping for All-Solid-State Lithium Batteries. Frontiers in Chemistry, 2022, 10, 851264.	3.6	4
5	Boosting the sodium storage of the 1T/2H MoS₂@SnO₂ heterostructure via a fast surface redox reaction. Journal of Materials Chemistry A, 2021, 9, 463-471.	10.3	33
6	Highâ€Yield and Lowâ€Cost Solar Water Purification via Hydrogelâ€Based Membrane Distillation. Advanced Functional Materials, 2021, 31, 2101036.	14.9	90
7	Solar Water Purification: Highâ€Yield and Lowâ€Cost Solar Water Purification via Hydrogelâ€Based Membrane Distillation (Adv. Funct. Mater. 19/2021). Advanced Functional Materials, 2021, 31, 2170135.	14.9	4
8	Flexible and Filterâ€Free Colorâ€Imaging Sensors with Multicomponent Perovskites Deposited Using Enhanced Vapor Technology. Small, 2021, 17, e2007543.	10.0	15
9	Surfactant-Free Synthesis of Three-Dimensional Metallic Nanonetworks via Nanobubble-Assisted Self-Assembly. Langmuir, 2021, 37, 8323-8330.	3.5	4
10	Ruthenium decorated 2D N-doped carbon nanocone arrays for pH-universal electrocatalytic hydrogen evolution. Applied Surface Science, 2021, 559, 149978.	6.1	14
11	Boosting the water dissociation kinetics via charge redistribution of ruthenium decorated on S, N-codoped carbon. Journal of Materials Chemistry A, 2021, 9, 16967-16973.	10.3	19
12	Porous NiCo2O4 Nanowire Arrays as Supercapacitor Electrode Materials with Extremely High Cycling Stability. Chemical Research in Chinese Universities, 2020, 36, 715-720.	2.6	7
13	Phase-Controlled Synthesis of 2H/3R-MoSe₂ Nanosheets on P-Doped Carbon for Synergistic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 6516-6523.	5.0	13
14	Phase Modulation and Chemical Activation of MoSe₂ by Phosphorus for Electrocatalytic Hydrogen Evolution Reaction. Energy Technology, 2020, 8, 1901503.	3.8	16
15	Trisulfideâ€Bond Acenes for Organic Batteries. Angewandte Chemie, 2019, 131, 13647-13655.	2.0	7
16	Trisulfideâ€Bond Acenes for Organic Batteries. Angewandte Chemie - International Edition, 2019, 58, 13513-13521.	13.8	28
17	Highly porous polymer nanofibrous aerogels cross-linked via spontaneous inter-fiber stereocomplexation and their potential for capturing ultrafine airborne particles. Polymer, 2019, 179, 121649.	3.8	21
18	Electrostatic force-driven anchoring of Ni(OH)2 nanocrystallites on single-layer MoS2 for high-performance asymmetric hybrid supercapacitors. Electrochimica Acta, 2019, 320, 134591.	5.2	39

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19	Robust Photodetectable Paper from Chemically Exfoliated MoS₂â€“MoO₃ Multilayers. ACS Applied Materials & Interfaces, 2019, 11, 21445-21453.	8.0	30
20	Improving the structure stabilization of red phosphorus anodes via the shape memory effect of a Niâ€“Ti alloy for high-performance sodium ion batteries. Chemical Communications, 2019, 55, 4659-4662.	4.1	7
21	Mussel-inspired approach to cross-linked functional 3D nanofibrous aerogels for energy-efficient filtration of ultrafine airborne particles. Applied Surface Science, 2019, 479, 700-708.	6.1	28
22	Ultrafast-Freezing-Assisted Mild Preparation of Biomass-Derived, Hierarchically Porous, Activated Carbon Aerogels for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 403-411.	6.7	53
23	Mussel-inspired facile synthesis of Fe/Co-polydopamine complex nanospheres: complexation mechanism and application of the carbonized hybrid nanospheres as an efficient bifunctional electrocatalyst. New Journal of Chemistry, 2018, 42, 19494-19504.	2.8	6
24	Self-Assembly-Assisted Facile Synthesis of MoS₂-Based Hybrid Tubular Nanostructures for Efficient Bifunctional Electrocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 23731-23739.	8.0	22
25	Graphene nanoscroll/nanosheet aerogels with confined SnS2 nanosheets: simultaneous wrapping and bridging for high-performance lithium-ion battery anodes. Electrochimica Acta, 2018, 278, 156-164.	5.2	45
26	Alternately stacked metallic 1T-MoS2/polyaniline heterostructure for high-performance supercapacitors. Chemical Engineering Journal, 2017, 330, 462-469.	12.7	75
27	Fast light-induced reversible wettability of a zinc oxide nanorod array coated with a thin gold layer. Nanotechnology, 2017, 28, 445404.	2.6	4
28	One-Pot Synthesis of Fe(III)â€“Polydopamine Complex Nanospheres: Morphological Evolution, Mechanism, and Application of the Carbonized Hybrid Nanospheres in Catalysis and Znâ€“Air Battery. Langmuir, 2016, 32, 9265-9275.	3.5	78
29	One-pot synthesis of polydopamineâ€“Zn complex antifouling coatings on membranes for ultrafiltration under harsh conditions. RSC Advances, 2016, 6, 103390-103398.	3.6	26
30	Self-Assembly-Induced Alternately Stacked Single-Layer MoS₂ and N-doped Graphene: A Novel van der Waals Heterostructure for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 2372-2379.	8.0	202
31	Polydopamine-derived porous nanofibers as host of ZnFe₂O₄ nanoneedles: towards high-performance anodes for lithium-ion batteries. RSC Advances, 2015, 5, 13315-13323.	3.6	41
32	Lignin-assisted exfoliation of molybdenum disulfide in aqueous media and its application in lithium ion batteries. Nanoscale, 2015, 7, 9919-9926.	5.6	79
33	Polydopamine-assisted attachment of Î²-cyclodextrin on porous electrospun fibers for water purification under highly basic condition. Chemical Engineering Journal, 2015, 270, 101-109.	12.7	62
34	MoS₂ Nanosheets Hosted in Polydopamine-Derived Mesoporous Carbon Nanofibers as Lithium-Ion Battery Anodes: Enhanced MoS₂ Capacity Utilization and Underlying Mechanism. ACS Applied Materials & Interfaces, 2015, 7, 24279-24287.	8.0	65
35	Materials design towards sport textiles with low-friction and moisture-wicking dual functions. Materials and Design, 2015, 88, 82-87.	7.0	62
36	Dopamine-assisted one-pot synthesis of zinc ferrite-embedded porous carbon nanospheres for ultrafast and stable lithium ion batteries. Chemical Communications, 2014, 50, 14597-14600.	4.1	44

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37	Facile synthesis of porous CoFe₂O₄ nanosheets for lithium-ion battery anodes with enhanced rate capability and cycling stability. RSC Advances, 2014, 4, 27488-27492.	3.6	51
38	Nanocups-on-microtubes: a unique host towards high-performance lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 15191-15199.	10.3	23
39	The dopamineâ€“Mo^{VI} complexation-assisted large-scale aqueous synthesis of a single-layer MoS₂/carbon sandwich structure for ultrafast, long-life lithium-ion batteries. Chemical Communications, 2014, 50, 9672-9675.	4.1	69
40	Zinc ferrite nanorods coated with polydopamine-derived carbon for high-rate lithium ion batteries. Electrochimica Acta, 2014, 146, 464-471.	5.2	31
41	Mesoporous zinc ferrite/graphene composites: Towards ultra-fast and stable anode for lithium-ion batteries. Carbon, 2014, 79, 493-499.	10.3	65
42	Polydopamine-assisted synthesis of hollow NiCo₂O₄nanospheres as high-performance lithium ion battery anodes. RSC Advances, 2014, 4, 37928.	3.6	46
43	Tailoring Surface Hydrophilicity of Porous Electrospun Nanofibers to Enhance Capillary and Pushâ€“Pull Effects for Moisture Wicking. ACS Applied Materials & Interfaces, 2014, 6, 14087-14095.	8.0	108
44	Thin MoS₂ Nanoflakes Encapsulated in Carbon Nanofibers as High-Performance Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 6392-6398.	8.0	157
45	CuInZnS-decorated graphene as a high-rate durable anode for lithium-ion batteries. Journal of Power Sources, 2014, 257, 90-95.	7.8	17
46	Growth of rutile TiO₂on the convex surface of nanocylinders: from nanoneedles to nanorods and their electrochemical properties. Nanoscale, 2014, 6, 4352-4360.	5.6	16
47	Structure and properties of heatâ€resistant ABS resins innovated by NSM random copolymer. Polymer Composites, 2013, 34, 920-928.	4.6	7
48	Synthesis and characterization of heatâ€resistant Nâ€phenylmaleimideâ€“styreneâ€“maleic anhydride copolymers and application in acrylonitrileâ€“butadieneâ€“styrene resin. Journal of Applied Polymer Science, 2012, 126, 169-178.	2.6	15
49	Synthesis, Structures and Characterization of Triarm PPO-PDLAPLLA Block Copolymers and Its Stereocomplex Crystallization Behavior. Acta Chimica Sinica, 2012, 70, 881.	1.4	3
50	Recent Progress on Performance Modulation and Mechanism Study of Silicon-based Anodes. Sustainable Energy and Fuels, 0, , .	4.9	4