

Chenyang Zhao

List of Publications by Year in descending order

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papers

1,883
citations

257450

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254184

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docs citations

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times ranked

3215
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly-Induced Alternately Stacked Single-Layer MoS ₂ 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
2	Thin MoS ₂ Nanoflakes Encapsulated in Carbon Nanofibers as High-Performance Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 6392-6398.	8.0	157
3	Tailoring Surface Hydrophilicity of Porous Electrospun Nanofibers to Enhance Capillary and Push-Pull Effects for Moisture Wicking. ACS Applied Materials & Interfaces, 2014, 6, 14087-14095.	8.0	108
4	High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation. Advanced Functional Materials, 2021, 31, 2101036.	14.9	90
5	Lignin-assisted exfoliation of molybdenum disulfide in aqueous media and its application in lithium ion batteries. Nanoscale, 2015, 7, 9919-9926.	5.6	79
6	One-Pot Synthesis of Fe(III)-Polydopamine Complex Nanospheres: Morphological Evolution, Mechanism, and Application of the Carbonized Hybrid Nanospheres in Catalysis and Zn-Air Battery. Langmuir, 2016, 32, 9265-9275.	3.5	78
7	Alternately stacked metallic 1T-MoS ₂ /polyaniline heterostructure for high-performance supercapacitors. Chemical Engineering Journal, 2017, 330, 462-469.	12.7	75
8	The dopamine-Mo ^{VI} complexation-assisted large-scale aqueous synthesis of a single-layer MoS ₂ /carbon sandwich structure for ultrafast, long-life lithium-ion batteries. Chemical Communications, 2014, 50, 9672-9675.	4.1	69
9	Mesoporous zinc ferrite/graphene composites: Towards ultra-fast and stable anode for lithium-ion batteries. Carbon, 2014, 79, 493-499.	10.3	65
10	MoS ₂ Nanosheets Hosted in Polydopamine-Derived Mesoporous Carbon Nanofibers as Lithium-Ion Battery Anodes: Enhanced MoS ₂ Capacity Utilization and Underlying Mechanism. ACS Applied Materials & Interfaces, 2015, 7, 24279-24287.	8.0	65
11	Polydopamine-assisted attachment of β -cyclodextrin on porous electrospun fibers for water purification under highly basic condition. Chemical Engineering Journal, 2015, 270, 101-109.	12.7	62
12	Materials design towards sport textiles with low-friction and moisture-wicking dual functions. Materials and Design, 2015, 88, 82-87.	7.0	62
13	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
14	Facile synthesis of porous CoFe ₂ O ₄ nanosheets for lithium-ion battery anodes with enhanced rate capability and cycling stability. RSC Advances, 2014, 4, 27488-27492.	3.6	51
15	Polydopamine-assisted synthesis of hollow NiCo ₂ O ₄ nanospheres as high-performance lithium ion battery anodes. RSC Advances, 2014, 4, 37928.	3.6	46
16	Graphene nanoscroll/nanosheet aerogels with confined SnS ₂ nanosheets: simultaneous wrapping and bridging for high-performance lithium-ion battery anodes. Electrochimica Acta, 2018, 278, 156-164.	5.2	45
17	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
18	Polydopamine-derived porous nanofibers as host of ZnFe ₂ O ₄ nanoneedles: towards high-performance anodes for lithium-ion batteries. RSC Advances, 2015, 5, 13315-13323.	3.6	41

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19	Electrostatic force-driven anchoring of Ni(OH) ₂ nanocrystallites on single-layer MoS ₂ for high-performance asymmetric hybrid supercapacitors. <i>Electrochimica Acta</i> , 2019, 320, 134591.	5.2	39
20	Boosting the sodium storage of the 1T/2H MoS ₂ @SnO ₂ heterostructure via a fast surface redox reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 463-471.	10.3	33
21	Zinc ferrite nanorods coated with polydopamine-derived carbon for high-rate lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 146, 464-471.	5.2	31
22	Robust Photodetectable Paper from Chemically Exfoliated MoS ₂ –MoO ₃ Multilayers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21445-21453.	8.0	30
23	Trisulfide–Bond Acenes for Organic Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13513-13521.	13.8	28
24	Mussel-inspired approach to cross-linked functional 3D nanofibrous aerogels for energy-efficient filtration of ultrafine airborne particles. <i>Applied Surface Science</i> , 2019, 479, 700-708.	6.1	28
25	One-pot synthesis of polydopamine–Zn complex antifouling coatings on membranes for ultrafiltration under harsh conditions. <i>RSC Advances</i> , 2016, 6, 103390-103398.	3.6	26
26	Nanocups-on-microtubes: a unique host towards high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15191-15199.	10.3	23
27	Self-Assembly-Assisted Facile Synthesis of MoS ₂ -Based Hybrid Tubular Nanostructures for Efficient Bifunctional Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23731-23739.	8.0	22
28	Highly porous polymer nanofibrous aerogels cross-linked via spontaneous inter-fiber stereocomplexation and their potential for capturing ultrafine airborne particles. <i>Polymer</i> , 2019, 179, 121649.	3.8	21
29	Boosting the water dissociation kinetics via charge redistribution of ruthenium decorated on S, N-codoped carbon. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16967-16973.	10.3	19
30	CuInZnS-decorated graphene as a high-rate durable anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 257, 90-95.	7.8	17
31	Growth of rutile TiO ₂ on the convex surface of nanocylinders: from nanoneedles to nanorods and their electrochemical properties. <i>Nanoscale</i> , 2014, 6, 4352-4360.	5.6	16
32	Phase Modulation and Chemical Activation of MoSe ₂ by Phosphorus for Electrocatalytic Hydrogen Evolution Reaction. <i>Energy Technology</i> , 2020, 8, 1901503.	3.8	16
33	Synthesis and characterization of heat-resistant N-phenylmaleimide–styrene–maleic anhydride copolymers and application in acrylonitrile–butadiene–styrene resin. <i>Journal of Applied Polymer Science</i> , 2012, 126, 169-178.	2.6	15
34	Flexible and Filter-Free Color Imaging Sensors with Multicomponent Perovskites Deposited Using Enhanced Vapor Technology. <i>Small</i> , 2021, 17, e2007543.	10.0	15
35	Ruthenium decorated 2D N-doped carbon nanocone arrays for pH-universal electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2021, 559, 149978.	6.1	14
36	Phase-Controlled Synthesis of 2H/3R-MoSe ₂ Nanosheets on P-Doped Carbon for Synergistic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 6516-6523.	5.0	13

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37	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
38	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
39	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
40	Structure and properties of heat-resistant ABS resins innovated by NSM random copolymer. Polymer Composites, 2013, 34, 920-928.	4.6	7
41	Trisulfide-Bond Acenes for Organic Batteries. Angewandte Chemie, 2019, 131, 13647-13655.	2.0	7
42	Improving the structure stabilization of red phosphorus anodes via the shape memory effect of a Ni-Ti alloy for high-performance sodium ion batteries. Chemical Communications, 2019, 55, 4659-4662.	4.1	7
43	Porous NiCo ₂ O ₄ Nanowire Arrays as Supercapacitor Electrode Materials with Extremely High Cycling Stability. Chemical Research in Chinese Universities, 2020, 36, 715-720.	2.6	7
44	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
45	Fast light-induced reversible wettability of a zinc oxide nanorod array coated with a thin gold layer. Nanotechnology, 2017, 28, 445404.	2.6	4
46	Solar Water Purification: High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation (Adv. Funct. Mater. 19/2021). Advanced Functional Materials, 2021, 31, 2170135.	14.9	4
47	Surfactant-Free Synthesis of Three-Dimensional Metallic Nanonetworks via Nanobubble-Assisted Self-Assembly. Langmuir, 2021, 37, 8323-8330.	3.5	4
48	Synthesis and Modification of Tetrahedron Li _{10.35} Si _{1.35} P _{1.65} S ₁₂ via Elemental Doping for All-Solid-State Lithium Batteries. Frontiers in Chemistry, 2022, 10, 851264.	3.6	4
49	Recent Progress on Performance Modulation and Mechanism Study of Silicon-based Anodes. Sustainable Energy and Fuels, 0, , .	4.9	4
50	Synthesis, Structures and Characterization of Triarm PPO-PDLAPLLA Block Copolymers and Its Stereocomplex Crystallization Behavior. Acta Chimica Sinica, 2012, 70, 881.	1.4	3