

Xiaomin Wang

List of Publications by Year in descending order

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38
papers

1,569
citations

304743

22
h-index

345221

36
g-index

38
all docs

38
docs citations

38
times ranked

2033
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure controlled synthesis of Ni, N-codoped CoP/carbon fiber hybrids with improving reaction kinetics for superior sodium storage. <i>Journal of Materials Science and Technology</i> , 2022, 99, 184-192.	10.7	29
2	Hollow heterostructure design enables self-cleaning surface for enhanced polysulfides conversion in advanced lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1576-1584.	9.4	10
3	Co ²⁺ as a Promoter towards Modulation Surface Chemistry of PtCo Alloy on 2D Thin Layer Hierarchical Porous Nitrogen ⁻ Carbon for the Efficient Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2022, 7, .	1.5	1
4	Synergetic effect of spatially separated dual co-catalyst for accelerating multiple conversion reaction in advanced lithium sulfur batteries. <i>Nano Energy</i> , 2021, 81, 105621.	16.0	123
5	Boosting capacitive storage of cathode for lithium-ion capacitors: Combining pore structure with P-doping. <i>Electrochimica Acta</i> , 2021, 368, 137646.	5.2	24
6	Understanding the modulation effect and surface chemistry in a heteroatom incorporated graphene-like matrix toward high-rate lithium ⁻ sulfur batteries. <i>Nanoscale</i> , 2021, 13, 14777-14784.	5.6	18
7	A high-performance asymmetric supercapacitor-based (CuCo) ₂ /GA cathode and FeSe ₂ /GA anode with enhanced kinetics matching. <i>Nanoscale</i> , 2021, 13, 6489-6498.	5.6	30
8	Catalytically active sites of MOF-derived electrocatalysts: synthesis, characterization, theoretical calculations, and functional mechanisms. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20320-20344.	10.3	37
9	Three ⁻ Dimensional Graphene Network Decorated with Highly Symmetrical Cuboid Na ₃ V ₂ (PO ₄) ₂ F ₃ Particles: High Rate Capability and Cycling Stability for Sodium ⁻ Ion Batteries. <i>ChemElectroChem</i> , 2021, 8, 866-872.	3.4	18
10	A Low-Temperature Heat Output Photoactive Material-Based High-Performance Thermal Energy Storage Closed System. <i>Materials</i> , 2021, 14, 1434.	2.9	3
11	Yolk ⁻ Shell NiCo ₂ P _x as a Bidirectional Catalyst for Liquid ⁻ Solid Processes in Advanced Lithium ⁻ Sulfur Batteries. <i>ChemElectroChem</i> , 2021, 8, 1605-1611.	3.4	8
12	Electrochemical Behavior Promotion of Polysulfides by Cobalt Selenide/Carbon Cloth Interlayer in Lithium ⁻ Sulfur Batteries. <i>ChemElectroChem</i> , 2021, 8, 1531-1536.	3.4	15
13	Multifunctional FeP/Spongy Carbon Modified Separator with Enhanced Polysulfide Immobilization and Conversion for Flame ⁻ Retardant Lithium ⁻ Sulfur Batteries. <i>ChemistrySelect</i> , 2021, 6, 7098-7102.	1.5	2
14	Ionic Liquid-Mediated Mass Transport Channels for Ultrahigh Rate Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46756-46762.	8.0	6
15	Zn ⁻ Co Sulfide Microflowers Anchored on Three ⁻ Dimensional Graphene: A High ⁻ Capacitance and Long ⁻ Cycle ⁻ Life Electrode for Asymmetric Supercapacitors. <i>Chemistry - A European Journal</i> , 2020, 26, 650-658.	3.3	21
16	Hierarchical Ni ₂ P nanosheets anchored on three-dimensional graphene as self-supported anode materials towards long-life sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152751.	5.5	22
17	Sulfiphilic FeP/rGO as a highly efficient sulfur host for propelling redox kinetics toward stable lithium-sulfur battery. <i>Electrochimica Acta</i> , 2020, 364, 137117.	5.2	58
18	High-Value Utilization of Lignin To Prepare Functional Carbons toward Advanced Lithium-Ion Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11522-11531.	6.7	32

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19	Phytic acid assisted formation of P-doped hard carbon anode with enhanced capacity and rate capability for lithium ion capacitors. <i>Journal of Power Sources</i> , 2020, 474, 228500.	7.8	45
20	PGM-Free Fe/N/C and Ultralow Loading Pt/C Hybrid Cathode Catalysts with Enhanced Stability and Activity in PEM Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13739-13749.	8.0	36
21	Flexible self-supporting Ni ₂ P@N-doped carbon anode for superior rate and durable sodium-ion storage. <i>Electrochimica Acta</i> , 2019, 321, 134624.	5.2	38
22	Pseudocapacitance-Enhanced Anode of CoP@C Particles Embedded in Graphene Aerogel toward Ultralong Cycling Stability Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 5712-5720.	3.4	27
23	Self-supporting graphene aerogel electrode intensified by NiCo ₂ S ₄ nanoparticles for asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2019, 314, 32-39.	5.2	97
24	Vertically MoS ₂ on Reduced Graphene Oxide with Superior Durability for Quasi-Solid-State Supercapacitor. <i>ChemistrySelect</i> , 2019, 4, 12815-12823.	1.5	11
25	High rate capability electrode constructed by anchoring CuCo ₂ S ₄ on graphene aerogel skeleton toward quasi-solid-state supercapacitor. <i>Electrochimica Acta</i> , 2019, 298, 321-329.	5.2	68
26	Ni ₂ P Nanoflake Array/Three Dimensional Graphene Architecture as Integrated Free-Standing Anode for Boosting the Sodiation Capability and Stability. <i>ChemElectroChem</i> , 2019, 6, 404-412.	3.4	33
27	Curly hard carbon derived from pistachio shells as high-performance anode materials for sodium-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 12334-12351.	3.7	47
28	High-Performance Reversible Aqueous Zn-Ion Battery Based on Porous MnO _x Nanorods Coated by MOF-Derived N-Doped Carbon. <i>Advanced Energy Materials</i> , 2018, 8, 1801445.	19.5	430
29	Three-dimensional graphene combined with hierarchical CuS for the design of flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2017, 237, 109-118.	5.2	91
30	Two-Step Deposition/Reduction Synthesis of Porous Lamellar Ni(OH) ₂ /Reduced Graphene Oxide Composites with Large Capacitance for Supercapacitors. <i>ChemElectroChem</i> , 2017, 4, 2826-2834.	3.4	11
31	A facile one-step method to produce MoS ₂ quantum dots as promising bio-imaging materials. <i>RSC Advances</i> , 2016, 6, 25605-25610.	3.6	54
32	Enhanced rate capability of nanostructured three-dimensional graphene/Ni ₃ S ₂ composite for supercapacitor electrode. <i>Ceramics International</i> , 2016, 42, 9858-9865.	4.8	40
33	A dual-spatially-confined reservoir by packing micropores within dense graphene for long-life lithium/sulfur batteries. <i>Nanoscale</i> , 2016, 8, 2395-2402.	5.6	43
34	In vitro nucleus nanoprobe with ultra-small polyethylenimine functionalized graphene quantum dots. <i>RSC Advances</i> , 2015, 5, 75380-75385.	3.6	24
35	Effect of water content on the ethanol electro-oxidation activity of Pt-Sn/graphene catalysts prepared by the polyalcohol method. <i>Electrochimica Acta</i> , 2014, 130, 135-140.	5.2	15
36	Raman Spectroscopic Investigations of Carbon Onion by Liquid Arc. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1462-1464.	0.9	0

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37	Analysis of ultrastructures in Fe-encapsulating onion-like fullerenes. Journal of Electron Microscopy, 2006, 55, 13-16.	0.9	2
38	Synergistic effect of multifunctional Co ₃ O ₄ @C@MnO ₂ composite for enhancing redox kinetics toward stable lithium-sulfur battery. Ionics, 0, , .	2.4	0