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	Highâ€Performance Reversible Aqueous Znâ€Ion Battery Based on Porous MnO_x Nanorods Coated by MOFâ€Derived Nâ€Doped Carbon. Advanced Energy Materials, 2018, 8, 1801445.	19.5	430
2	Synergetic effect of spatially separated dual co-catalyst for accelerating multiple conversion reaction in advanced lithium sulfur batteries. Nano Energy, 2021, 81, 105621.	16.0	123
3	Self-supporting graphene aerogel electrode intensified by NiCo2S4 nanoparticles for asymmetric supercapacitor. Electrochimica Acta, 2019, 314, 32-39.	5.2	97
4	Three-dimensional graphene combined with hierarchical CuS for the design of flexible solid-state supercapacitors. Electrochimica Acta, 2017, 237, 109-118.	5.2	91
5	High rate capability electrode constructed by anchoring CuCo2S4 on graphene aerogel skeleton toward quasi-solid-state supercapacitor. Electrochimica Acta, 2019, 298, 321-329.	5.2	68
6	Sulfiphilic FeP/rGO as a highly efficient sulfur host for propelling redox kinetics toward stable lithium-sulfur battery. Electrochimica Acta, 2020, 364, 137117.	5.2	58
7	A facile one-step method to produce MoS₂quantum dots as promising bio-imaging materials. RSC Advances, 2016, 6, 25605-25610.	3.6	54
8	Curly hard carbon derived from pistachio shells as high-performance anode materials for sodium-ion batteries. Journal of Materials Science, 2018, 53, 12334-12351.	3.7	47
9	Phytic acid assisted formation of P-doped hard carbon anode with enhanced capacity and rate capability for lithium ion capacitors. Journal of Power Sources, 2020, 474, 228500.	7.8	45
10	A dual-spatially-confined reservoir by packing micropores within dense graphene for long-life lithium/sulfur batteries. Nanoscale, 2016, 8, 2395-2402.	5.6	43
11	Enhanced rate capability of nanostructured three-dimensional graphene/Ni 3 S 2 composite for supercapacitor electrode. Ceramics International, 2016, 42, 9858-9865.	4.8	40
12	Flexible self-supporting Ni2P@N-doped carbon anode for superior rate and durable sodium-ion storage. Electrochimica Acta, 2019, 321, 134624.	5.2	38
13	Catalytically active sites of MOF-derived electrocatalysts: synthesis, characterization, theoretical calculations, and functional mechanisms. Journal of Materials Chemistry A, 2021, 9, 20320-20344.	10.3	37
14	PGM-Free Fe/N/C and Ultralow Loading Pt/C Hybrid Cathode Catalysts with Enhanced Stability and Activity in PEM Fuel Cells. ACS Applied Materials & Interfaces, 2020, 12, 13739-13749.	8.0	36
15	Ni₂P Nanoflake Array/Three Dimensional Graphene Architecture as Integrated Freeâ€Standing Anode for Boosting the Sodiation Capability and Stability. ChemElectroChem, 2019, 6, 404-412.	3.4	33
16	High-Value Utilization of Lignin To Prepare Functional Carbons toward Advanced Lithium-Ion Capacitors. ACS Sustainable Chemistry and Engineering, 2020, 8, 11522-11531.	6.7	32
17	A high-performance asymmetric supercapacitor-based (CuCo)Se₂/GA cathode and FeSe₂/GA anode with enhanced kinetics matching. Nanoscale, 2021, 13, 6489-6498.	5.6	30
18	Microstructure controlled synthesis of Ni, N-codoped CoP/carbon fiber hybrids with improving reaction kinetics for superior sodium storage. Journal of Materials Science and Technology, 2022, 99, 184-192.	10.7	29

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19	Pseudocapacitanceâ€Enhanced Anode of CoP@C Particles Embedded in Graphene Aerogel toward Ultralong Cycling Stability Sodiumâ€Ion Batteries. ChemElectroChem, 2019, 6, 5712-5720.	3.4	27
20	In vitro nucleus nanoprobe with ultra-small polyethylenimine functionalized graphene quantum dots. RSC Advances, 2015, 5, 75380-75385.	3.6	24
21	Boosting capacitive storage of cathode for lithium-ion capacitors: Combining pore structure with P-doping. Electrochimica Acta, 2021, 368, 137646.	5.2	24
22	Hierarchical Ni2P nanosheets anchored on three-dimensional graphene as self-supported anode materials towards long-life sodium-ion batteries. Journal of Alloys and Compounds, 2020, 817, 152751.	5.5	22
23	Znâ€“Co Sulfide Microflowers Anchored on Threeâ€Dimensional Graphene: A Highâ€Capacitance and Longâ€Cycleâ€Life Electrode for Asymmetric Supercapacitors. Chemistry - A European Journal, 2020, 26, 650-658.	3.3	21
24	Understanding the modulation effect and surface chemistry in a heteroatom incorporated graphene-like matrix toward high-rate lithiumâ€“sulfur batteries. Nanoscale, 2021, 13, 14777-14784.	5.6	18
25	Threeâ€Dimensional Graphene Network Decorated with Highly Symmetrical Cuboid Na₃V₂(PO₄)₂F₃ Particles: High Rate Capability and Cycling Stability for Sodiumâ€Ion Batteries. ChemElectroChem, 2021, 8, 866-872.	3.4	18
26	Effect of water content on the ethanol electro-oxidation activity of Pt-Sn/graphene catalysts prepared by the polyalcohol method. Electrochimica Acta, 2014, 130, 135-140.	5.2	15
27	Electrochemical Behavior Promotion of Polysulfides by Cobalt Selenide/Carbon Cloth Interlayer in Lithiumâ€'Sulfur Batteries. ChemElectroChem, 2021, 8, 1531-1536.	3.4	15
28	Twoâ€Step Deposition/Reduction Synthesis of Porous Lamellar Î²â€Ni(OH)₂/Reduced Graphene Oxide Composites with Large Capacitance for Supercapacitors. ChemElectroChem, 2017, 4, 2826-2834.	3.4	11
29	Vertically MoS₂ on Reduced Graphene Oxide with Superior Durability for Quasiâ€solidâ€state Supercapacitor. ChemistrySelect, 2019, 4, 12815-12823.	1.5	11
30	Hollow heterostructure design enables self-cleaning surface for enhanced polysulfides conversion in advanced lithium-sulfur batteries. Journal of Colloid and Interface Science, 2022, 608, 1576-1584.	9.4	10
31	Yolkâ€Shell NiCo₂P_X as a Bidirectional Catalyst for Liquidâ€Solid Processes in Advanced Lithiumâ€Sulfur Batteries. ChemElectroChem, 2021, 8, 1605-1611.	3.4	8
32	Ionic Liquid-Mediated Mass Transport Channels for Ultrahigh Rate Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 46756-46762.	8.0	6
33	A Low-Temperature Heat Output Photoactive Material-Based High-Performance Thermal Energy Storage Closed System. Materials, 2021, 14, 1434.	2.9	3
34	Analysis of ultrastructures in Fe-encapsulating onion-like fullerenes. Journal of Electron Microscopy, 2006, 55, 13-16.	0.9	2
35	Multifunctional FeP/Spongy Carbon Modified Separator with Enhanced Polysulfide Immobilization and Conversion for Flameâ€Retardant Lithiumâ€Sulfur Batteries. ChemistrySelect, 2021, 6, 7098-7102.	1.5	2
36	Coâ€N as a Promoter towards Modulation Surface Chemistry of PtCo Alloy on 2D Thin Layer Hierarchical Porous Nitrogenâ€Carbon for the Efficient Oxygen Reduction Reaction. ChemistrySelect, 2022, 7, .	1.5	1

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37	Raman Spectroscopic Investigations of Carbon Onion by Liquid Arc. Journal of Nanoscience and Nanotechnology, 2009, 9, 1462-1464.	0.9	0
38	Synergistic effect of multifunctional Co3O4@C@MnO2 composite for enhancing redox kinetics toward stable lithium-sulfur battery. Ionics, 0, , .	2.4	0