

Wei Du

List of Publications by Year in descending order

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72
papers

4,015
citations

126858

33
h-index

118793

62
g-index

72
all docs

72
docs citations

72
times ranked

3445
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological cell template synthesis of nitrogen-doped porous hollow carbon spheres/MnO ₂ composites for high-performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2019, 296, 907-915.	2.6	365
2	Recent advances in transition metal oxides with different dimensions as electrodes for high-performance supercapacitors. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 906-924.	9.9	281
3	Quasi-Isolated Au Particles as Heterogeneous Seeds To Guide Uniform Zn Deposition for Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 6490-6496.	2.5	247
4	One-pot synthesized molybdenum dioxide@molybdenum carbide heterostructures coupled with 3D holey carbon nanosheets for highly efficient and ultrastable cycling lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13460-13472.	5.2	220
5	Recent progress in cathode catalyst for nonaqueous lithium oxygen batteries: a review. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 606-626.	9.9	165
6	Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2018, 402, 281-295.	4.0	160
7	Spinel structured MFe ₂ O ₄ (M=Fe, Co, Ni, Mn, Zn) and their composites for microwave absorption: A review. <i>Chemical Engineering Journal</i> , 2022, 428, 131160.	6.6	143
8	Agaric-like anodes of porous carbon decorated with MoO ₂ nanoparticles for stable ultralong cycling lifespan and high-rate lithium/sodium storage. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 396-407.	5.0	129
9	Phase and morphology evolution of high dielectric CoO/Co ₃ O ₄ particles with Co ₃ O ₄ nanoneedles on surface for excellent microwave absorption application. <i>Chemical Engineering Journal</i> , 2020, 396, 125205.	6.6	113
10	Willow-Leaf-Like ZnSe@N-Doped Carbon Nanoarchitecture as a Stable and High-Performance Anode Material for Sodium-Ion and Potassium-Ion Batteries. <i>Small</i> , 2020, 16, e2004580.	5.2	106
11	Efficient microwave absorber and supercapacitors derived from puffed-rice-based biomass carbon: Effects of activating temperature. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 290-303.	5.0	99
12	Review on Carbon/Polyaniline Hybrids: Design and Synthesis for Supercapacitor. <i>Molecules</i> , 2019, 24, 2263.	1.7	98
13	MnO ₂ /Carbon Composites for Supercapacitor: Synthesis and Electrochemical Performance. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	98
14	Nitrogen-doped hierarchical porous carbon using biomass-derived activated carbon/carbonized polyaniline composites for supercapacitor electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 213-220.	1.9	94
15	Oxidative degradation of phenols and substituted phenols in the water and atmosphere: a review. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 627-640.	9.9	87
16	Morphology controlled hierarchical NiS/carbon hexahedrons derived from nitrilotriacetic acid-assembly strategy for high-performance hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 433, 133673.	6.6	76
17	Co ₃ O ₄ nanoparticle-dotted hierarchical-assembled carbon nanosheet framework catalysts with the formation/decomposition mechanisms of Li ₂ O ₂ for smart lithium-oxygen batteries. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1115-1124.	3.0	76
18	Enhanced microwave absorption properties of Fe ₃ C/C nanofibers prepared by electrospinning. <i>Journal of Alloys and Compounds</i> , 2019, 804, 305-313.	2.8	75

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19	One-step synthesis of the reduced graphene oxide@NiO composites for supercapacitor electrodes by electrode-assisted plasma electrolysis. <i>Materials and Design</i> , 2020, 196, 109111.	3.3	67
20	Embedding NiS nanoflakes in electrospun carbon fibers containing NiS nanoparticles for hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 446, 137262.	6.6	66
21	Recent advances in hydrogen generation process via hydrolysis of Mg-based materials: A short review. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152634.	2.8	65
22	Controlled chelation between tannic acid and Fe precursors to obtain N, S co-doped carbon with high density Fe-single atom-nanoclusters for highly efficient oxygen reduction reaction in Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17136-17149.	5.2	64
23	Establishing High-Performance Quasi-Solid Zn/I ₂ Batteries with Alginate-Based Hydrogel Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24756-24764.	4.0	64
24	Recent Advances in Co ₃ O ₄ as Anode Materials for High-Performance Lithium-Ion Batteries. <i>Engineered Science</i> , 2020, , .	1.2	62
25	First-principles studies in Mg-based hydrogen storage Materials: A review. <i>Energy</i> , 2020, 211, 118959.	4.5	60
26	TiN/Al ₂ O ₃ binary ceramics for negative permittivity metacomposites at kHz frequencies. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157499.	2.8	60
27	NiS nanoparticles assembled on biological cell walls-derived porous hollow carbon spheres as a novel battery-type electrode for hybrid supercapacitor. <i>Journal of Materials Science</i> , 2020, 55, 14431-14446.	1.7	56
28	Size Control Synthesis of Monodisperse, Quasi-Spherical Silver Nanoparticles To Realize Surface-Enhanced Raman Scattering Uniformity and Reproducibility. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17637-17646.	4.0	55
29	Fabrication of ultrathin single-layer 2D metal-organic framework nanosheets with excellent adsorption performance via a facile exfoliation approach. <i>Journal of Materials Chemistry A</i> , 2021, 9, 546-555.	5.2	55
30	Oral magnetite nanoparticles disturb the development of <i>Drosophila melanogaster</i> from oogenesis to adult emergence. <i>Nanotoxicology</i> , 2015, 9, 302-312.	1.6	43
31	Improved electrochemical performance of 2D accordion-like MnV ₂ O ₆ nanosheets as anode materials for Li-ion batteries. <i>Dalton Transactions</i> , 2020, 49, 1794-1802.	1.6	41
32	A Long-Life Battery-Type Electrochromic Window with Remarkable Energy Storage Ability. <i>Solar Rrl</i> , 2020, 4, 1900425.	3.1	37
33	Facile synthesis of lotus seedpod-based 3D hollow porous activated carbon/manganese dioxide composite for supercapacitor electrode. <i>Journal of Electroanalytical Chemistry</i> , 2019, 853, 113561.	1.9	34
34	Microwave absorption properties of microporous CoNi@(NiO-CoO) nanoparticles through dealloying. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 503, 166631.	1.0	33
35	Simple synthesis and surface facet-tuning of ultrathin alloy-shells of Au@AuPd nanoparticles via silver-assisted co-reduction onto facet-controlled Au nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7675-7685.	5.2	28
36	Fe ultra-small particles anchored on carbon aerogels to enhance the oxygen reduction reaction in Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6861-6871.	5.2	28

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37	A Long-Life Battery-Type Electrochromic Window with Remarkable Energy Storage Ability. <i>Solar Rrl</i> , 2020, 4, 2070036.	3.1	27
38	Carbonized Enteromorpha prolifera with porous architecture and its polyaniline composites as high-performance electrode materials for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2017, 802, 15-21.	1.9	26
39	Regulating Surface Facets of Metallic Aerogel Electrocatalysts by Size-Dependent Localized Ostwald Ripening. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23081-23093.	4.0	26
40	Compressive Strain in Core-Shell Au-Pd Nanoparticles Introduced by Lateral Confinement of Deformation Twinnings to Enhance the Oxidation Reduction Reaction Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46902-46911.	4.0	25
41	Ultrasensitive and Selective Detection of Uranium by a Luminescent Terbium-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51086-51094.	4.0	24
42	Facile synthesis of various Co ₃ O ₄ /bio-activated carbon electrodes for hybrid capacitor device application. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161967.	2.8	22
43	Enhancing hydrogen evolution of MoS ₂ basal planes by combining single-boron catalyst and compressive strain. <i>Frontiers of Physics</i> , 2020, 15, 1.	2.4	20
44	Adsorption Behavior of Environmental Gas Molecules on Pristine and Defective MoSi ₂ N ₄ : Possible Application as Highly Sensitive and Reusable Gas Sensors. <i>ACS Omega</i> , 2022, 7, 8706-8716.	1.6	20
45	TM ₃ (TM=V, Fe, Mo, W) single-cluster catalyst confined on porous BN for electrocatalytic nitrogen reduction. <i>Journal of Materials Science and Technology</i> , 2022, 108, 46-53.	5.6	19
46	Large-Area Monolayer Films of Hexagonal Close-Packed Au@Ag Nanoparticles as Substrates for SERS-Based Quantitative Determination. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13480-13489.	4.0	19
47	Defective Fe ₃ GeTe ₂ monolayer as a promising electrocatalyst for spontaneous nitrogen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6945-6954.	5.2	18
48	Zn-Ce based bimetallic organic frameworks derived ZnSe/CeO ₂ nanoparticles encapsulated by reduced graphene oxide for enhanced sodium-ion and lithium-ion storage. <i>Journal of Alloys and Compounds</i> , 2021, 875, 159903.	2.8	18
49	Novel three-dimensional polyaniline nanothorns vertically grown on buckypaper as high-performance supercapacitor electrode. <i>Nanotechnology</i> , 2019, 30, 325401.	1.3	17
50	Multiple reflection and scattering effects of the lotus seedpod-based activated carbon decorated with Co ₃ O ₄ microwave absorbent. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 344-354.	5.0	16
51	Fe ₃ O ₄ Hollow Nanosphere-Coated Spherical-Graphite Composites: A High-Rate Capacity and Ultra-Long Cycle Life Anode Material for Lithium Ion Batteries. <i>Nanomaterials</i> , 2019, 9, 996.	1.9	15
52	Dielectric parameters of activated carbon derived from rosewood and corncob. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18077-18084.	1.1	14
53	Recycled Carbon Fiber-Supported Polyaniline/Manganese Dioxide Prepared via One-Step Electrodeposition for Flexible Supercapacitor Integrated Electrodes. <i>Polymers</i> , 2018, 10, 1152.	2.0	13
54	SnS ₂ Nanosheets with RGO Modification as High-Performance Anode Materials for Na-Ion and K-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 1932.	1.9	13

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55	pH-Dependent growth of atomic Pd layers on trisoctahedral gold nanoparticles to realize enhanced performance in electrocatalysis and chemical catalysis. <i>Nanoscale</i> , 2018, 10, 22302-22311.	2.8	12
56	Chiffon cake-derived hierarchically porous carbon with efficient microwave absorption properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19173-19181.	1.1	12
57	Facile fabrication of Co@C nanoparticles with different carbon-shell thicknesses: high-performance microwave absorber and efficient catalyst for the reduction of 4-nitrophenol. <i>CrystEngComm</i> , 2020, 22, 4591-4601.	1.3	12
58	Fabrication of Au aerogels with {110}-rich facets by size-dependent surface reconstruction for enzyme-free glucose detection. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7588-7598.	2.9	10
59	Synthesis of large gold nanoparticles with deformation twinings by one-step seeded growth with Cu(SCN)-mediated Ostwald ripening for determining nitrile and isonitrile groups. <i>Nanoscale</i> , 2020, 12, 16934-16943.	2.8	9
60	Fabrication of a Wide Color Gamut pc-WLED Surpassing 107% NTSC Based on a Robust Luminescent Uranyl Phosphate. <i>Chemistry of Materials</i> , 2021, 33, 6329-6337.	3.2	9
61	A photo-/thermo-dual-responsive $\text{Cs}_x\text{WO}_3/\text{PNIPAM}$ composite hydrogel for energy-efficient windows. <i>Materials Research Express</i> , 2019, 6, 085708.	0.8	7
62	Ratiometric recognition of humidity by a europium-organic framework equipped with quasi-open metal site. <i>Science China Chemistry</i> , 2021, 64, 1723-1729.	4.2	7
63	Efficient exfoliation method of sodium-ruthenium composites for acid water oxidation. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2536-2545.	9.9	7
64	A novel $(\text{Li}^+\text{I}^-)\text{NiS}/\text{Ni}_3\text{S}_4\text{-rGO}$ electrode material for supercapacitors. <i>Colloids and Interface Science Communications</i> , 2021, 43, 100453.	2.0	6
65	S-doped AuPd aerogels as high efficiency catalysts for the oxygen reduction reaction by balancing the ratio between bridging $\text{S}_{\text{sub}2\text{sup}2}$ and apical $\text{S}_{\text{sup}2}$ ligands. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7800-7810.	5.2	5
66	One-Step Synthesis of Popcorn Carbon/Co O_3 Composites as High-Performance Supercapacitor Electrodes. <i>Crystals</i> , 2022, 12, 76.	1.0	4
67	Extended shear bands in interior of Pd-based bulk metallic glasses. <i>Rare Metals</i> , 2018, 37, 54-58.	3.6	3
68	N-Doped celery-based biomass carbon with tunable Co_3O_4 loading for enhanced-performance of solid-state supercapacitors. <i>New Journal of Chemistry</i> , 2022, 46, 6921-6931.	1.4	3
69	Realization of the dehydrogenation pathway of formic acid oxidation by ultra-small core-shell Au-Pt nanoparticles with discrete Pt shells. <i>Materials Advances</i> , 2022, 3, 2786-2792.	2.6	3
70	Wide microwave absorption bandwidth of the puffed-rice-based carbon obtained at 950°C. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	1.1	3
71	Facile synthesis of cobalt-doped $\text{Ni}_3(\text{NO}_3)_2(\text{OH})_4$ porous nanosheets for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 17284-17294.	1.1	1
72	Interaction of Humic Acid with Graphene Oxide: Relation to Antibacterial Activities Against <i>Escherichia coli</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 1430-1438.	0.9	0