

Xiaodong Hao

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,663
citations

393982

19
h-index

288905

40
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51
all docs

51
docs citations

51
times ranked

2315
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional porous MXene/layered double hydroxide composite for high performance supercapacitors. <i>Journal of Power Sources</i> , 2016, 327, 221-228.	4.0	253
2	Nickel-Manganese Layered Double Hydroxide Nanosheets Supported on Nickel Foam for High-performance Supercapacitor Electrode Materials. <i>Electrochimica Acta</i> , 2016, 194, 179-186.	2.6	208
3	Amorphous/Crystalline Heterostructured Cobalt-Vanadium-Iron (Oxy)hydroxides for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2020, 10, 2002215.	10.2	198
4	Atomic-Scale Valence State Distribution inside Ultrafine CeO ₂ Nanocubes and Its Size Dependence. <i>Small</i> , 2018, 14, e1802915.	5.2	77
5	pH-Dependent Degradation of Methylene Blue via Rational-Designed MnO ₂ Nanosheet-Decorated Diatomites. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 6966-6977.	1.8	65
6	Preparation, characterization and dye adsorption of Au nanoparticles/ZnAl layered double oxides nanocomposites. <i>Applied Surface Science</i> , 2013, 283, 505-512.	3.1	64
7	Layer-by-layer self-assembled two-dimensional MXene/layered double hydroxide composites as cathode for alkaline hybrid batteries. <i>Journal of Power Sources</i> , 2018, 390, 208-214.	4.0	56
8	Rational design of hierarchically porous birnessite-type manganese dioxides nanosheets on different one-dimensional titania-based nanowires for high performance supercapacitors. <i>Journal of Power Sources</i> , 2014, 270, 675-683.	4.0	54
9	Engineering birnessite-type MnO ₂ nanosheets on fiberglass for pH-dependent degradation of methylene blue. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 83, 40-46.	1.9	50
10	Facile synthesis of CoAl-LDH/MnO ₂ hierarchical nanocomposites for high-performance supercapacitors. <i>Ceramics International</i> , 2014, 40, 2115-2120.	2.3	49
11	One-pot controllable synthesis of flower-like CoFe ₂ O ₄ /FeOOH nanocomposites for high-performance supercapacitors. <i>Materials Letters</i> , 2014, 123, 229-234.	1.3	47
12	Fe-doping induced localized amorphization in ultrathin γ -Ni(OH) ₂ nanomesh for superior oxygen evolution reaction catalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14372-14380.	5.2	44
13	Ni/Mn and Al Dual Concentration-Gradients To Mitigate Voltage Decay and Capacity Fading of Li-Rich Layered Cathodes. <i>ACS Energy Letters</i> , 2021, 6, 2755-2764.	8.8	42
14	Controlled deposition of Au on (BiO) ₂ CO ₃ microspheres: the size and content of Au nanoparticles matter. <i>Dalton Transactions</i> , 2015, 44, 8805-8811.	1.6	34
15	MnO _x -modified ZnAl-LDOs as high-performance adsorbent for the removal of methyl orange. <i>Dalton Transactions</i> , 2014, 43, 6667-6676.	1.6	32
16	Organic molecule confinement reaction for preparation of the Sn nanoparticles@graphene anode materials in Lithium-ion battery. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 308-317.	5.0	25
17	Cluster Nanozymes with Optimized Reactivity and Utilization of Active Sites for Effective Peroxidase (and Oxidase) Mimicking. <i>Small</i> , 2022, 18, e2104844.	5.2	25
18	Direct Imaging for Single Molecular Chain of Surfactant on CeO ₂ Nanocrystals. <i>Small</i> , 2018, 14, e1801093.	5.2	23

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19	Engineering one-dimensional and two-dimensional birnessite manganese dioxides on nickel foam-supported cobalt-aluminum layered double hydroxides for advanced binder-free supercapacitors. <i>RSC Advances</i> , 2014, 4, 63901-63908.	1.7	21
20	Facile biphasic synthesis of TiO ₂ -MnO ₂ nanocomposites for photocatalysis. <i>Ceramics International</i> , 2016, 42, 19425-19428.	2.3	19
21	One-step synthesis of CeFeO ₃ nanoparticles on porous nanocarbon frameworks derived from ZIF-8 for a boosted oxygen reduction reaction in pH universal electrolytes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13013-13020.	5.2	19
22	Self-assembled spongy-like MnO ₂ electrode materials for supercapacitors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 45, 103-108.	1.3	18
23	Atomistic origin of high-concentration Ce ³⁺ in {100}-faceted Cr-substituted CeO ₂ nanocrystals. <i>Acta Materialia</i> , 2021, 203, 116473.	3.8	18
24	Defect-engineered ultrathin NiMoO ₄ nanomeshes as efficient and stable electrocatalysts for overall water splitting. <i>Ceramics International</i> , 2021, 47, 19098-19105.	2.3	18
25	A Novel Approach to Enhance Bone Regeneration by Controlling the Polarity of GaN/AlGaN Heterostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2007487.	7.8	17
26	Modifying energy storage performances of new lead-free system ferroelectric capacitors through interfacial stress. <i>Applied Surface Science</i> , 2021, 559, 149992.	3.1	15
27	Controllable preparation of crystalline red phosphorus and its photocatalytic properties. <i>Nanoscale</i> , 2021, 13, 18955-18960.	2.8	15
28	Formation dynamics of mesocrystals composed of organically modified CeO ₂ nanoparticles: analogy to a particle formation model. <i>CrystEngComm</i> , 2019, 21, 3836-3843.	1.3	14
29	Mn-doping tuned electron configuration and oxygen vacancies in NiO nanoparticles for stable electrocatalytic oxygen evolution reaction. <i>Applied Surface Science</i> , 2022, 577, 151952.	3.1	14
30	Rational design of manganese dioxide decorated skeleton of colloidal mesoporous carbon nanocomposites for supercapacitors. <i>Ceramics International</i> , 2014, 40, 13381-13388.	2.3	12
31	MXene-supported NiMn-LDHs as efficient electrocatalysts towards enhanced oxygen evolution reactions. <i>Materials Advances</i> , 2022, 3, 4359-4368.	2.6	12
32	Surfactant-mediated morphology evolution and self-assembly of cerium oxide nanocrystals for catalytic and supercapacitor applications. <i>Nanoscale</i> , 2021, 13, 10393-10401.	2.8	11
33	Increasing oxygen vacancies in CeO ₂ nanocrystals by Ni doping and reduced graphene oxide decoration towards electrocatalytic hydrogen evolution. <i>CrystEngComm</i> , 2022, 24, 3369-3379.	1.3	9
34	Millimeter-scale laminar graphene matrix by organic molecule confinement reaction. <i>Carbon</i> , 2020, 161, 277-286.	5.4	8
35	Rational Design and Synthesis of Adjustable Pt and Pt-Based 3D-Nanoframeworks. <i>ACS Applied Energy Materials</i> , 2022, 5, 942-950.	2.5	8
36	SnCo Nanoalloy/Graphene Anode Constructed by Microfluidic-Assisted Nanoprecipitation for Potassium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2022, 5, 2616-2625.	2.4	8

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37	2D black arsenic phosphorus and its application for anodes of lithium ion batteries. CrystEngComm, 2020, 22, 8228-8235.	1.3	7
38	ONE-STEP AND CONTROLLABLE SELF-ASSEMBLY OF Au/TiO ₂ /CARBON SPHERES TERNARY NANOCOMPOSITES WITH A NANOPARTICLE MONOSHELL WALL. Nano, 2012, 07, 1250025.	0.5	6
39	Templated self-assembly of Au@TiO ₂ binary nanoparticles@nanotubes. Chinese Chemical Letters, 2014, 25, 874-878.	4.8	6
40	Effect of <i>in situ</i> degradation on the atomic structure and optical properties of GaN-based green light-emitting diodes. Applied Physics Letters, 2020, 117, .	1.5	6
41	Suspended hybrid films assembled from thiol-capped gold nanoparticles. Nanoscale Research Letters, 2012, 7, 295.	3.1	5
42	Low temperature photoluminescence study of GaAs defect states*. Chinese Physics B, 2020, 29, 010703.	0.7	5
43	The Surface Morphology Evolution of GaN Nucleation Layer during Annealing and Its Influence on the Crystal Quality of GaN Films. Coatings, 2021, 11, 188.	1.2	5
44	Electrochemical Performance of Graphene Oxide/Black Arsenic Phosphorus/Carbon Nanotubes as Anode Material for LIBs. Materials, 2022, 15, 4576.	1.3	5
45	The formation of island-shaped morphology on the surface of InGaN/GaN QWs and the enhancement of carrier localization effect caused by high-density V-shaped pits. Materials Science in Semiconductor Processing, 2021, 131, 105848.	1.9	4
46	Crystallization kinetics of amorphous red phosphorus to black phosphorus by chemical vapor transport. CrystEngComm, 2022, 24, 504-511.	1.3	4
47	Ultrafast synthesis of Au(I)-dodecanethiolate nanotubes for advanced Hg ²⁺ sensor electrodes. Nanoscale Research Letters, 2014, 9, 601.	3.1	3
48	Improving the internal quantum efficiency of QD/QW hybrid structures by increasing the GaN barrier thickness. RSC Advances, 2020, 10, 41443-41452.	1.7	2
49	Effect of V-Shaped pits on optical properties of GaN-Based green light-emitting diodes. Optical Materials, 2020, 107, 110129.	1.7	2
50	Interfacial polygonal patterning via surfactant-mediated self-assembly of gold nanoparticles. Nanoscale Research Letters, 2013, 8, 436.	3.1	1
51	Cerium Valence State Distribution: Atomic-Scale Valence State Distribution inside Ultrafine CeO ₂ Nanocubes and Its Size Dependence (Small 42/2018). Small, 2018, 14, 1870195.	5.2	0