Xiaopeng Hao

List of Publications by Year in descending order

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XIAODENIC HAO

#	Article	IF	CITATIONS
1	Threeâ€Dimensional MoS ₂ @CNT/RGO Network Composites for Highâ€Performance Flexible Supercapacitors. Chemistry - A European Journal, 2017, 23, 3438-3446.	3.3	166
2	Gallium Nitride Crystals: Novel Supercapacitor Electrode Materials. Advanced Materials, 2016, 28, 3768-3776.	21.0	136
3	Utilizing photocorrosion-recrystallization to prepare a highly stable and efficient CdS/WS 2 nanocomposite photocatalyst for hydrogen evolution. Applied Catalysis B: Environmental, 2016, 199, 466-472.	20.2	129
4	0D/2D nanocomposite visible light photocatalyst for highly stable and efficient hydrogen generation via recrystallization of CdS on MoS2 nanosheets. Nano Energy, 2016, 27, 466-474.	16.0	124
5	Phase junction CdS: High efficient and stable photocatalyst for hydrogen generation. Applied Catalysis B: Environmental, 2018, 221, 179-186.	20.2	111
6	Metal-free boron carbonitride with tunable boron Lewis acid sites for enhanced nitrogen electroreduction to ammonia. Applied Catalysis B: Environmental, 2021, 283, 119622.	20.2	108
7	Effective orientation control of photogenerated carrier separation via rational design of a Ti3C2(TiO2)@CdS/MoS2 photocatalytic system. Applied Catalysis B: Environmental, 2019, 242, 202-208.	20.2	99
8	Rational modulation of p-n homojunction in P-doped g-C3N4 decorated with Ti3C2 for photocatalytic overall water splitting. Applied Catalysis B: Environmental, 2019, 259, 118077.	20.2	94
9	Bimetallic NiMoN Nanowires with a Preferential Reactive Facet: An Ultraefficient Bifunctional Electrocatalyst for Overall Water Splitting. ChemSusChem, 2018, 11, 3198-3207.	6.8	91
10	Transitionâ€Metal Oxynitride: A Facile Strategy for Improving Electrochemical Capacitor Storage. Advanced Materials, 2019, 31, e1806088.	21.0	91
11	Band gap-Tunable Porous Borocarbonitride Nanosheets for High Energy-Density Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 19588-19597.	8.0	86
12	Graphene-Oxide-Assisted Synthesis of GaN Nanosheets as a New Anode Material for Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2017, 9, 26631-26636.	8.0	81
13	Self‣upporting GaN Nanowires/Graphite Paper: Novel Highâ€Performance Flexible Supercapacitor Electrodes. Small, 2017, 13, 1603330.	10.0	70
14	Potential of MXene-Based Heterostructures for Energy Conversion and Storage. ACS Energy Letters, 2022, 7, 78-96.	17.4	69
15	Improving the Quality of GaN Crystals by Using Graphene or Hexagonal Boron Nitride Nanosheets Substrate. ACS Applied Materials & Interfaces, 2015, 7, 4504-4510.	8.0	67
16	Construction of CdS@Ti3C2@CoO hierarchical tandem p-n heterojunction for boosting photocatalytic hydrogen production in pure water. Chemical Engineering Journal, 2020, 383, 123130.	12.7	67
17	Phase-transformation engineering in MoS 2 on carbon cloth as flexible binder-free anode for enhancing lithium storage. Journal of Alloys and Compounds, 2017, 716, 112-118.	5.5	66
18	Graphene-Oxide-Assisted Synthesis of Ga ₂ O ₃ Nanosheets/Reduced Graphene Oxide Nanocomposites Anodes for Advanced Alkali-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 4708-4715.	5.1	61

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19	Rational design of Schottky heterojunction with modulating surface electron density for high-performance overall water splitting. Applied Catalysis B: Environmental, 2021, 299, 120660.	20.2	58
20	Large-quantity and continuous preparation of two-dimensional nanosheets. Nanoscale, 2016, 8, 5407-5411.	5.6	52
21	Stable and Reversible Lithium Storage with High Pseudocapacitance in GaN Nanowires. ACS Applied Materials & Interfaces, 2018, 10, 2574-2580.	8.0	52
22	Band-matching transformation between CdS and BCNNTs with tunable p-n homojunction for enhanced photocatalytic pure water splitting. Nano Energy, 2020, 69, 104408.	16.0	52
23	A CoP/CdS/WS ₂ p–n–n tandem heterostructure: a novel photocatalyst for hydrogen evolution without using sacrificial agents. Journal of Materials Chemistry A, 2019, 7, 14638-14645.	10.3	49
24	Oxygen Vacancy Modulation of Bimetallic Oxynitride Anodes toward Advanced Liâ€ l on Capacitors. Advanced Functional Materials, 2020, 30, 2000350.	14.9	48
25	Self-supporting NiSe2@BCNNTs electrode for High-Performance sodium ion batteries. Chemical Engineering Journal, 2022, 437, 135421.	12.7	48
26	Regulating Phase Conversion from Ni ₃ Se ₂ into NiSe in a Bifunctional Electrocatalyst for Overall Waterâ€6plitting Enhancement. ChemSusChem, 2019, 12, 2008-2014.	6.8	46
27	Water Invoking Interface Corrosion: An Energy Density Booster for Ni//Zn Battery. Advanced Energy Materials, 2021, 11, 2003268.	19.5	46
28	Elastic sandwich-type GaN/MnO ₂ /MnON composites for flexible supercapacitors with high energy density. Journal of Materials Chemistry A, 2018, 6, 13215-13224.	10.3	45
29	Ultrasonicâ€Ball Milling: A Novel Strategy to Prepare Largeâ€Size Ultrathin 2D Materials. Small, 2020, 16, e1906734.	10.0	45
30	Direct growth of freestanding GaN on C-face SiC by HVPE. Scientific Reports, 2015, 5, 10748.	3.3	44
31	Effect of defects on adsorption characteristics of AlN monolayer towards SO2 and NO2: Ab initio exposure. Applied Surface Science, 2018, 462, 615-622.	6.1	42
32	A vanadium–nickel oxynitride layer for enhanced electrocatalytic nitrogen fixation in neutral media. Journal of Materials Chemistry A, 2020, 8, 91-96.	10.3	42
33	BCNâ€Assisted Builtâ€In Electric Field in Heterostructure: An Innovative Path for Broadening the Voltage Window of Aqueous Supercapacitor. Advanced Functional Materials, 2022, 32, 2108843.	14.9	41
34	Shuttle confinement of lithium polysulfides in borocarbonitride nanotubes with enhanced performance for lithium–sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 296-304.	10.3	40
35	Grapheneâ€Assisted Exfoliation of Molybdenum Disulfide to Fabricate 2D Heterostructure for Enhancing Lithium Storage. Advanced Materials Interfaces, 2017, 4, 1601187.	3.7	38
36	One-step fabrication of porous GaN crystal membrane and its application in energy storage. Scientific Reports, 2017, 7, 44063.	3.3	38

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37	Hollow submicrospheres of trimetallic selenides for high-capacity lithium and sodium ion batteries. Chemical Engineering Journal, 2021, 405, 126724.	12.7	38
38	Photo-enhanced electrocatalysis of sea-urchin shaped Ni ₃ (VO ₄) ₂ for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 18038-18043.	10.3	37
39	MXene decorated by phosphorus-doped TiO2 for photo-enhanced electrocatalytic hydrogen evolution reaction. Renewable Energy, 2021, 170, 858-865.	8.9	37
40	Potassium Hydroxide/Dimethyl Sulfoxide Superbaseâ€Promoted Transition Metalâ€Free Synthesis of 2‣ubstituted Benzothiophenes under Visible Light. Advanced Synthesis and Catalysis, 2016, 358, 1202-1207.	4.3	36
41	Type II cuprous oxide/graphitic carbon nitride p-n heterojunctions for enhanced photocatalytic nitrogen fixation. Journal of Catalysis, 2021, 395, 273-281.	6.2	36
42	Quinone-Mediated Trifluoromethylation of Arenes and Heteroarenes with Visible Light. ACS Sustainable Chemistry and Engineering, 2017, 5, 334-341.	6.7	33
43	From bulk to porous GaN crystal: precise structural control and its application in ultraviolet photodetectors. Journal of Materials Chemistry C, 2019, 7, 14116-14122.	5.5	33
44	p–n tungsten oxide homojunctions for Vis-NIR light-enhanced electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 19573-19580.	10.3	31
45	Cathode electrochemically reconstructed V-doped CoO nanosheets for enhanced alkaline hydrogen evolution reaction. Chemical Engineering Journal, 2022, 432, 134331.	12.7	31
46	High performance lithium-ion capacitors based on LiNbO3-arched 3D graphene aerogel anode and BCNNT cathode with enhanced kinetics match. Chemical Engineering Journal, 2020, 396, 125207.	12.7	29
47	Insight into Nickelâ€Cobalt Oxysulfide Nanowires as Advanced Anode for Sodiumâ€lon Capacitors. Advanced Energy Materials, 2021, 11, 2100408.	19.5	25
48	Boron carbonitride with tunable B/N Lewis acid/base sites for enhanced electrocatalytic overall water splitting. Nanoscale, 2021, 13, 2849-2854.	5.6	24
49	Hollow Triple-Layer Puff-like HCs@Si@C Composites with High Structural Stability for High-Performance Lithium-Ion Battery. ACS Applied Energy Materials, 2019, 2, 896-904.	5.1	23
50	Wasteâ€yeast biomass as nitrogen/phosphorus sources and carbon template: Environmentâ€friendly synthesis of N,Pâ€Mo2C nanoparticles on porous carbon matrix for efficient hydrogen evolution. Chinese Chemical Letters, 2022, 33, 3231-3235.	9.0	22
51	Magnetron sputtering tuned "π back-donation―sites over metal oxides for enhanced electrocatalytic nitrogen reduction. Journal of Materials Chemistry A, 2022, 10, 2800-2806.	10.3	22
52	Growth of high quality GaN on a novel designed bonding-thinned template by HVPE. CrystEngComm, 2012, 14, 4777.	2.6	21
53	Lithium-ion capacitor with improved energy density <i>via</i> perfect matching silicon@3D graphene aerogel anode and BCNNTs cathode. Journal of Materials Chemistry A, 2021, 9, 1134-1142.	10.3	21
54	In Situ Growing BCN Nanotubes on Carbon Fibers for Novel Highâ€Temperature Supercapacitor with Excellent Cycling Performance. Small, 2021, 17, e2102899.	10.0	21

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55	Boron Carbonitride Lithium-Ion Capacitors with an Electrostatically Expanded Operating Voltage Window. ACS Applied Materials & Interfaces, 2020, 12, 47425-47434.	8.0	20
56	High-aspect-ratio single-crystalline AlN nanowires: Free-catalytic PVT growth and field-emission studies. Journal of Alloys and Compounds, 2019, 794, 171-177.	5.5	18
57	EBSD crystallographic orientation research on strain distribution in hydride vapor phase epitaxy GaN grown on patterned substrate. CrystEngComm, 2013, 15, 7965.	2.6	17
58	Characterization of dislocations in MOCVD-grown GaN using a high temperature annealing method. CrystEngComm, 2014, 16, 2317.	2.6	17
59	Interface engineering in the BNNS@Ti ₃ C ₂ intercalation structure for enhanced electrocatalytic hydrogen evolution. New Journal of Chemistry, 2019, 43, 8613-8619.	2.8	17
60	Stabilizing Sn anodes nanostructure: Structure optimization and interfacial engineering to boost lithium storage. Electrochimica Acta, 2022, 405, 139789.	5.2	17
61	Phosphorus doping induced the co-construction of sulfur vacancies and heterojunctions in tin disulfide as a durable anode for lithium/sodium-ion batteries. Inorganic Chemistry Frontiers, 2022, 9, 902-913.	6.0	17
62	Phase engineering of CdS optimized by BP with p-n junction: Establishing spatial-gradient charges transmission mode toward efficient photocatalytic water reduction. Applied Catalysis B: Environmental, 2022, 315, 121577.	20.2	17
63	Effect of Temperature Gradient on AlN Crystal Growth by Physical Vapor Transport Method. Crystal Growth and Design, 2019, 19, 6736-6742.	3.0	16
64	Epitaxial growth of a self-separated GaN crystal by using a novel high temperature annealing porous template. CrystEngComm, 2014, 16, 9063-9068.	2.6	15
65	Sn _{<i>x</i>} P _{<i>y</i>} Nanoplate/Reduced Graphene Oxide Composites as Anode Materials for Lithium-/Sodium-Ion Batteries. ACS Applied Nano Materials, 2021, 4, 12335-12345.	5.0	15
66	A universal and controllable strategy of constructing transition-metal nitride heterostructures for highly enhanced bifunctional electrocatalysis. New Journal of Chemistry, 2019, 43, 14701-14707.	2.8	14
67	Enhanced performance of supercapacitors by constructing a "mini parallel-plate capacitor―in an electrode with high dielectric constant materials. Journal of Materials Chemistry A, 2020, 8, 16661-16668.	10.3	14
68	Influence of V/III ratio on stress control in GaN grown on different templates by hydride vapour phase epitaxy. RSC Advances, 2014, 4, 21504.	3.6	12
69	Valence modulated nickel oxynitride network as integrated bifunctional electrodes for enhanced energy storage. Journal of Energy Chemistry, 2021, 56, 56-63.	12.9	12
70	NiMnO _{<i>x</i>} /TiN/CC electrode with a branch–leaf structure: a novel approach to improve the performance of supercapacitors with high mass loading of amorphous metal oxides. Journal of Materials Chemistry A, 2021, 9, 21948-21957.	10.3	12
71	Design of Boron Carbonitrides-Polyaniline (BCN-PANI) assembled supercapacitor with high voltage window. Journal of Colloid and Interface Science, 2022, 626, 544-553.	9.4	12
72	Large Area Stress Distribution in Crystalline Materials Calculated from Lattice Deformation Identified by Electron Backscatter Diffraction. Scientific Reports, 2014, 4, 5934.	3.3	11

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73	Band Structure–Controlled Zn _{1â~'<i>x</i>} Cd _{<i>x</i>} S Solid Solution for Photocatalytic Hydrogen Production Improvement via Appropriately Enhancing Oxidation Capacity. Solar Rrl, 2021, 5, 2000685.	5.8	11
74	Selfâ€Supported Fluorineâ€Doped Boron Carbonitride Porous Aerogels for Highâ€Performance Supercapacitors. Energy Technology, 2021, 9, 2100824.	3.8	11
75	A novel porous substrate for the growth of high quality GaN crystals by HVPE. RSC Advances, 2014, 4, 35106-35111.	3.6	10
76	High quality self-separated GaN crystal grown on a novel nanoporous template by HVPE. Scientific Reports, 2018, 8, 3166.	3.3	10
77	Intrinsic Properties of Macroscopically Tuned Gallium Nitride Singleâ€Crystalline Facets for Electrocatalytic Hydrogen Evolution. Chemistry - A European Journal, 2019, 25, 10420-10426.	3.3	8
78	Growth and Stress Analysis of Spontaneous Nucleation <i>c</i> â€Plane Bulk AlN Crystals by a PVT Method. Crystal Research and Technology, 2020, 55, 2000118.	1.3	8
79	Growth of Freestanding Gallium Nitride (GaN) Through Polyporous Interlayer Formed Directly During Successive Hydride Vapor Phase Epitaxy (HVPE) Process. Crystals, 2020, 10, 141.	2.2	8
80	Growth of high-quality GaN crystals on a BCN nanosheet-coated substrate by hydride vapor phase epitaxy. CrystEngComm, 2019, 21, 1302-1308.	2.6	7
81	Improve the Photocatalytic Hydrogen Production Using ZnS@ZnO Twinâ€Junction Structure with Isoelectronic Traps. Advanced Materials Interfaces, 2022, 9, .	3.7	7
82	A photo-responsive electrocatalyst: CdSe quantum dot sensitized WS ₂ nanosheets for hydrogen evolution in neutral solution. New Journal of Chemistry, 2018, 42, 18021-18027.	2.8	6
83	Na0.76V6O15@Boron Carbonitride Nanotube Composites as Cathodes for High-Performance Lithium-Ion Capacitors. Crystals, 2022, 12, 597.	2.2	6
84	Crystallographic orientation and strain distribution in AlN seeds grown on 6H–SiC substrates by the PVT method. CrystEngComm, 2021, 23, 4946-4953.	2.6	5
85	Band structure-controlled P-C3N4 for photocatalytic water splitting via appropriately decreasing oxidation capacity. Journal of Alloys and Compounds, 2021, 895, 162513.	5.5	5
86	Influence of GaCl carrier gas flow rate on properties of GaN films grown by hydride vapor-phase epitaxy. Journal of Alloys and Compounds, 2011, 509, 6212-6216.	5.5	4
87	Highâ€Quality GaN Crystal Grown on Laser Decomposed GaN–Sapphire Substrate and Its Application in Photodetector. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000380.	1.8	2