

Xiaopeng Hao

List of Publications by Year in descending order

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101496

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3907
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.8	22
2	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.	7.8	41
3	Potential of MXene-Based Heterostructures for Energy Conversion and Storage. ACS Energy Letters, 2022, 7, 78-96.	8.8	69
4	Stabilizing Sn anodes nanostructure: Structure optimization and interfacial engineering to boost lithium storage. Electrochimica Acta, 2022, 405, 139789.	2.6	17
5	Cathode electrochemically reconstructed V-doped CoO nanosheets for enhanced alkaline hydrogen evolution reaction. Chemical Engineering Journal, 2022, 432, 134331.	6.6	31
6	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.	3.0	17
7	Magnetron sputtering tuned â€ back-donationâ€ sites over metal oxides for enhanced electrocatalytic nitrogen reduction. Journal of Materials Chemistry A, 2022, 10, 2800-2806.	5.2	22
8	Self-supporting NiSe2@BCNNTs electrode for High-Performance sodium ion batteries. Chemical Engineering Journal, 2022, 437, 135421.	6.6	48
9	Na0.76V6O15@Boron Carbonitride Nanotube Composites as Cathodes for High-Performance Lithium-Ion Capacitors. Crystals, 2022, 12, 597.	1.0	6
10	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.	10.8	17
11	Improve the Photocatalytic Hydrogen Production Using ZnS@ZnO Twinâ€ Junction Structure with Isoelectronic Traps. Advanced Materials Interfaces, 2022, 9, .	1.9	7
12	Design of Boron Carbonitrides-Polyaniline (BCN-PANI) assembled supercapacitor with high voltage window. Journal of Colloid and Interface Science, 2022, 626, 544-553.	5.0	12
13	Hollow submicrospheres of trimetallic selenides for high-capacity lithium and sodium ion batteries. Chemical Engineering Journal, 2021, 405, 126724.	6.6	38
14	Metal-free boron carbonitride with tunable boron Lewis acid sites for enhanced nitrogen electroreduction to ammonia. Applied Catalysis B: Environmental, 2021, 283, 119622.	10.8	108
15	Band Structureâ€ Controlled Zn_{1â€}Cd_xS Solid Solution for Photocatalytic Hydrogen Production Improvement via Appropriately Enhancing Oxidation Capacity. Solar Rrl, 2021, 5, 2000685.	3.1	11
16	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.	5.2	21
17	Valence modulated nickel oxynitride network as integrated bifunctional electrodes for enhanced energy storage. Journal of Energy Chemistry, 2021, 56, 56-63.	7.1	12
18	Boron carbonitride with tunable B/N Lewis acid/base sites for enhanced electrocatalytic overall water splitting. Nanoscale, 2021, 13, 2849-2854.	2.8	24

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19	Water Invoking Interface Corrosion: An Energy Density Booster for Ni//Zn Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2003268.	10.2	46
20	Insight into Nickelâ€Cobalt Oxysulfide Nanowires as Advanced Anode for Sodiumâ€Ion Capacitors. <i>Advanced Energy Materials</i> , 2021, 11, 2100408.	10.2	25
21	Type II cuprous oxide/graphitic carbon nitride p-n heterojunctions for enhanced photocatalytic nitrogen fixation. <i>Journal of Catalysis</i> , 2021, 395, 273-281.	3.1	36
22	MXene decorated by phosphorus-doped TiO ₂ for photo-enhanced electrocatalytic hydrogen evolution reaction. <i>Renewable Energy</i> , 2021, 170, 858-865.	4.3	37
23	Rational design of Schottky heterojunction with modulating surface electron density for high-performance overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120660.	10.8	58
24	NiMnO _x /TiN/CC electrode with a branchâ€leaf structure: a novel approach to improve the performance of supercapacitors with high mass loading of amorphous metal oxides. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21948-21957.	5.2	12
25	Crystallographic orientation and strain distribution in AlN seeds grown on 6Hâ€SiC substrates by the PVT method. <i>CrystEngComm</i> , 2021, 23, 4946-4953.	1.3	5
26	In Situ Growing BCN Nanotubes on Carbon Fibers for Novel Highâ€Temperature Supercapacitor with Excellent Cycling Performance. <i>Small</i> , 2021, 17, e2102899.	5.2	21
27	Band structure-controlled P-C ₃ N ₄ for photocatalytic water splitting via appropriately decreasing oxidation capacity. <i>Journal of Alloys and Compounds</i> , 2021, 895, 162513.	2.8	5
28	Selfâ€Supported Fluorineâ€Doped Boron Carbonitride Porous Aerogels for Highâ€Performance Supercapacitors. <i>Energy Technology</i> , 2021, 9, 2100824.	1.8	11
29	Sn _P Nanoplate/Reduced Graphene Oxide Composites as Anode Materials for Lithium-/Sodium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2021, 4, 12335-12345.	2.4	15
30	Construction of CdS@Ti ₃ C ₂ @CoO hierarchical tandem p-n heterojunction for boosting photocatalytic hydrogen production in pure water. <i>Chemical Engineering Journal</i> , 2020, 383, 123130.	6.6	67
31	A vanadiumâ€nickel oxynitride layer for enhanced electrocatalytic nitrogen fixation in neutral media. <i>Journal of Materials Chemistry A</i> , 2020, 8, 91-96.	5.2	42
32	Shuttle confinement of lithium polysulfides in borocarbonitride nanotubes with enhanced performance for lithiumâ€sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 296-304.	5.2	40
33	Band-matching transformation between CdS and BCNNTs with tunable p-n homojunction for enhanced photocatalytic pure water splitting. <i>Nano Energy</i> , 2020, 69, 104408.	8.2	52
34	Boron Carbonitride Lithium-Ion Capacitors with an Electrostatically Expanded Operating Voltage Window. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47425-47434.	4.0	20
35	Growth and Stress Analysis of Spontaneous Nucleation <i>c</i> -Plane Bulk AlN Crystals by a PVT Method. <i>Crystal Research and Technology</i> , 2020, 55, 2000118.	0.6	8
36	Highâ€Quality GaN Crystal Grown on Laser Decomposed GaNâ€Sapphire Substrate and Its Application in Photodetector. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000380.	0.8	2

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37	Oxygen Vacancy Modulation of Bimetallic Oxynitride Anodes toward Advanced Li-Ion Capacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2000350.	7.8	48
38	Growth of Freestanding Gallium Nitride (GaN) Through Polyporous Interlayer Formed Directly During Successive Hydride Vapor Phase Epitaxy (HVPE) Process. <i>Crystals</i> , 2020, 10, 141.	1.0	8
39	Ultrasonic Ball Milling: A Novel Strategy to Prepare Large-Size Ultrathin 2D Materials. <i>Small</i> , 2020, 16, e1906734.	5.2	45
40	High performance lithium-ion capacitors based on LiNbO ₃ -arched 3D graphene aerogel anode and BCNNT cathode with enhanced kinetics match. <i>Chemical Engineering Journal</i> , 2020, 396, 125207.	6.6	29
41	Enhanced performance of supercapacitors by constructing a mini parallel-plate capacitor in an electrode with high dielectric constant materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16661-16668.	5.2	14
42	Rational modulation of p-n homojunction in P-doped g-C ₃ N ₄ decorated with Ti ₃ C ₂ for photocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118077.	10.8	94
43	W ₁₈ O ₄₉ tungsten oxide homojunctions for Vis-NIR light-enhanced electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19573-19580.	5.2	31
44	A universal and controllable strategy of constructing transition-metal nitride heterostructures for highly enhanced bifunctional electrocatalysis. <i>New Journal of Chemistry</i> , 2019, 43, 14701-14707.	1.4	14
45	Effect of Temperature Gradient on AlN Crystal Growth by Physical Vapor Transport Method. <i>Crystal Growth and Design</i> , 2019, 19, 6736-6742.	1.4	16
46	Growth of high-quality GaN crystals on a BCN nanosheet-coated substrate by hydride vapor phase epitaxy. <i>CrystEngComm</i> , 2019, 21, 1302-1308.	1.3	7
47	Intrinsic Properties of Macroscopically Tuned Gallium Nitride Single-Crystalline Facets for Electrocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2019, 25, 10420-10426.	1.7	8
48	A CoP/CdS/WS ₂ tandem heterostructure: a novel photocatalyst for hydrogen evolution without using sacrificial agents. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14638-14645.	5.2	49
49	Interface engineering in the BNNS@Ti ₃ C ₂ intercalation structure for enhanced electrocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2019, 43, 8613-8619.	1.4	17
50	High-aspect-ratio single-crystalline AlN nanowires: Free-catalytic PVT growth and field-emission studies. <i>Journal of Alloys and Compounds</i> , 2019, 794, 171-177.	2.8	18
51	From bulk to porous GaN crystal: precise structural control and its application in ultraviolet photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14116-14122.	2.7	33
52	Hollow Triple-Layer Puff-like HCs@Si@C Composites with High Structural Stability for High-Performance Lithium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2019, 2, 896-904.	2.5	23
53	Transition-Metal Oxynitride: A Facile Strategy for Improving Electrochemical Capacitor Storage. <i>Advanced Materials</i> , 2019, 31, e1806088.	11.1	91
54	Regulating Phase Conversion from Ni ₃ Se ₂ into NiSe in a Bifunctional Electrocatalyst for Overall Water-Splitting Enhancement. <i>ChemSusChem</i> , 2019, 12, 2008-2014.	3.6	46

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55	Effective orientation control of photogenerated carrier separation via rational design of a Ti ₃ C ₂ (TiO ₂)@CdS/MoS ₂ photocatalytic system. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 202-208.	10.8	99
56	High quality self-separated GaN crystal grown on a novel nanoporous template by HVPE. <i>Scientific Reports</i> , 2018, 8, 3166.	1.6	10
57	Stable and Reversible Lithium Storage with High Pseudocapacitance in GaN Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2574-2580.	4.0	52
58	Phase junction CdS: High efficient and stable photocatalyst for hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 179-186.	10.8	111
59	A photo-responsive electrocatalyst: CdSe quantum dot sensitized WS ₂ nanosheets for hydrogen evolution in neutral solution. <i>New Journal of Chemistry</i> , 2018, 42, 18021-18027.	1.4	6
60	Band gap-Tunable Porous Borocarbonitride Nanosheets for High Energy-Density Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19588-19597.	4.0	86
61	Bimetallic NiMoN Nanowires with a Preferential Reactive Facet: An Ultraefficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemSusChem</i> , 2018, 11, 3198-3207.	3.6	91
62	Effect of defects on adsorption characteristics of AlN monolayer towards SO ₂ and NO ₂ : Ab initio exposure. <i>Applied Surface Science</i> , 2018, 462, 615-622.	3.1	42
63	Graphene-Oxide-Assisted Synthesis of Ga ₂ O ₃ Nanosheets/Reduced Graphene Oxide Nanocomposites Anodes for Advanced Alkali-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 4708-4715.	2.5	61
64	Elastic sandwich-type GaN/MnO ₂ /MnON composites for flexible supercapacitors with high energy density. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13215-13224.	5.2	45
65	Three-dimensional MoS ₂ @CNT/RGO Network Composites for High-performance Flexible Supercapacitors. <i>Chemistry - A European Journal</i> , 2017, 23, 3438-3446.	1.7	166
66	Graphene-Assisted Exfoliation of Molybdenum Disulfide to Fabricate 2D Heterostructure for Enhancing Lithium Storage. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601187.	1.9	38
67	Phase-transformation engineering in MoS ₂ on carbon cloth as flexible binder-free anode for enhancing lithium storage. <i>Journal of Alloys and Compounds</i> , 2017, 716, 112-118.	2.8	66
68	One-step fabrication of porous GaN crystal membrane and its application in energy storage. <i>Scientific Reports</i> , 2017, 7, 44063.	1.6	38
69	Self-Supporting GaN Nanowires/Graphite Paper: Novel High-performance Flexible Supercapacitor Electrodes. <i>Small</i> , 2017, 13, 1603330.	5.2	70
70	Graphene-Oxide-Assisted Synthesis of GaN Nanosheets as a New Anode Material for Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26631-26636.	4.0	81
71	Photo-enhanced electrocatalysis of sea-urchin shaped Ni ₃ (VO ₄) ₂ for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18038-18043.	5.2	37
72	Quinone-Mediated Trifluoromethylation of Arenes and Heteroarenes with Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 334-341.	3.2	33

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73	Utilizing photocorrosion-recrystallization to prepare a highly stable and efficient CdS/WS ₂ nanocomposite photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 466-472.	10.8	129
74	Gallium Nitride Crystals: Novel Supercapacitor Electrode Materials. <i>Advanced Materials</i> , 2016, 28, 3768-3776.	11.1	136
75	OD/2D nanocomposite visible light photocatalyst for highly stable and efficient hydrogen generation via recrystallization of CdS on MoS ₂ nanosheets. <i>Nano Energy</i> , 2016, 27, 466-474.	8.2	124
76	Potassium Hydroxide/Dimethyl Sulfoxide Superbase-Promoted Transition Metal-Free Synthesis of 2-Substituted Benzothiophenes under Visible Light. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 1202-1207.	2.1	36
77	Large-quantity and continuous preparation of two-dimensional nanosheets. <i>Nanoscale</i> , 2016, 8, 5407-5411.	2.8	52
78	Direct growth of freestanding GaN on C-face SiC by HVPE. <i>Scientific Reports</i> , 2015, 5, 10748.	1.6	44
79	Improving the Quality of GaN Crystals by Using Graphene or Hexagonal Boron Nitride Nanosheets Substrate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4504-4510.	4.0	67
80	A novel porous substrate for the growth of high quality GaN crystals by HVPE. <i>RSC Advances</i> , 2014, 4, 35106-35111.	1.7	10
81	Characterization of dislocations in MOCVD-grown GaN using a high temperature annealing method. <i>CrystEngComm</i> , 2014, 16, 2317.	1.3	17
82	Epitaxial growth of a self-separated GaN crystal by using a novel high temperature annealing porous template. <i>CrystEngComm</i> , 2014, 16, 9063-9068.	1.3	15
83	Influence of V/III ratio on stress control in GaN grown on different templates by hydride vapour phase epitaxy. <i>RSC Advances</i> , 2014, 4, 21504.	1.7	12
84	Large Area Stress Distribution in Crystalline Materials Calculated from Lattice Deformation Identified by Electron Backscatter Diffraction. <i>Scientific Reports</i> , 2014, 4, 5934.	1.6	11
85	EBSD crystallographic orientation research on strain distribution in hydride vapor phase epitaxy GaN grown on patterned substrate. <i>CrystEngComm</i> , 2013, 15, 7965.	1.3	17
86	Growth of high quality GaN on a novel designed bonding-thinned template by HVPE. <i>CrystEngComm</i> , 2012, 14, 4777.	1.3	21
87	Influence of GaCl carrier gas flow rate on properties of GaN films grown by hydride vapor-phase epitaxy. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6212-6216.	2.8	4