

Jin-Song Hu

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223
papers

25,468
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236
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29,002
ext. citations

11.6
avg. IF

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L-index

#	Paper	IF	Citations
223	Nanostructured Materials for Electrochemical Energy Conversion and Storage Devices. <i>Advanced Materials</i> , 2008 , 20, 2878-2887	24	1893
222	Self-Assembled 3D Flowerlike Iron Oxide Nanostructures and Their Application in Water Treatment. <i>Advanced Materials</i> , 2006 , 18, 2426-2431	24	1425
221	Understanding the High Activity of Fe-N-C Electrocatalysts in Oxygen Reduction: Fe/Fe ₃ C Nanoparticles Boost the Activity of Fe-N(x). <i>Journal of the American Chemical Society</i> , 2016 , 138, 3570-8	16.4	1219
220	Carbon Coated Fe ₃ O ₄ Nanospindles as a Superior Anode Material for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2008 , 18, 3941-3946	15.6	1119
219	Tin-Nanoparticles Encapsulated in Elastic Hollow Carbon Spheres for High-Performance Anode Material in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2008 , 20, 1160-1165	24	938
218	Self-assembled vanadium pentoxide (V ₂ O ₅) hollow microspheres from nanorods and their application in lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4391-5	16.4	782
217	Pt hollow nanospheres: facile synthesis and enhanced electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1540-3	16.4	631
216	Electronic and Morphological Dual Modulation of Cobalt Carbonate Hydroxides by Mn Doping toward Highly Efficient and Stable Bifunctional Electrocatalysts for Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8320-8328	16.4	546
215	Space-confinement-induced synthesis of pyridinic- and pyrrolic-nitrogen-doped graphene for the catalysis of oxygen reduction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11755-9	16.4	538
214	Mass production and high photocatalytic activity of ZnS nanoporous nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1269-73	16.4	511
213	Zn-Cu-In-Se Quantum Dot Solar Cells with a Certified Power Conversion Efficiency of 11.6%. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4201-9	16.4	476
212	Cobalt carbide nanoprisms for direct production of lower olefins from syngas. <i>Nature</i> , 2016 , 538, 84-87	50.4	460
211	Pomegranate-like N,P-Doped Mo ₂ C@C Nanospheres as Highly Active Electrocatalysts for Alkaline Hydrogen Evolution. <i>ACS Nano</i> , 2016 , 10, 8851-60	16.7	451
210	Controllable pt nanoparticle deposition on carbon nanotubes as an anode catalyst for direct methanol fuel cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22212-6	3.4	434
209	3D Flowerlike Ceria Micro/Nanocomposite Structure and Its Application for Water Treatment and CO Removal. <i>Chemistry of Materials</i> , 2007 , 19, 1648-1655	9.6	410
208	Single and tandem axial p-i-n nanowire photovoltaic devices. <i>Nano Letters</i> , 2008 , 8, 3456-60	11.5	373
207	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. <i>Nature Communications</i> , 2019 , 10, 1278	17.4	368

206	MoS ₂ /CdS Nanosheets-on-Nanorod Heterostructure for Highly Efficient Photocatalytic H ₂ Generation under Visible Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15258-66	9.5	358
205	Hierarchically structured cobalt oxide (Co ₃ O ₄): the morphology control and its potential in sensors. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15858-63	3.4	320
204	Self-Templated Fabrication of MoNi /MoO Nanorod Arrays with Dual Active Components for Highly Efficient Hydrogen Evolution. <i>Advanced Materials</i> , 2017 , 29, 1703311	24	300
203	Three-dimensional self-organization of supramolecular self-assembled porphyrin hollow hexagonal nanoprisms. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17090-5	16.4	287
202	Se-Doping Activates FeOOH for Cost-Effective and Efficient Electrochemical Water Oxidation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7005-7013	16.4	279
201	Introducing Dual Functional CNT Networks into CuO Nanomicrospheres toward Superior Electrode Materials for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2008 , 20, 3617-3622	9.6	255
200	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni B for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6572-6577	16.4	206
199	Thermodynamically Stable Orthorhombic ECsPbI Thin Films for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11716-11725	16.4	206
198	Anisotropic photoresponse properties of single micrometer-sized GeSe nanosheet. <i>Advanced Materials</i> , 2012 , 24, 4528-33	24	196
197	Electrochemical sensor for detecting ultratrace nitroaromatic compounds using mesoporous SiO ₂ -modified electrode. <i>Analytical Chemistry</i> , 2006 , 78, 1967-71	7.8	184
196	Embedding Pt Nanocrystals in N-Doped Porous Carbon/Carbon Nanotubes toward Highly Stable Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2015 , 5, 2903-2909	13.1	182
195	Space-Confinement-Induced Synthesis of Pyridinic- and Pyrrolic-Nitrogen-Doped Graphene for the Catalysis of Oxygen Reduction. <i>Angewandte Chemie</i> , 2013 , 125, 11971-11975	3.6	174
194	Controlling the Cavity Structures of Two-Photon-Pumped Perovskite Microlasers. <i>Advanced Materials</i> , 2016 , 28, 4040-6	24	172
193	Insight into the Effect of Oxygen Vacancy Concentration on the Catalytic Performance of MnO ₂ . <i>ACS Catalysis</i> , 2015 , 5, 4825-4832	13.1	171
192	GeSe Thin-Film Solar Cells Fabricated by Self-Regulated Rapid Thermal Sublimation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 958-965	16.4	167
191	Regulating strain in perovskite thin films through charge-transport layers. <i>Nature Communications</i> , 2020 , 11, 1514	17.4	165
190	Polar Solvent Induced Lattice Distortion of Cubic CsPbI Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11705-11715	16.4	154
189	Mass Production and High Photocatalytic Activity of ZnS Nanoporous Nanoparticles. <i>Angewandte Chemie</i> , 2005 , 117, 1295-1299	3.6	154

188	In-Situ Loading of Noble Metal Nanoparticles on Hydroxyl-Group-Rich Titania Precursor and Their Catalytic Applications. <i>Chemistry of Materials</i> , 2007 , 19, 4557-4562	9.6	151
187	Synergistic Modulation of Non-Precious-Metal Electrocatalysts for Advanced Water Splitting. <i>Accounts of Chemical Research</i> , 2020 , 53, 1111-1123	24.3	145
186	General Space-Confined On-Substrate Fabrication of Thickness-Adjustable Hybrid Perovskite Single-Crystalline Thin Films. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16196-16199	16.4	145
185	Microscopic Investigation of Grain Boundaries in Organolead Halide Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28518-23	9.5	145
184	Facile synthesis of nanoporous anatase spheres and their environmental applications. <i>Chemical Communications</i> , 2008 , 1184-6	5.8	139
183	Regulating Fe-spin state by atomically dispersed Mn-N in Fe-N-C catalysts with high oxygen reduction activity. <i>Nature Communications</i> , 2021 , 12, 1734	17.4	138
182	Identification of FeN ₄ as an Efficient Active Site for Electrochemical N ₂ Reduction. <i>ACS Catalysis</i> , 2019 , 9, 7311-7317	13.1	134
181	Bilayer PbS Quantum Dots for High-Performance Photodetectors. <i>Advanced Materials</i> , 2017 , 29, 17020554	5.4	133
180	Manipulation of facet orientation in hybrid perovskite polycrystalline films by cation cascade. <i>Nature Communications</i> , 2018 , 9, 2793	17.4	127
179	Air-Stable In-Plane Anisotropic GeSe for Highly Polarization-Sensitive Photodetection in Short Wave Region. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4150-4156	16.4	125
178	In Situ One-Step Method for Preparing Carbon Nanotubes and Pt Composite Catalysts and Their Performance for Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11174-11179	3.8	125
177	Probing electron transfer mechanisms in <i>Shewanella oneidensis</i> MR-1 using a nanoelectrode platform and single-cell imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16806-10	11.5	124
176	Pt Hollow Nanospheres: Facile Synthesis and Enhanced Electrocatalysts. <i>Angewandte Chemie</i> , 2004 , 116, 1566-1569	3.6	121
175	Additive engineering for high-performance room-temperature-processed perovskite absorbers with micron-size grains and microsecond-range carrier lifetimes. <i>Energy and Environmental Science</i> , 2017 , 10, 2365-2371	35.4	120
174	Controllable AuPt bimetallic hollow nanostructures. <i>Chemical Communications</i> , 2004 , 1496-7	5.8	117
173	Rational design and electron transfer kinetics of MoS ₂ /CdS nanodots-on-nanorods for efficient visible-light-driven hydrogen generation. <i>Nano Energy</i> , 2016 , 23, 319-329	17.1	113
172	Nanoparticle facilitated extracellular electron transfer in microbial fuel cells. <i>Nano Letters</i> , 2014 , 14, 6737-42	11.5	113
171	ITO@Cu ₂ S tunnel junction nanowire arrays as efficient counter electrode for quantum-dot-sensitized solar cells. <i>Nano Letters</i> , 2014 , 14, 365-72	11.5	111

170	Hierarchical Nanowire Arrays as Three-Dimensional Fractal Nanobiointerfaces for High Efficient Capture of Cancer Cells. <i>Nano Letters</i> , 2016 , 16, 766-72	11.5	109
169	Wurtzite Cu ₂ ZnSnSe ₄ nanocrystals for high-performance organic/inorganic hybrid photodetectors. <i>NPG Asia Materials</i> , 2012 , 4, e2-e2	10.3	109
168	Post-annealing of MAPbI ₃ perovskite films with methylamine for efficient perovskite solar cells. <i>Materials Horizons</i> , 2016 , 3, 548-555	14.4	109
167	Autogenous Growth of Hierarchical NiFe(OH) _x /FeS Nanosheet-On-Microsheet Arrays for Synergistically Enhanced High-Output Water Oxidation. <i>Advanced Functional Materials</i> , 2019 , 29, 1902189	15.6	105
166	Scalable Solid-State Synthesis of Highly Dispersed Uncapped Metal (Rh, Ru, Ir) Nanoparticles for Efficient Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2018 , 8, 1801698	21.8	105
165	TiO ₂ -Based Composite Nanotube Arrays Prepared via Layer-by-Layer Assembly. <i>Advanced Functional Materials</i> , 2005 , 15, 196-202	15.6	99
164	Fully Air-Bladed High-Efficiency Perovskite Photovoltaics. <i>Joule</i> , 2019 , 3, 402-416	27.8	95
163	A Two-Dimensional Hole-Transporting Material for High-Performance Perovskite Solar Cells with 20 % Average Efficiency. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10959-10965	16.4	95
162	Self-Limited on-Site Conversion of MoO ₃ Nanodots into Vertically Aligned Ultrasmall Monolayer MoS ₂ for Efficient Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2018 , 8, 1800734	21.8	92
161	Tin/Platinum Bimetallic Nanotube Array and its Electrocatalytic Activity for Methanol Oxidation. <i>Advanced Materials</i> , 2005 , 17, 746-750	24	90
160	Controllable Preparation of Submicrometer Single-Crystal C ₆₀ Rods and Tubes Through Concentration Depletion at the Surfaces of Seeds. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10498-10502	22.8	89
159	Bandgap engineering of monodispersed Cu(2-x)S(y)Se(1-y) nanocrystals through chalcogen ratio and crystal structure. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18558-61	16.4	86
158	Congeneric Incorporation of CsPbBr ₃ Nanocrystals in a Hybrid Perovskite Heterojunction for Photovoltaic Efficiency Enhancement. <i>ACS Energy Letters</i> , 2018 , 3, 30-38	20.1	86
157	Confining Iron Carbide Nanocrystals inside CN _x @CNT toward an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11508-15	9.5	85
156	When MoS ₂ meets FeOOH: A One-stone-two-birds Heterostructure as a bifunctional electrocatalyst for efficient alkaline water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 1004-1012	21.8	84
155	Nitrogen, phosphorus and sulfur co-doped ultrathin carbon nanosheets as a metal-free catalyst for selective oxidation of aromatic alkanes and the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18470-18477	13	80
154	Lamellar Metal Organic Framework-Derived Fe-N-C Non-Noble Electrocatalysts with Bimodal Porosity for Efficient Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5272-5278	9.5	78
153	Metastable Rock Salt Oxide-Mediated Synthesis of High-Density Dual-Protected M@NC for Long-Life Rechargeable Zinc-Air Batteries with Record Power Density. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7116-7127	16.4	78

152	Ni-Pt multilayered nanowire arrays with enhanced coercivity and high remanence ratio. <i>Inorganic Chemistry</i> , 2005 , 44, 3013-5	5.1	78
151	Polarization-Sensitive Ultraviolet Photodetection of Anisotropic 2D GeS ₂ . <i>Advanced Functional Materials</i> , 2019 , 29, 1900411	15.6	78
150	Alloying Strategy in Cu-In-Ga-Se Quantum Dots for High Efficiency Quantum Dot Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5328-5336	9.5	76
149	Investigation of Oxygen Passivation for High-Performance All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18075-18082	16.4	76
148	Controllable crystalline structure of fullerene nanorods and transport properties of an individual nanorod. <i>Journal of Materials Chemistry</i> , 2008 , 18, 328-332		76
147	Boosting the Open Circuit Voltage and Fill Factor of QDSSCs Using Hierarchically Assembled ITO@Cu ₂ S Nanowire Array Counter Electrodes. <i>Nano Letters</i> , 2015 , 15, 3088-95	11.5	75
146	Tuning the Fermi-level of TiO ₂ mesoporous layer by lanthanum doping towards efficient perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 16881-16885	7.7	75
145	Sodium chloride-assisted green synthesis of a 3D Fe-Ni hybrid as a highly active electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7781-7787	13	75
144	Physical vapor deposition of amorphous MoS ₂ nanosheet arrays on carbon cloth for highly reproducible large-area electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19277-19281	13	73
143	Kinetically Controlled Coprecipitation for General Fast Synthesis of Sandwiched Metal Hydroxide Nanosheets/Graphene Composites toward Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2018 , 28, 1704594	15.6	73
142	Co/CoO/CoFe ₂ O ₄ /G nanocomposites derived from layered double hydroxides towards mass production of efficient Pt-free electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2014 , 6, 203-6	7.7	72
141	Steering elementary steps towards efficient alkaline hydrogen evolution via size-dependent Ni/NiO nanoscale heterosurfaces. <i>National Science Review</i> , 2020 , 7, 27-36	10.8	71
140	Facile and Scalable Synthesis of Robust Ni(OH) ₂ Nanoplate Arrays on NiAl Foil as Hierarchical Active Scaffold for Highly Efficient Overall Water Splitting. <i>Advanced Science</i> , 2017 , 4, 1700084	13.6	68
139	In situ nitrogen-doped nanoporous carbon nanocables as an efficient metal-free catalyst for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10154	13	67
138	Room-Temperature Sustainable Synthesis of Selected Platinum Group Metal (PGM = Ir, Rh, and Ru) Nanocatalysts Well-Dispersed on Porous Carbon for Efficient Hydrogen Evolution and Oxidation. <i>Small</i> , 2019 , 15, e1903057	11	66
137	Chemical state of surrounding iron species affects the activity of Fe-N _x for electrocatalytic oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 240-246	21.8	65
136	Molecular Evidence for Metallic Cobalt Boosting CO Electroreduction on Pyridinic Nitrogen. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4914-4919	16.4	65
135	Particle-in-box nanostructured materials created via spatially confined pyrolysis as high performance bifunctional catalysts for electrochemical overall water splitting. <i>Nano Energy</i> , 2018 , 48, 489-499	17.1	65

134	Urchin-like Au@CdS/WO ₃ micro/nano heterostructure as a visible-light driven photocatalyst for efficient hydrogen generation. <i>Chemical Communications</i> , 2015 , 51, 13842-5	5.8	63
133	A Rutile TiO Electron Transport Layer for the Enhancement of Charge Collection for Efficient Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9414-9418	16.4	61
132	Encased Copper Boosts the Electrocatalytic Activity of N-Doped Carbon Nanotubes for Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36857-36864	9.5	60
131	Functionalized carbon nanotubes as sensitive materials for electrochemical detection of ultra-trace 2,4,6-trinitrotoluene. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3567-72	3.6	59
130	Interface Assembly Synthesis of Inorganic Composite Hollow Spheres. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9734-9738	3.4	58
129	Self-terminated activation for high-yield production of N,P-codoped nanoporous carbon as an efficient metal-free electrocatalyst for Zn-air battery. <i>Carbon</i> , 2018 , 128, 97-105	10.4	58
128	Three-dimensional nanostructured electrodes for efficient quantum-dot-sensitized solar cells. <i>Nano Energy</i> , 2017 , 32, 130-156	17.1	56
127	Sustainable synthesis of supported metal nanocatalysts for electrochemical hydrogen evolution. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 1791-1811	11.3	56
126	Highly Dispersed Metal Nanoparticles in Porous Anodic Alumina Films Prepared by a Breathing Process of Polyacrylamide Hydrogel. <i>Chemistry of Materials</i> , 2003 , 15, 4332-4336	9.6	55
125	Self-Assembled Vanadium Pentoxide (V ₂ O ₅) Hollow Microspheres from Nanorods and Their Application in Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2005 , 117, 4465-4469	3.6	54
124	Microbial-Phosphorus-Enabled Synthesis of Phosphide Nanocomposites for Efficient Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11248-11253	16.4	53
123	Promoting crystalline grain growth and healing pinholes by water vapor modulated post-annealing for enhancing the efficiency of planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13458-13467	13	52
122	Investigation of Physical and Electronic Properties of GeSe for Photovoltaic Applications. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700141	6.4	51
121	Probing single- to multi-cell level charge transport in <i>Geobacter sulfurreducens</i> DL-1. <i>Nature Communications</i> , 2013 , 4, 2751	17.4	50
120	Well-Defined Metal-O in Metal-Catecholates as a Novel Active Site for Oxygen Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28473-28477	9.5	50
119	Co@N-CNTs derived from triple-role CoAl-layered double hydroxide as an efficient catalyst for oxygen reduction reaction. <i>Carbon</i> , 2016 , 107, 162-170	10.4	50
118	Solvent-induced oriented attachment growth of air-stable phase-pure pyrite FeS ₂ nanocrystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2211-4	16.4	49
117	Self-Catalyzed Growth of Co-N-C Nanobrushes for Efficient Rechargeable Zn-Air Batteries. <i>Small</i> , 2020 , 16, e2001171	11	48

116	Molecularly Engineered Strong Metal Oxide Support Interaction Enables Highly Efficient and Stable CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2020 , 10, 13227-13235	13.1	48
115	Negligible-Pb-Waste and Upscalable Perovskite Deposition Technology for High-Operational-Stability Perovskite Solar Modules. <i>Advanced Energy Materials</i> , 2019 , 9, 1803047	21.8	48
114	Tuning the branches and composition of PtCu nanodendrites through underpotential deposition of Cu towards advanced electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9014-9021	13	47
113	Morphology control and shape evolution in 3D hierarchical superstructures. <i>Science China Chemistry</i> , 2012 , 55, 2249-2256	7.9	45
112	High-Efficiency CsPbI ₂ Br Perovskite Solar Cells with Dopant-Free Poly(3-hexylthiophene) Hole Transporting Layers. <i>Advanced Energy Materials</i> , 2020 , 10, 2000501	21.8	44
111	In-Plane Optical Anisotropy of Low-Symmetry 2D GeSe. <i>Advanced Optical Materials</i> , 2019 , 7, 1801311	8.1	44
110	Hanging Pt hollow nanocrystal assemblies on graphene resulting in an enhanced electrocatalyst. <i>Chemical Communications</i> , 2012 , 48, 10331-3	5.8	43
109	Fe/P dual doping boosts the activity and durability of CoS ₂ polycrystalline nanowires for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5195-5200	13	42
108	Pore-structure-directed CO ₂ electroreduction to formate on SnO ₂ /C catalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18428-18433	13	42
107	Integrated prototype nanodevices via SnO ₂ nanoparticles decorated SnSe nanosheets. <i>Scientific Reports</i> , 2013 , 3, 2613	4.9	41
106	Facile solution synthesis of hexagonal Alq ₃ nanorods and their field emission properties. <i>Chemical Communications</i> , 2007 , 3083-5	5.8	41
105	GeSe thin-film solar cells. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 775-787	7.8	41
104	Phase-Controlled Synthesis of 1T-MoSe ₂ /NiSe Heterostructure Nanowire Arrays via Electronic Injection for Synergistically Enhanced Hydrogen Evolution. <i>Small Methods</i> , 2019 , 3, 1800317	12.8	41
103	From biological enzyme to single atomic Fe-N-C electrocatalyst for efficient oxygen reduction. <i>Chemical Communications</i> , 2018 , 54, 1307-1310	5.8	41
102	Self-deposition of Pt nanocrystals on Mn ₃ O ₄ coated carbon nanotubes for enhanced oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7463	13	40
101	Strain in perovskite solar cells: origins, impacts and regulation. <i>National Science Review</i> , 2021 , 8, nwab0470.8	10.8	40
100	ZnOEP based phototransistor: signal amplification and light-controlled switch. <i>Chemical Communications</i> , 2008 , 2653-5	5.8	39
99	NiS nanodotted carnation-like CoS for enhanced electrocatalytic water splitting. <i>Chemical Communications</i> , 2019 , 55, 3781-3784	5.8	38

98	Phosphorus-doping activates carbon nanotubes for efficient electroreduction of nitrogen to ammonia. <i>Nano Research</i> , 2020 , 13, 1376-1382	10	38
97	Eco-friendly visible-wavelength photodetectors based on bandgap engineerable nanomaterials. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17582		38
96	Carrier Dynamics Engineering for High-Performance Electron-Transport-Layer-free Perovskite Photovoltaics. <i>CheM</i> , 2018 , 4, 2405-2417	16.2	37
95	Ion-Transfer-Based Growth: A Mechanism for CuTCNQ Nanowire Formation. <i>Advanced Materials</i> , 2008 , 20, 4879-4882	24	35
94	A sulfur-rich small molecule as a bifunctional interfacial layer for stable perovskite solar cells with efficiencies exceeding 22%. <i>Nano Energy</i> , 2021 , 79, 105462	17.1	33
93	Synergy Effect of Both 2,2,2-Trifluoroethylamine Hydrochloride and SnF ₂ for Highly Stable FASnI ₃ Cl _x Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800290	7.1	32
92	Crystallization Kinetics Modulation of FASnI Films with Pre-nucleation Clusters for Efficient Lead-Free Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3693-3698	16.4	32
91	Size and Electronic Modulation of Iridium Nanoparticles on Nitrogen-Functionalized Carbon toward Advanced Electrocatalysts for Alkaline Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22340-22347	9.5	31
90	Influence of N,N-Dimethylformamide Annealing on the Local Electrical Properties of Organometal Halide Perovskite Solar Cells: an Atomic Force Microscopy Investigation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26002-26007	9.5	29
89	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni ₃ B for Efficient Water Oxidation. <i>Angewandte Chemie</i> , 2017 , 129, 6672-6677	3.6	28
88	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15822-15828	13	28
87	Organic Small Molecule Activates Transition Metal Foam for Efficient Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e1906015	24	27
86	Pd-induced Pt(IV) reduction to form Pd@Pt/CNT core@shell catalyst for a more complete oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14443	13	27
85	Effect of polycyclic aromatic hydrocarbons on detection sensitivity of ultratrace nitroaromatic compounds. <i>Analytical Chemistry</i> , 2007 , 79, 2179-83	7.8	26
84	Advanced transition metal/nitrogen/carbon-based electrocatalysts for fuel cell applications. <i>Science China Chemistry</i> , 2020 , 63, 1517-1542	7.9	26
83	Engineering Mo/Mo ₂ C/MoC hetero-interfaces for enhanced electrocatalytic nitrogen reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8920-8926	13	25
82	Metal Octaethylporphyrin Nanowire Array and Network toward Electric/Photoelectric Devices. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16259-16265	3.8	25
81	3D nanoporous Ni/V ₂ O ₃ hybrid nanoplate assemblies for highly efficient electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21452-21457	13	25

80	In situ transformation of Cu ₂ O@MnO ₂ to Cu@Mn(OH) ₂ nanosheet-on-nanowire arrays for efficient hydrogen evolution. <i>Nano Research</i> , 2018 , 11, 1798-1809	10	24
79	Enhanced stability and activity with Pd-O junction formation and electronic structure modification of palladium nanoparticles supported on exfoliated montmorillonite for the oxygen reduction reaction. <i>Chemical Communications</i> , 2014 , 50, 6660-3	5.8	24
78	Engineering the interfaces of ITO@Cu ₂ S nanowire arrays toward efficient and stable counter electrodes for quantum-dot-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15448-15455	9.5	24
77	A simple method to synthesize layered double hydroxide nanoscrolls. <i>Materials Research Bulletin</i> , 2007 , 42, 571-575	5.1	24
76	High-Mobility Hydrophobic Conjugated Polymer as Effective Interlayer for Air-Stable Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800232	7.1	24
75	Temperature-Dependent Local Electrical Properties of Organic-Inorganic Halide Perovskites: In Situ KPFM and c-AFM Investigation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21627-21633	9.5	23
74	Engineering self-assembled N-doped graphene-carbon nanotube composites towards efficient oxygen reduction electrocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13605-9	3.6	23
73	Weak Interlayer Interaction in 2D Anisotropic GeSe. <i>Advanced Science</i> , 2019 , 6, 1801810	13.6	23
72	Nanoarchitected metal film electrodes with high electroactive surface areas. <i>Thin Solid Films</i> , 2005 , 484, 341-345	2.2	22
71	Bimetal Prussian Blue as a Continuously Variable Platform for Investigating the Composition-Activity Relationship of Phosphides-Based Electrocatalysts for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35904-35910	9.5	22
70	Highly Extended copolymer as additive-free hole-transport material for perovskite solar cells. <i>Nano Research</i> , 2018 , 11, 185-194	10	21
69	Progress in the Mechanisms and Materials for CO ₂ Electroreduction toward C ₂ + Products. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2020 , 36, 1906085-0	3.8	20
68	Recent Advances on Nonprecious-Metal-Based Bifunctional Oxygen Electrocatalysts for Zinc-Air Batteries. <i>Energy & Fuels</i> , 2021 , 35, 6380-6401	4.1	20
67	Low-temperature aqueous solution processed ZnO as an electron transporting layer for efficient perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 802-806	7.8	19
66	Fe-doped CoO polycrystalline nanosheets as a binder-free bifunctional cathode for robust and efficient zinc-air batteries. <i>Chemical Communications</i> , 2020 , 56, 5374-5377	5.8	19
65	Multi-Phase Heterostructure of CoNiP/Co P for Enhanced Hydrogen Evolution Under Alkaline and Seawater Conditions by Promoting H ₂ O Dissociation. <i>Small</i> , 2021 , 17, e2007557	11	19
64	Scalable solid-state synthesis of coralline-like nanostructured Co@CoNC electrocatalyst for Zn-air batteries. <i>Chemical Communications</i> , 2018 , 54, 8190-8193	5.8	19
63	Detection of VOCs and their concentrations by a single SnO ₂ sensor using kinetic information. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 454-460	8.5	18

62	Electrodeposition of monodispersed metal nanoparticles in a nafion film: Towards highly active nanocatalysts. <i>Electrochemistry Communications</i> , 2008 , 10, 814-817	5.1	18
61	Electrical Loss Management by Molecularly Manipulating Dopant-free Poly(3-hexylthiophene) towards 16.93 % CsPbI ₃ Br Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16388-16393	16.4	17
60	Three-Dimensional Optical Anisotropy of Low-Symmetry Layered GeS. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24247-24253	9.5	16
59	An antibonding valence band maximum enables defect-tolerant and stable GeSe photovoltaics. <i>Nature Communications</i> , 2021 , 12, 670	17.4	16
58	A Two-Dimensional Hole-Transporting Material for High-Performance Perovskite Solar Cells with 20 % Average Efficiency. <i>Angewandte Chemie</i> , 2018 , 130, 11125-11131	3.6	15
57	Selective Se doping of NiFe ₂ O ₄ on an active NiOOH scaffold for efficient and robust water oxidation. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1395-1403	11.3	15
56	Molecular Evidence for Metallic Cobalt Boosting CO ₂ Electroreduction on Pyridinic Nitrogen. <i>Angewandte Chemie</i> , 2020 , 132, 4944-4949	3.6	14
55	Bis(ethylenedithio)tetrathiafulvalene Charge-Transfer Salt Nanotube Arrays. <i>Advanced Materials</i> , 2006 , 18, 2753-2757	24	14
54	Rationally Designed Three-Dimensional N-Doped Graphene Architecture Mounted with Ru Nanoclusters as a High-Performance Air Cathode for Lithium-Oxygen Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6109-6117	8.3	13
53	Synergistic Electrocatalysts for Alkaline Hydrogen Oxidation and Evolution Reactions. <i>Advanced Functional Materials</i> , 2107479	15.6	13
52	Highly Boosted Microbial Extracellular Electron Transfer by Semiconductor Nanowire Array with Suitable Energy Level. <i>Advanced Functional Materials</i> , 2018 , 28, 1707408	15.6	12
51	Electrochemical Responsive Superhydrophilic Surfaces of Polythiophene Derivatives towards Cell Capture and Release. <i>ChemPhysChem</i> , 2018 , 19, 2046-2051	3.2	12
50	Enhancing Electron and Hole Extractions for Efficient PbS Quantum Dot Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700176	7.1	12
49	Engineering carbon-shells of M@NC bifunctional oxygen electrocatalyst towards stable aqueous rechargeable Zn-air batteries. <i>Chemical Engineering Journal</i> , 2021 , 418, 129409	14.7	12
48	Engineering inorganic lead halide perovskite deposition toward solar cells with efficiency approaching 20%. <i>Aggregate</i> , 2021 , 2, 66-83	22.9	12
47	Hetero-coupling of a carbonate hydroxide and sulfide for efficient and robust water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21959-21965	13	11
46	Programmed fabrication of bimetallic nanobarcodes for miniature multiplexing bioanalysis. <i>Analytical Chemistry</i> , 2009 , 81, 2815-8	7.8	11
45	Band engineering of Ag-Bi ₁₂ GeO ₂₀ -Bi ₂ WO ₆ composite photocatalyst: Interface regulation and enhanced photocatalytic performance. <i>Ceramics International</i> , 2019 , 45, 5249-5258	5.1	11

44	Boosting Nitrogen Reduction to Ammonia on FeN Sites by Atomic Spin Regulation. <i>Advanced Science</i> , 2021 , 8, e2102915	13.6	11
43	Strain-engineering the in-plane electrical anisotropy of GeSe monolayers. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 914-918	3.6	10
42	Regulating the charge diffusion of two-dimensional cobalt/iron hydroxide/graphene composites for high-rate water oxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11573-11581	13	9
41	Recent Progress in Proton-Exchange Membrane Fuel Cells Based on Metal-Nitrogen-Carbon Catalysts. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2020 , 2010048-0	3.8	9
40	Boosting the efficiency of GeSe solar cells by low-temperature treatment of p-n junction. <i>Science China Materials</i> , 2021 , 64, 2118-2126	7.1	9
39	Interfacial Strain Engineering in Wide-Bandgap GeS Thin Films for Photovoltaics. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	9
38	Confinement Strategies for Precise Synthesis of Efficient Electrocatalysts from the Macroscopic to the Atomic Level. <i>Accounts of Materials Research</i> ,	7.5	9
37	Dual-Sites Tandem Catalysts for C-N Bond Formation via Electrocatalytic Coupling of CO ₂ and Nitrogenous Small Molecules	14.68-14.76	9
36	Facile Synthesis of Mo ₂ C Nanocrystals Embedded in Nanoporous Carbon Network for Efficient Hydrogen Evolution. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 911-917	4.9	8
35	A Rutile TiO ₂ Electron Transport Layer for the Enhancement of Charge Collection for Efficient Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 9514-9518	3.6	8
34	Surface reconstruction on silver nanoparticles decorated trimetallic hydroxide nanosheets to generate highly active oxygen-deficient (oxy)hydroxide layer for high-efficient water oxidation. <i>Chemical Engineering Journal</i> , 2021 , 425, 131662	14.7	8
33	Microscopic investigations on the surface-state dependent moisture stability of a hybrid perovskite. <i>Nanoscale</i> , 2020 , 12, 7759-7765	7.7	7
32	Facile solution synthesis and photoelectric properties of monolithic tin(II) sulfide nanobelt arrays. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2483-8	4.5	7
31	Rational confinement engineering of MOF-derived carbon-based electrocatalysts toward CO ₂ reduction and O ₂ reduction reactions. <i>Information Materials</i> ,	23.1	7
30	In-plane anisotropic 2D Ge-based binary materials for optoelectronic applications. <i>Chemical Communications</i> , 2021 , 57, 565-575	5.8	7
29	Carrier management makes perovskite solar cells approaching Shockley-Queisser limit. <i>Science Bulletin</i> , 2021 , 66, 1372-1374	10.6	6
28	Strain-engineering the electronic properties and anisotropy of GeSe monolayers.. <i>RSC Advances</i> , 2018 , 8, 33445-33450	3.7	6
27	Self-supported metal sulphide nanocrystals-assembled nanosheets on carbon paper as efficient counter electrodes for quantum-dot-sensitized solar cells. <i>Science China Chemistry</i> , 2018 , 61, 1338-1344	7.9	6

26	Boron-Tethering and Regulative Electronic States Around Iridium Species for Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2113191	15.6	5
25	Coordination anchoring synthesis of high-density single-metal-atom sites for electrocatalysis. <i>Coordination Chemistry Reviews</i> , 2022, 466, 214603	23.2	5
24	Optoelectronic investigation of Cu ₂ ZnSn(S,Se) ₄ thin-films & Cu ₂ ZnSn(S,Se) ₄ /CdS interface with scanning probe microscopy. <i>Science China Chemistry</i> , 2016, 59, 231-236	7.9	4
23	Room-Temperature Solution-Processed PbS Quantum Dot Solar Cells. <i>Chinese Journal of Chemistry</i> , 2020, 38, 356-360	4.9	4
22	Regulating the crystalline phase of intermediate films enables FA1-xMAxPbI3 perovskite solar cells with efficiency over 22%. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24064-24070	13	4
21	Electrical Loss Management by Molecularly Manipulating Dopant-free Poly(3-hexylthiophene) towards 16.93 % CsPbI2Br Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 16524	3.6	4
20	Well-defined heteronuclear bimetallic atomic clusters: Emerging electrocatalysts. <i>Fundamental Research</i> , 2021, 1, 461-465		4
19	Strain-engineering the anisotropic electrical properties of low-symmetry bilayer GeSe. <i>Journal of Applied Physics</i> , 2019, 125, 082524	2.5	4
18	Crystallization Kinetics Modulation of FASnI3 Films with Pre-nucleation Clusters for Efficient Lead-Free Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 3737-3742	3.6	4
17	Tuning the Optical Absorption Property of GeSe Thin Films by Annealing Treatment. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800370	2.5	4
16	Carbon-free Cu ₂ ZnSn(S,Se) ₄ film prepared via a non-hydrazine route. <i>Science China Chemistry</i> , 2014, 57, 1552-1558	7.9	3
15	Facile synthesis of Pt multipods nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2031-63		3
14	A simple route to platinum and Pt-based composite nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1929-32	1.3	3
13	Hole transporting materials in inorganic CsPbI3Br solar cells: Fundamentals, criteria and opportunities. <i>Materials Today</i> , 2021,	21.8	3
12	Molecular Engineering for Bottom-Up Construction of High-Performance Non-Precious-Metal Electrocatalysts with Well-Defined Active Sites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22397-22420	3.8	2
11	Investigation of weak interlayer coupling in 2D layered GeS ₂ from theory to experiment. <i>Nano Research</i> , 1	10	2
10	MWCNT-mesoporous silica nanocomposites inserted in a polyhedral metal-organic framework as an advanced hybrid material for energy storage device. <i>New Journal of Chemistry</i> ,	3.6	2
9	Hydrogen Evolution: Self-Limited on-Site Conversion of MoO ₃ Nanodots into Vertically Aligned Ultrasmall Monolayer MoS ₂ for Efficient Hydrogen Evolution (Adv. Energy Mater. 21/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870098	21.8	1

- 8 Investigation of the sublimation mechanism of GeSe and GeS. *Chemical Communications*, **2021**, 57, 11461-11464
- 7 Molecular Linking Stabilizes Bi Nanoparticles for Efficient Electrochemical Carbon Dioxide Reduction. *Journal of Physical Chemistry C*, **2021**, 125, 12699-12706 3.8 1
- 6 High-Mobility Hydrophobic Conjugated Polymer as Effective Interlayer for Air-Stable Efficient Perovskite Solar Cells (Solar RRL 10019). *Solar Rrl*, **2019**, 3, 1970015 7.1 1
- 5 Rational design of integrated electrodes for advancing high-rate alkaline electrolytic hydrogen production. *Journal of Materials Chemistry A*, 13 1
- 4 Regulating surface InD in In@InO core-shell nanoparticles for boosting electrocatalytic CO2 reduction to formate. *Chinese Journal of Catalysis*, **2022**, 43, 1674-1679 11.3 1
- 3 Nickel/cobalt/copper sulfide dodecahedral hollow multi-shelled structures, characterization, and application as a suitable nanomaterial for high-performance supercapacitors. *Electrochimica Acta*, **2022**, 420, 140437 6.7 0
- 2 Single-Crystalline Nanosheets of Hybrid Perovskite Fabricated by a Vapor-Solution Sequential Deposition Route. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 3669-3672 1.3
- 1 Electronic characteristics of Au-mercaptohexadecanoic acid-Au junction in a capillary. *Journal of Nanoscience and Nanotechnology*, **2004**, 4, 1081-4 1.3