

Jin-Song Hu

List of Publications by Year in descending order

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papers

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236
docs citations

236
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured Materials for Electrochemical Energy Conversion and Storage Devices. <i>Advanced Materials</i> , 2008, 20, 2878-2887.	11.1	2,054
2	Understanding the High Activity of Fe ^N -C Electrocatalysts in Oxygen Reduction: Fe/Fe ₃ C Nanoparticles Boost the Activity of Fe _N . <i>Journal of the American Chemical Society</i> , 2016, 138, 3570-3578.	6.6	1,549
3	Self-Assembled 3D Flowerlike Iron Oxide Nanostructures and Their Application in Water Treatment. <i>Advanced Materials</i> , 2006, 18, 2426-2431.	11.1	1,526
4	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.	7.8	1,177
5	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.	11.1	1,002
6	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, 4391-4395.	7.2	840
7	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.	6.6	745
8	Pt Hollow Nanospheres: Facile Synthesis and Enhanced Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1540-1543.	7.2	662
9	Cobalt carbide nanoprisms for direct production of lower olefins from syngas. <i>Nature</i> , 2016, 538, 84-87.	13.7	647
10	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, 11755-11759.	7.2	620
11	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. <i>Nature Communications</i> , 2019, 10, 1278.	5.8	591
12	Pomegranate-like N,P-Doped Mo ₂ C@C Nanospheres as Highly Active Electrocatalysts for Alkaline Hydrogen Evolution. <i>ACS Nano</i> , 2016, 10, 8851-8860.	7.3	575
13	Synthesis of Hierarchically Structured Metal Oxides and their Application in Heavy Metal Ion Removal. <i>Advanced Materials</i> , 2008, 20, 2977-2982.	11.1	568
14	Mass Production and High Photocatalytic Activity of ZnS Nanoporous Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1269-1273.	7.2	558
15	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, 4201-4209.	6.6	537
16	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.	5.8	488
17	Se-Doping Activates FeOOH for Cost-Effective and Efficient Electrochemical Water Oxidation. <i>Journal of the American Chemical Society</i> , 2019, 141, 7005-7013.	6.6	460
18	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, 22212-22216.	1.2	454

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19	Self-templated Fabrication of MoNi ₄ /MoO ₃ Nanorod Arrays with Dual Active Components for Highly Efficient Hydrogen Evolution. <i>Advanced Materials</i> , 2017, 29, 1703311.	11.1	437
20	3D Flowerlike Ceria Micro/Nanocomposite Structure and Its Application for Water Treatment and CO Removal. <i>Chemistry of Materials</i> , 2007, 19, 1648-1655.	3.2	433
21	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, 15258-15266.	4.0	426
22	Single and Tandem Axial p-n Nanowire Photovoltaic Devices. <i>Nano Letters</i> , 2008, 8, 3456-3460.	4.5	401
23	Regulating strain in perovskite thin films through charge-transport layers. <i>Nature Communications</i> , 2020, 11, 1514.	5.8	346
24	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, 15858-15863.	1.2	339
25	Synergistic Modulation of Non-Precious-Metal Electrocatalysts for Advanced Water Splitting. <i>Accounts of Chemical Research</i> , 2020, 53, 1111-1123.	7.6	315
26	Thermodynamically Stable Orthorhombic I^{β} -CsPbI ₃ Thin Films for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018, 140, 11716-11725.	6.6	308
27	Three-Dimensional Self-Organization of Supramolecular Self-Assembled Porphyrin Hollow Hexagonal Nanoprisms. <i>Journal of the American Chemical Society</i> , 2005, 127, 17090-17095.	6.6	302
28	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni ₃ B for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6572-6577.	7.2	271
29	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.	3.2	270
30	Insight into the Effect of Oxygen Vacancy Concentration on the Catalytic Performance of MnO ₂ . <i>ACS Catalysis</i> , 2015, 5, 4825-4832.	5.5	244
31	GeSe Thin-Film Solar Cells Fabricated by Self-Regulated Rapid Thermal Sublimation. <i>Journal of the American Chemical Society</i> , 2017, 139, 958-965.	6.6	238
32	Anisotropic Photoresponse Properties of Single Micrometer-Sized GeSe Nanosheet. <i>Advanced Materials</i> , 2012, 24, 4528-4533.	11.1	229
33	Polar Solvent Induced Lattice Distortion of Cubic CsPbI ₃ Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. <i>Journal of the American Chemical Society</i> , 2018, 140, 11705-11715.	6.6	223
34	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.	5.5	221
35	Identification of FeN ₄ as an Efficient Active Site for Electrochemical N ₂ Reduction. <i>ACS Catalysis</i> , 2019, 9, 7311-7317.	5.5	220
36	Controlling the Cavity Structures of Two-Photon-Pumped Perovskite Microlasers. <i>Advanced Materials</i> , 2016, 28, 4040-4046.	11.1	207

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37	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.	6.6	205
38	Electrochemical Sensor for Detecting Ultratrace Nitroaromatic Compounds Using Mesoporous SiO ₂ -Modified Electrode. <i>Analytical Chemistry</i> , 2006, 78, 1967-1971.	3.2	204
39	Steering elementary steps towards efficient alkaline hydrogen evolution via size-dependent Ni/NiO nanoscale heterosurfaces. <i>National Science Review</i> , 2020, 7, 27-36.	4.6	192
40	Bilayer PbS Quantum Dots for High-Performance Photodetectors. <i>Advanced Materials</i> , 2017, 29, 1702055.	11.1	189
41	Manipulation of facet orientation in hybrid perovskite polycrystalline films by cation cascade. <i>Nature Communications</i> , 2018, 9, 2793.	5.8	189
42	Air-Stable In-Plane Anisotropic GeSe ₂ for Highly Polarization-Sensitive Photodetection in Short Wave Region. <i>Journal of the American Chemical Society</i> , 2018, 140, 4150-4156.	6.6	180
43	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, 1902180.	7.8	179
44	Microscopic Investigation of Grain Boundaries in Organolead Halide Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28518-28523.	4.0	173
45	Nanoparticle Facilitated Extracellular Electron Transfer in Microbial Fuel Cells. <i>Nano Letters</i> , 2014, 14, 6737-6742.	4.5	157
46	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.	15.6	157
47	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.	3.2	156
48	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.	10.2	149
49	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.	6.6	147
50	Facile synthesis of nanoporous anatase spheres and their environmental applications. <i>Chemical Communications</i> , 2008, , 1184.	2.2	146
51	When MoS ₂ meets FeOOH: A "one-stone-two-birds"™ hetrostructure as a bifunctional electrocatalyst for efficient alkaline water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 1004-1012.	10.8	144
52	Post-annealing of MAPbI ₃ perovskite films with methylamine for efficient perovskite solar cells. <i>Materials Horizons</i> , 2016, 3, 548-555.	6.4	141
53	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, 28, 319-329.	8.2	140
54	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, 16806-16810.	3.3	138

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55	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.	1.5	127
56	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.	7.2	127
57	Strain in perovskite solar cells: origins, impacts and regulation. <i>National Science Review</i> , 2021, 8, nwab047.	4.6	127
58	Molecular Evidence for Metallic Cobalt Boosting CO ₂ Electroreduction on Pyridinic Nitrogen. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4914-4919.	7.2	126
59	A Rutile TiO ₂ Electron Transport Layer for the Enhancement of Charge Collection for Efficient Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9414-9418.	7.2	124
60	Hierarchical Nanowire Arrays as Three-Dimensional Fractal Nanobiointerfaces for High Efficient Capture of Cancer Cells. <i>Nano Letters</i> , 2016, 16, 766-772.	4.5	122
61	Controllable AuPt bimetallic hollow nanostructures. <i>Chemical Communications</i> , 2004, , 1496.	2.2	121
62	Investigation of Oxygen Passivation for High-Performance All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 18075-18082.	6.6	120
63	Polarization-Sensitive Ultraviolet Photodetection of Anisotropic 2D GeS ₂ . <i>Advanced Functional Materials</i> , 2019, 29, 1900411.	7.8	120
64	Fully Air-Bladed High-Efficiency Perovskite Photovoltaics. <i>Joule</i> , 2019, 3, 402-416.	11.7	119
65	ITO@Cu ₂ S Tunnel Junction Nanowire Arrays as Efficient Counter Electrode for Quantum-Dot-Sensitized Solar Cells. <i>Nano Letters</i> , 2014, 14, 365-372.	4.5	118
66	Wurtzite Cu ₂ ZnSnSe ₄ nanocrystals for high-performance organic-inorganic hybrid photodetectors. <i>NPG Asia Materials</i> , 2012, 4, e2-e2.	3.8	116
67	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.	10.2	112
68	Congeneric Incorporation of CsPbBr ₃ Nanocrystals in a Hybrid Perovskite Heterojunction for Photovoltaic Efficiency Enhancement. <i>ACS Energy Letters</i> , 2018, 3, 30-38.	8.8	106
69	TiO ₂ -Based Composite Nanotube Arrays Prepared via Layer-by-Layer Assembly. <i>Advanced Functional Materials</i> , 2005, 15, 196-202.	7.8	103
70	Tuning the Fermi-level of TiO ₂ mesoporous layer by lanthanum doping towards efficient perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 16881-16885.	2.8	103
71	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.	10.8	101
72	Controllable Preparation of Submicrometer Single-Crystal C ₆₀ Rods and Tubes Trough Concentration Depletion at the Surfaces of Seeds. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10498-10502.	1.5	98

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73	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.	5.2	97
74	Bandgap Engineering of Monodispersed Cu ₂ S/Se Nanocrystals through Chalcogen Ratio and Crystal Structure. <i>Journal of the American Chemical Society</i> , 2011, 133, 18558-18561.	6.6	96
75	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.	4.0	95
76	Confining Iron Carbide Nanocrystals inside CN@CNT toward an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11508-11515.	4.0	94
77	Molecularly Engineered Strong Metal Oxide-Support Interaction Enables Highly Efficient and Stable CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2020, 10, 13227-13235.	5.5	94
78	Tin/Platinum Bimetallic Nanotube Array and its Electrocatalytic Activity for Methanol Oxidation. <i>Advanced Materials</i> , 2005, 17, 746-750.	11.1	93
79	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.	5.2	93
80	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.	5.2	93
81	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.	7.8	91
82	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.	8.2	90
83	Sodium chloride-assisted green synthesis of a 3D Fe-N-C hybrid as a highly active electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7781-7787.	5.2	88
84	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.	4.0	87
85	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, 3088-3095.	4.5	86
86	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.	5.6	85
87	Self-Catalyzed Growth of Co-N-C Nanobrushes for Efficient Rechargeable Zn-Air Batteries. <i>Small</i> , 2020, 16, e2001171.	5.2	84
88	Multi-Phase Heterostructure of CoNiP/Co _x P for Enhanced Hydrogen Evolution Under Alkaline and Seawater Conditions by Promoting H ₂ O Dissociation. <i>Small</i> , 2021, 17, e2007557.	5.2	83
89	Controllable crystalline structure of fullerenenanorods and transport properties of an individual nanorod. <i>Journal of Materials Chemistry</i> , 2008, 18, 328-332.	6.7	82
90	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, 13842-13845.	2.2	82

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91	Ni ²⁺ /Pt Multilayered Nanowire Arrays with Enhanced Coercivity and High Remanence Ratio. <i>Inorganic Chemistry</i> , 2005, 44, 3013-3015.	1.9	81
92	Investigation of Physical and Electronic Properties of GeSe for Photovoltaic Applications. <i>Advanced Electronic Materials</i> , 2017, 3, 1700141.	2.6	81
93	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, 203-206.	2.8	80
94	Sustainable synthesis of supported metal nanocatalysts for electrochemical hydrogen evolution. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1791-1811.	6.9	80
95	Crystallization Kinetics Modulation of FASn ₃ Films with Pre-nucleation Clusters for Efficient Lead-free Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3693-3698.	7.2	80
96	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.	5.2	78
97	Encased Copper Boosts the Electrocatalytic Activity of N-Doped Carbon Nanotubes for Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36857-36864.	4.0	75
98	GeSe thin-film solar cells. <i>Materials Chemistry Frontiers</i> , 2020, 4, 775-787.	3.2	75
99	Probing single- to multi-cell level charge transport in <i>Geobacter sulfurreducens</i> DL-1. <i>Nature Communications</i> , 2013, 4, 2751.	5.8	73
100	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.	5.2	73
101	Three-dimensional nanostructured electrodes for efficient quantum-dot-sensitized solar cells. <i>Nano Energy</i> , 2017, 32, 130-156.	8.2	73
102	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.	8.2	72
103	Microbial-Phosphorus-Enabled Synthesis of Phosphide Nanocomposites for Efficient Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 11248-11253.	6.6	70
104	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.	5.4	69
105	High-efficiency CsPb ₂ Br Perovskite Solar Cells with Dopant-free Poly(3-hexylthiophene) Hole Transporting Layers. <i>Advanced Energy Materials</i> , 2020, 10, 2000501.	10.2	69
106	Negligible Pb Waste and Upscalable Perovskite Deposition Technology for High Operational Stability Perovskite Solar Modules. <i>Advanced Energy Materials</i> , 2019, 9, 1803047.	10.2	68
107	In-plane Optical Anisotropy of Low-symmetry 2D GeSe. <i>Advanced Optical Materials</i> , 2019, 7, 1801311.	3.6	68
108	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.	4.6	67

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109	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.	1.3	66
110	Synergistic Electrocatalysts for Alkaline Hydrogen Oxidation and Evolution Reactions. <i>Advanced Functional Materials</i> , 2022, 32, 2107479.	7.8	66
111	Boosting Nitrogen Reduction to Ammonia on FeN ₄ Sites by Atomic Spin Regulation. <i>Advanced Science</i> , 2021, 8, e2102915.	5.6	64
112	Well-Defined Metal–O ₆ in Metal–Catecholates as a Novel Active Site for Oxygen Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28473-28477.	4.0	63
113	Interface Assembly Synthesis of Inorganic Composite Hollow Spheres. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9734-9738.	1.2	62
114	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.	3.2	61
115	Phosphorus-doping activates carbon nanotubes for efficient electroreduction of nitrogen to ammonia. <i>Nano Research</i> , 2020, 13, 1376-1382.	5.8	61
116	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.	5.4	60
117	Pore-structure-directed CO ₂ electroreduction to formate on SnO ₂ /C catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18428-18433.	5.2	59
118	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.	5.2	58
119	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.	5.2	58
120	An antibonding valence band maximum enables defect-tolerant and stable GeSe photovoltaics. <i>Nature Communications</i> , 2021, 12, 670.	5.8	58
121	Rational confinement engineering of MOF-derived carbon-based electrocatalysts toward CO ₂ reduction and O ₂ reduction reactions. <i>Informa Mater</i> , 2022, 4, .	8.5	58
122	Carrier Dynamics Engineering for High-Performance Electron-Transport-Layer-free Perovskite Photovoltaics. <i>CheM</i> , 2018, 4, 2405-2417.	5.8	57
123	Electrical Loss Management by Molecularly Manipulating Dopant-free Poly(3-hexylthiophene) towards 16.93% CsPb ₂ Br Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16388-16393.	7.2	57
124	Solvent-Induced Oriented Attachment Growth of Air-Stable Phase-Pure Pyrite FeS ₂ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 2211-2214.	6.6	56
125	Ni ₂ nanodotted carnation-like CoS ₂ for enhanced electrocatalytic water splitting. <i>Chemical Communications</i> , 2019, 55, 3781-3784.	2.2	56
126	Advanced transition metal/nitrogen/carbon-based electrocatalysts for fuel cell applications. <i>Science China Chemistry</i> , 2020, 63, 1517-1542.	4.2	56

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127	Organic Small Molecule Activates Transition Metal Foam for Efficient Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e1906015.	11.1	56
128	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.	5.2	55
129	Engineering Mo/Mo ₂ C/MoC hetero-interfaces for enhanced electrocatalytic nitrogen reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8920-8926.	5.2	54
130	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.	6.9	51
131	From biological enzyme to single atomic Fe-N-C electrocatalyst for efficient oxygen reduction. <i>Chemical Communications</i> , 2018, 54, 1307-1310.	2.2	50
132	Dual-Sites Tandem Catalysts for C-N Bond Formation via Electrocatalytic Coupling of CO ₂ and Nitrogenous Small Molecules. , 2021, 3, 1468-1476.		50
133	Facile solution synthesis of hexagonal Alq ₃ nanorods and their field emission properties. <i>Chemical Communications</i> , 2007, , 3083.	2.2	49
134	Morphology control and shape evolution in 3D hierarchical superstructures. <i>Science China Chemistry</i> , 2012, 55, 2249-2256.	4.2	49
135	Recent Advances on Nonprecious-Metal-Based Bifunctional Oxygen Electrocatalysts for Zinc-Air Batteries. <i>Energy & Fuels</i> , 2021, 35, 6380-6401.	2.5	48
136	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.	5.2	47
137	Confinement Strategies for Precise Synthesis of Efficient Electrocatalysts from the Macroscopic to the Atomic Level. <i>Accounts of Materials Research</i> , 2021, 2, 907-919.	5.9	46
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