

Junfa Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

406
papers

34,141
citations

2962

96
h-index

5102

172
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all docs

415
docs citations

415
times ranked

34083
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Cobalt Atoms with Precise Nâ€Coordination as Superior Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10800-10805.	7.2	1,836
2	Selective visible-light-driven photocatalytic CO ₂ reduction to CH ₄ mediated by atomically thin CuIn ₅ S ₈ layers. <i>Nature Energy</i> , 2019, 4, 690-699.	19.8	948
3	Oxide Defect Engineering Enables to Couple Solar Energy into Oxygen Activation. <i>Journal of the American Chemical Society</i> , 2016, 138, 8928-8935.	6.6	840
4	Tailoring the dâ€Band Centers Enables Co ₄ N Nanosheets To Be Highly Active for Hydrogen Evolution Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5076-5080.	7.2	728
5	Exclusive Niâ€N ₄ Sites Realize Near-Unity CO Selectivity for Electrochemical CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 14889-14892.	6.6	725
6	Refining Defect States in W ₁₈ O ₄₉ by Mo Doping: A Strategy for Tuning N ₂ Activation towards Solar-Driven Nitrogen Fixation. <i>Journal of the American Chemical Society</i> , 2018, 140, 9434-9443.	6.6	722
7	Heterogeneous Single-Atom Photocatalysts: Fundamentals and Applications. <i>Chemical Reviews</i> , 2020, 120, 12175-12216.	23.0	620
8	Synergetic interaction between neighbouring platinum monomers in CO ₂ hydrogenation. <i>Nature Nanotechnology</i> , 2018, 13, 411-417.	15.6	584
9	Fabrication of composite photocatalyst g-C ₃ N ₄ â€ZnO and enhancement of photocatalytic activity under visible light. <i>Dalton Transactions</i> , 2012, 41, 6756.	1.6	553
10	Enhancing CO ₂ Electroreduction with the Metalâ€Oxide Interface. <i>Journal of the American Chemical Society</i> , 2017, 139, 5652-5655.	6.6	468
11	Thiol-functionalization of metal-organic framework by a facile coordination-based postsynthetic strategy and enhanced removal of Hg ²⁺ from water. <i>Journal of Hazardous Materials</i> , 2011, 196, 36-43.	6.5	456
12	Isolation of Cu Atoms in Pd Lattice: Forming Highly Selective Sites for Photocatalytic Conversion of CO ₂ to CH ₄ . <i>Journal of the American Chemical Society</i> , 2017, 139, 4486-4492.	6.6	455
13	Highly Active and Stable Metal Single-Atom Catalysts Achieved by Strong Electronic Metalâ€Support Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 14515-14519.	6.6	455
14	Enabling unassisted solar water splitting by iron oxide and silicon. <i>Nature Communications</i> , 2015, 6, 7447.	5.8	429
15	Scaledâ€Up Synthesis of Amorphous NiFeMo Oxides and Their Rapid Surface Reconstruction for Superior Oxygen Evolution Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15772-15777.	7.2	426
16	New photocatalysts based on MIL-53 metalâ€organic frameworks for the decolorization of methylene blue dye. <i>Journal of Hazardous Materials</i> , 2011, 190, 945-951.	6.5	416
17	Low-Cost Synthesis of Flowerlike Î±-Fe ₂ O ₃ Nanostructures for Heavy Metal Ion Removal: Adsorption Property and Mechanism. <i>Langmuir</i> , 2012, 28, 4573-4579.	1.6	409
18	Protecting Copper Oxidation State via Intermediate Confinement for Selective CO ₂ Electroreduction to C ₂₊ Fuels. <i>Journal of the American Chemical Society</i> , 2020, 142, 6400-6408.	6.6	396

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19	Heterogeneous Single-Atom Catalyst for Visible-Light-Driven High-Turnover CO ₂ Reduction: The Role of Electron Transfer. <i>Advanced Materials</i> , 2018, 30, e1704624.	11.1	383
20	Single Cobalt Atoms with Precise N-Coordination as Superior Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie</i> , 2016, 128, 10958-10963.	1.6	373
21	Partially Oxidized SnS ₂ Atomic Layers Achieving Efficient Visible-Light-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 18044-18051.	6.6	368
22	Doping-induced structural phase transition in cobalt diselenide enables enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2018, 9, 2533.	5.8	356
23	Precisely Tuning the Number of Fe Atoms in Clusters on N-Doped Carbon toward Acidic Oxygen Reduction Reaction. <i>CheM</i> , 2019, 5, 2865-2878.	5.8	346
24	Facile fabrication of magnetic metal-organic framework nanocomposites for potential targeted drug delivery. <i>Journal of Materials Chemistry</i> , 2011, 21, 3843.	6.7	343
25	Sulfur-anchoring synthesis of platinum intermetallic nanoparticle catalysts for fuel cells. <i>Science</i> , 2021, 374, 459-464.	6.0	343
26	Tuning orbital orientation endows molybdenum disulfide with exceptional alkaline hydrogen evolution capability. <i>Nature Communications</i> , 2019, 10, 1217.	5.8	322
27	Design and Epitaxial Growth of MoSe ₂ -NiSe Vertical Heteronanostructures with Electronic Modulation for Enhanced Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016, 28, 1838-1846.	3.2	310
28	Electronic structure and chemical bonding of a graphene oxide-sulfur nanocomposite for use in superior performance lithium-sulfur cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13670.	1.3	305
29	A Janus Nickel Cobalt Phosphide Catalyst for High-Efficiency Neutral-pH Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15445-15449.	7.2	299
30	Fe ₃ O ₄ @MOF core-shell magnetic microspheres with a designable metal-organic framework shell. <i>Journal of Materials Chemistry</i> , 2012, 22, 9497.	6.7	285
31	Atomic-level insights in optimizing reaction paths for hydroformylation reaction over Rh/CoO single-atom catalyst. <i>Nature Communications</i> , 2016, 7, 14036.	5.8	281
32	Surface-Catalyzed C-C Covalent Coupling Strategies toward the Synthesis of Low-Dimensional Carbon-Based Nanostructures. <i>Accounts of Chemical Research</i> , 2015, 48, 2484-2494.	7.6	273
33	Implementing Metal-Ligand Charge Transfer in Organic Semiconductor for Improved Visible-Near-Infrared Photocatalysis. <i>Advanced Materials</i> , 2016, 28, 6959-6965.	11.1	268
34	Enabling Visible-Light-Driven Selective CO ₂ Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16447-16451.	7.2	262
35	Infrared Light-Driven CO ₂ Overall Splitting at Room Temperature. <i>Joule</i> , 2018, 2, 1004-1016.	11.7	258
36	Metal-organic frameworks MIL-88A hexagonal microrods as a new photocatalyst for efficient decolorization of methylene blue dye. <i>Dalton Transactions</i> , 2014, 43, 3792-3798.	1.6	231

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37	Boosting hydrogen evolution on MoS ₂ via co-confining selenium in surface and cobalt in inner layer. Nature Communications, 2020, 11, 3315.	5.8	229
38	Acacia Senegal-Inspired Bifunctional Binder for Longevity of Lithium-Sulfur Batteries. Advanced Energy Materials, 2015, 5, 1500878.	10.2	223
39	Oxygen vacancy associated single-electron transfer for photofixation of CO ₂ to long-chain chemicals. Nature Communications, 2019, 10, 788.	5.8	222
40	Interrelationships among Grain Size, Surface Composition, Air Stability, and Interfacial Resistance of Al-Substituted Li ₇ La ₃ Zr ₂ O ₁₂ Solid Electrolytes. ACS Applied Materials & Interfaces, 2015, 7, 17649-17655.	4.0	220
41	Enhancing both selectivity and coking-resistance of a single-atom Pd ₁ /C ₃ N ₄ catalyst for acetylene hydrogenation. Nano Research, 2017, 10, 1302-1312.	5.8	220
42	Metal-Organic Framework Coating Enhances the Performance of Cu ₂ O in Photoelectrochemical CO ₂ Reduction. Journal of the American Chemical Society, 2019, 141, 10924-10929.	6.6	219
43	Facile fabrication of magnetically separable graphitic carbon nitride photocatalysts with enhanced photocatalytic activity under visible light. Journal of Materials Chemistry A, 2013, 1, 3008.	5.2	216
44	Carbon Dioxide Electroreduction into Syngas Boosted by a Partially Delocalized Charge in Molybdenum Sulfide Selenide Alloy Monolayers. Angewandte Chemie - International Edition, 2017, 56, 9121-9125.	7.2	205
45	Unconventional CN vacancies suppress iron-leaching in Prussian blue analogue pre-catalyst for boosted oxygen evolution catalysis. Nature Communications, 2019, 10, 2799.	5.8	202
46	Photocatalytic Conversion of Waste Plastics into C ₂ Fuels under Simulated Natural Environment Conditions. Angewandte Chemie - International Edition, 2020, 59, 15497-15501.	7.2	198
47	Bimetallic nickel-molybdenum/tungsten nanoalloys for high-efficiency hydrogen oxidation catalysis in alkaline electrolytes. Nature Communications, 2020, 11, 4789.	5.8	192
48	Disentangling the size-dependent geometric and electronic effects of palladium nanocatalysts beyond selectivity. Science Advances, 2019, 5, eaat6413.	4.7	187
49	Nickel Doping in Atomically Thin Tin Disulfide Nanosheets Enables Highly Efficient CO ₂ Reduction. Angewandte Chemie - International Edition, 2018, 57, 10954-10958.	7.2	186
50	Size-dependent dynamic structures of supported gold nanoparticles in CO oxidation reaction condition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7700-7705.	3.3	183
51	Integrated Quasipplane Heteronanostructures of MoSe ₂ /Bi ₂ Se ₃ Hexagonal Nanosheets: Synergetic Electrocatalytic Water Splitting and Enhanced Supercapacitor Performance. Advanced Functional Materials, 2017, 27, 1703864.	7.8	170
52	Hierarchically mesostructured MIL-101 metal-organic frameworks: supramolecular template-directed synthesis and accelerated adsorption kinetics for dye removal. CrystEngComm, 2012, 14, 1613-1617.	1.3	169
53	Boosting Water Dissociation Kinetics on Pt-Ni Nanowires by N-Induced Orbital Tuning. Advanced Materials, 2019, 31, e1807780.	11.1	167
54	Surface-Assisted Organic Synthesis of Hyperbenzene Nanotroughs. Angewandte Chemie - International Edition, 2013, 52, 4668-4672.	7.2	166

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55	Nobleâ€Metalâ€Free Janusâ€like Structures by Cation Exchange for Zâ€Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4206-4210.	7.2	166
56	Synergizing metalâ€support interactions and spatial confinement boosts dynamics of atomic nickel for hydrogenations. <i>Nature Nanotechnology</i> , 2021, 16, 1141-1149.	15.6	165
57	Controlled synthesis of novel Au@MIL-100(Fe) coreâ€shell nanoparticles with enhanced catalytic performance. <i>Chemical Communications</i> , 2013, 49, 1267-1269.	2.2	163
58	Synergy between Palladium Single Atoms and Nanoparticles via Hydrogen Spillover for Enhancing CO ₂ Photoreduction to CH ₄ . <i>Advanced Materials</i> , 2022, 34, e2200057.	11.1	162
59	Structure Sensitivity of Auâ€TiO ₂ Strong Metalâ€Support Interactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12074-12081.	7.2	161
60	Direct XPS Evidence for Charge Transfer from a Reduced Rutile TiO ₂ (110) Surface to Au Clusters. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12434-12439.	1.5	156
61	Carbon Dioxide Electroreduction into Syngas Boosted by a Partially Delocalized Charge in Molybdenum Sulfide Selenide Alloy Monolayers. <i>Angewandte Chemie</i> , 2017, 129, 9249-9253.	1.6	154
62	Ultrastable and Efficient Visibleâ€lightâ€driven CO ₂ Reduction Triggered by Regenerative Oxygenâ€Vacancies in Bi ₂ O ₂ CO ₃ Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13840-13846.	7.2	152
63	A Confinement Strategy for Stabilizing ZIFâ€Derived Bifunctional Catalysts as a Benchmark Cathode of Flexible Allâ€Solidâ€State Zincâ€Air Batteries. <i>Advanced Materials</i> , 2018, 30, e1805268.	11.1	147
64	Ultrathin Conductor Enabling Efficient IR Light CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 423-430.	6.6	146
65	Microwave-assisted synthesis of highly fluorescent nanoparticles of a melamine-based porous covalent organic framework for trace-level detection of nitroaromatic explosives. <i>Journal of Hazardous Materials</i> , 2012, 221-222, 147-154.	6.5	145
66	Highâ€Curvature Transitionâ€Metal Chalcogenide Nanostructures with a Pronounced Proximity Effect Enable Fast and Selective CO ₂ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8706-8712.	7.2	145
67	Microwave-enhanced synthesis of magnetic porous covalent triazine-based framework composites for fast separation of organic dye from aqueous solution. <i>Journal of Hazardous Materials</i> , 2011, 186, 984-990.	6.5	137
68	Direct Observation of Two Electron Holes in a Hematite Photoanode during Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16870-16875.	1.5	137
69	Oxygen vacancy modulated Ti ₂ Nb ₁₀ O _{29-x} embedded onto porous bacterial cellulose carbon for highly efficient lithium ion storage. <i>Nano Energy</i> , 2019, 58, 355-364.	8.2	137
70	High-performance hybrid oxide catalyst of manganese and cobalt for low-pressure methanol synthesis. <i>Nature Communications</i> , 2015, 6, 6538.	5.8	135
71	Surface-Assisted Formation, Assembly, and Dynamics of Planar Organometallic Macrocycles and Zigzag Shaped Polymer Chains with Câ€Cuâ€C Bonds. <i>ACS Nano</i> , 2014, 8, 709-718.	7.3	134
72	Synthesis of Subâ€2â€nm Ironâ€Doped NiSe ₂ Nanowires and Their Surfaceâ€Confined Oxidation for Oxygen Evolution Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4020-4024.	7.2	133

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73	Atomically Dispersed Ru on Ultrathin Pd Nanoribbons. <i>Journal of the American Chemical Society</i> , 2016, 138, 13850-13853.	6.6	132
74	Size-dependent catalytic activity over carbon-supported palladium nanoparticles in dehydrogenation of formic acid. <i>Journal of Catalysis</i> , 2017, 352, 371-381.	3.1	132
75	Multifunctional Au-Fe ₃ O ₄ @MOF core-shell nanocomposite catalysts with controllable reactivity and magnetic recyclability. <i>Nanoscale</i> , 2015, 7, 1201-1208.	2.8	130
76	Asymmetric Triple-Atom Sites Confined in Ternary Oxide Enabling Selective CO ₂ Photothermal Reduction to Acetate. <i>Journal of the American Chemical Society</i> , 2021, 143, 18233-18241.	6.6	130
77	Pt Single Atoms Embedded in the Surface of Ni Nanocrystals as Highly Active Catalysts for Selective Hydrogenation of Nitro Compounds. <i>Nano Letters</i> , 2018, 18, 3785-3791.	4.5	127
78	Perovskite Oxyfluoride Electrode Enabling Direct Electrolyzing Carbon Dioxide with Excellent Electrochemical Performances. <i>Advanced Energy Materials</i> , 2019, 9, 1803156.	10.2	127
79	Impact of the Coordination Environment on Atomically Dispersed Pt Catalysts for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020, 10, 907-913.	5.5	121
80	Optimizing reaction paths for methanol synthesis from CO ₂ hydrogenation via metal-ligand cooperativity. <i>Nature Communications</i> , 2019, 10, 1885.	5.8	116
81	Facile fabrication of CdS-metal-organic framework nanocomposites with enhanced visible-light photocatalytic activity for organic transformation. <i>Nano Research</i> , 2015, 8, 1834-1846.	5.8	114
82	Kinetic parameters of CO adsorbed on Pt(111) studied by in situ high resolution x-ray photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2002, 117, 10852-10859.	1.2	113
83	Synthesis of bipyridine-based covalent organic frameworks for visible-light-driven photocatalytic water oxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118271.	10.8	113
84	Understanding the degradation mechanism of rechargeable lithium/sulfur cells: a comprehensive study of the sulfur-graphene oxide cathode after discharge-charge cycling. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16931-16940.	1.3	112
85	Investigation of surface effects through the application of the functional binders in lithium sulfur batteries. <i>Nano Energy</i> , 2015, 16, 28-37.	8.2	112
86	Fe ₃ O ₄ @MOF core-shell magnetic microspheres as excellent catalysts for the Claisen-Schmidt condensation reaction. <i>Nanoscale</i> , 2014, 6, 1596-1601.	2.8	111
87	Post-combustion CO ₂ capture with the HKUST-1 and MIL-101(Cr) metal-organic frameworks: Adsorption, separation and regeneration investigations. <i>Microporous and Mesoporous Materials</i> , 2013, 179, 191-197.	2.2	109
88	Efficient Infrared-Light-Driven CO ₂ Reduction Over Ultrathin Metallic Ni-doped CoS ₂ Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8705-8709.	7.2	108
89	The Effect of Thermal Reduction on the Photoluminescence and Electronic Structures of Graphene Oxides. <i>Scientific Reports</i> , 2014, 4, 4525.	1.6	106
90	Fumarate-based metal-organic frameworks as a new platform for highly selective removal of fluoride from brick tea. <i>Scientific Reports</i> , 2018, 8, 939.	1.6	105

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91	Bottom-Up Synthesis of Metalated Carbyne. <i>Journal of the American Chemical Society</i> , 2016, 138, 1106-1109.	6.6	104
92	Suppression of Structural Phase Transition in VO ₂ by Epitaxial Strain in Vicinity of Metal-insulator Transition. <i>Scientific Reports</i> , 2016, 6, 23119.	1.6	102
93	Phase and Morphology Transformation of MnO ₂ Induced by Ionic Liquids toward Efficient Water Oxidation. <i>ACS Catalysis</i> , 2018, 8, 10137-10147.	5.5	102
94	Direct Synthesis of Nickel(II) Tetraphenylporphyrin and Its Interaction with a Au(111) Surface: A Comprehensive Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9908-9916.	1.5	100
95	Highly energy- and time-efficient synthesis of porous triazine-based framework: microwave-enhanced ionothermal polymerization and hydrogen uptake. <i>Journal of Materials Chemistry</i> , 2010, 20, 6413.	6.7	99
96	A Rational Self-Sacrificing Template Route to Metal-Organic Framework Nanotubes and Reversible Vapor-Phase Detection of Nitroaromatic Explosives. <i>Small</i> , 2012, 8, 225-230.	5.2	99
97	New setup for in situ x-ray photoelectron spectroscopy from ultrahigh vacuum to 1mbar. <i>Review of Scientific Instruments</i> , 2005, 76, 014102.	0.6	98
98	Ternary nickel-tungsten-copper alloy rivals platinum for catalyzing alkaline hydrogen oxidation. <i>Nature Communications</i> , 2021, 12, 2686.	5.8	98
99	Bi ₂ WO ₆ hollow microspheres with high specific surface area and oxygen vacancies for efficient photocatalysis N ₂ fixation. <i>Chemical Engineering Journal</i> , 2021, 414, 128827.	6.6	97
100	Production of Nitrogen-Doped Graphene by Low-Energy Nitrogen Implantation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5062-5066.	1.5	96
101	Quasi Pd ₁ Ni single-atom surface alloy catalyst enables hydrogenation of nitriles to secondary amines. <i>Nature Communications</i> , 2019, 10, 4998.	5.8	90
102	Single Ni sites distributed on N-doped carbon for selective hydrogenation of acetylene. <i>Chemical Communications</i> , 2017, 53, 11568-11571.	2.2	88
103	Efficient infrared light induced CO ₂ reduction with nearly 100% CO selectivity enabled by metallic CoN porous atomic layers. <i>Nano Energy</i> , 2020, 69, 104421.	8.2	88
104	Regulating the Interfacial Electronic Coupling of Fe ₂ N via Orbital Steering for Hydrogen Evolution Catalysis. <i>Advanced Materials</i> , 2020, 32, e1904346.	11.1	86
105	An efficient room temperature core-shell AgPd@MOF catalyst for hydrogen production from formic acid. <i>Nanoscale</i> , 2015, 7, 8321-8325.	2.8	85
106	Energy-level modulation of non-fullerene acceptors to achieve high-efficiency polymer solar cells at a diminished energy offset. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9649-9654.	5.2	83
107	On-Surface Pseudo-High-Dilution Synthesis of Macrocycles: Principle and Mechanism. <i>ACS Nano</i> , 2017, 11, 5070-5079.	7.3	83
108	Growth, Structure, and Stability of Ag on CeO ₂ (111): Synchrotron Radiation Photoemission Studies. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6715-6725.	1.5	78

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109	Carbon dots decorated ultrathin CdS nanosheets enabling in-situ anchored Pt single atoms: A highly efficient solar-driven photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118036.	10.8	77
110	In situ high-resolution XPS studies on adsorption of NO on Pt(111). <i>Surface Science</i> , 2003, 529, 384-396.	0.8	76
111	Confined Synthesis of Organometallic Chains and Macrocycles by Cu ⁺ O Surface Templating. <i>ACS Nano</i> , 2016, 10, 3747-3754.	7.3	73
112	Confined on-surface organic synthesis: Strategies and mechanisms. <i>Surface Science Reports</i> , 2019, 74, 97-140.	3.8	71
113	Selective CO ₂ Photoreduction into C ₂ Product Enabled by Charge-Polarized Metal Pair Sites. <i>Nano Letters</i> , 2021, 21, 2324-2331.	4.5	71
114	Surfactant-assisted synthesis of lanthanide metal-organic framework nanorods and their fluorescence sensing of nitroaromatic explosives. <i>Materials Letters</i> , 2011, 65, 1385-1387.	1.3	68
115	Thiophene Fused Azacoronenes: Regioselective Synthesis, Self-Organization, Charge Transport and Its Incorporation in Conjugated Polymers. <i>Chemistry of Materials</i> , 2014, 26, 3920-3927.	3.2	68
116	Kinetic Strategies for the Formation of Graphyne Nanowires via Sonogashira Coupling on Ag(111). <i>Journal of the American Chemical Society</i> , 2018, 140, 13421-13428.	6.6	68
117	One-Step Construction of a Hollow Au@Bimetal ⁺ Organic Framework Core ⁺ Shell Catalytic Nanoreactor for Selective Alcohol Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12463-12471.	4.0	68
118	Activated adsorption of methane on Pt(111) – an in situ XPS study. <i>New Journal of Physics</i> , 2005, 7, 107-107.	1.2	67
119	A Stable and Efficient Cathode for Fluorine ⁻ Containing Proton ⁺ Conducting Solid Oxide Fuel Cells. <i>ChemSusChem</i> , 2018, 11, 3423-3430.	3.6	67
120	On-surface synthesis and characterization of individual polyacetylene chains. <i>Nature Chemistry</i> , 2019, 11, 924-930.	6.6	67
121	Covalent, Organometallic, and Halogen-Bonded Nanomeshes from Tetrabromo-Terphenyl by Surface-Assisted Synthesis on Cu(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 13018-13025.	1.5	66
122	MOF-Derived Ultrathin Cobalt Phosphide Nanosheets as Efficient Bifunctional Hydrogen Evolution Reaction and Oxygen Evolution Reaction Electrocatalysts. <i>Nanomaterials</i> , 2018, 8, 89.	1.9	66
123	Towards full-spectrum photocatalysis: Achieving a Z-scheme between Ag ₂ S and TiO ₂ by engineering energy band alignment with interfacial Ag. <i>Nano Research</i> , 2015, 8, 3621-3629.	5.8	65
124	Polymorphic cobalt diselenide as extremely stable electrocatalyst in acidic media via a phase-mixing strategy. <i>Nature Communications</i> , 2019, 10, 5338.	5.8	65
125	Metal Charge Transfer Doped Carbon Dots with Reversibly Switchable, Ultra-High Quantum Yield Photoluminescence. <i>ACS Applied Nano Materials</i> , 2018, 1, 1886-1893.	2.4	64
126	Mesoporous Pd@Ru Core ⁺ Shell Nanorods for Hydrogen Evolution Reaction ⁺ in Alkaline Solution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34147-34152.	4.0	64

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127	Nobleâ€Metalâ€Free Janusâ€like Structures by Cation Exchange for Zâ€Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie</i> , 2017, 129, 4270-4274.	1.6	62
128	Scaledâ€Up Synthesis of Amorphous NiFeMo Oxides and Their Rapid Surface Reconstruction for Superior Oxygen Evolution Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 15919-15924.	1.6	62
129	Strongly Coupled Cobalt Diselenide Monolayers for Selective Electrocatalytic Oxygen Reduction to H ₂ O ₂ under Acidic Conditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26922-26931.	7.2	61
130	From covalent triazine-based frameworks to N-doped porous carbon/reduced graphene oxide nanosheets: efficient electrocatalysts for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23170-23178.	5.2	60
131	Efficient Photooxidation of Methane to Liquid Oxygenates over ZnO Nanosheets at Atmospheric Pressure and Near Room Temperature. <i>Nano Letters</i> , 2021, 21, 4122-4128.	4.5	60
132	A Critical Review on Black Phosphorusâ€Based Photocatalytic CO ₂ Reduction Application. <i>Small</i> , 2021, 17, e2102155.	5.2	60
133	Room-Temperature Photooxidation of CH ₄ to CH ₃ OH with Nearly 100% Selectivity over Hetero-ZnO/Fe ₂ O ₃ Porous Nanosheets. <i>Journal of the American Chemical Society</i> , 2022, 144, 12357-12366.	6.6	59
134	Highly Stable Grapheneâ€Based Multilayer Films Immobilized via Covalent Bonds and Their Applications in Organic Fieldâ€Effect Transistors. <i>Advanced Functional Materials</i> , 2013, 23, 2422-2435.	7.8	56
135	In Situ Topotactic Transformation of an Interstitial Alloy for CO Electroreduction. <i>Advanced Materials</i> , 2020, 32, e2002382.	11.1	56
136	Hollow CuS Nanoboxes as Liâ€Free Cathode for Highâ€Rate and Longâ€Life Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903401.	10.2	56
137	Conversion reaction of vanadium sulfide electrode in the lithium-ion cell: Reversible or not reversible?. <i>Nano Energy</i> , 2018, 51, 391-399.	8.2	55
138	Selective on-surface covalent coupling based on metal-organic coordination template. <i>Nature Communications</i> , 2019, 10, 70.	5.8	55
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