Ping Xu

List of Publications by Citations

232 papers	14,983 citations	65 h-index	116 g-index
245 ext. papers	18,118 ext. citations	8.1 avg, IF	6.96 L-index

#	Paper	IF	Citations
232	Contributions of Phase, Sulfur Vacancies, and Edges to the Hydrogen Evolution Reaction Catalytic Activity of Porous Molybdenum Disulfide Nanosheets. *Journal of the American Chemical Society*, **2016**, 138, 7965-72	16.4	811
231	Shell thickness-dependent microwave absorption of core-shell Fe3O4@C composites. *ACS Applied Materials & Interfaces*, **2014**, 6, 12997-3006	9.5	700
230	The electromagnetic property of chemically reduced graphene oxide and its application as microwave absorbing material. *Applied Physics Letters*, **2011**, 98, 072906	3.4	520
229	Rational design of core-shell Co@C microspheres for high-performance microwave absorption. *Carbon*, **2017**, 111, 722-732	10.4	493
228	Metal organic framework-derived Fe/C nanocubes toward efficient microwave absorption. *Journal of Materials Chemistry A*, **2015**, 3, 13426-13434	13	424
227	Graphene/graphene-tube nanocomposites templated from cage-containing metal-organic frameworks for oxygen reduction in Li-O batteries. *Advanced Materials*, **2014**, 26, 1378-86	24	360
226	Efficient Electrocatalytic and Photoelectrochemical Hydrogen Generation Using MoS2 and Related Compounds. *CheM*, **2016**, 1, 699-726	16.2	358
225	Constructing Uniform Core-Shell PPy@PANI Composites with Tunable Shell Thickness toward Enhancement in Microwave Absorption. *ACS Applied Materials & Interfaces*, **2015**, 7, 20090-9	9.5	343
224	Synthesis of electromagnetic functionalized nickel/polypyrrole core/shell composites. *Journal of Physical Chemistry B*, **2008**, 112, 10443-8	3.4	308
223	Synergistic Phase and Disorder Engineering in 1T-MoSe Nanosheets for Enhanced Hydrogen-Evolution Reaction. *Advanced Materials*, **2017**, 29, 1700311	24	303
222	Tuning Mixed Nickel Iron Phosphosulfide Nanosheet Electrocatalysts for Enhanced Hydrogen and Oxygen Evolution. *ACS Catalysis*, **2017**, 7, 8549-8557	13.1	215
221	Rational design of yolk-shell C@C microspheres for the effective enhancement in microwave absorption. *Carbon*, **2016**, 98, 599-606	10.4	209
220	Morphology-Controlled Synthesis and Electromagnetic Properties of Porous Fe3O4 Nanostructures from Iron Alkoxide Precursors. *Journal of Physical Chemistry C*, **2011**, 115, 12350-12357	3.8	203
219	Controlled Synthesis and Morphology-Dependent Electromagnetic Properties of Hierarchical Cobalt Assemblies. *Journal of Physical Chemistry C*, **2010**, 114, 14826-14830	3.8	186
218	Controlled Synthesis of Hierarchical Nickel and Morphology-Dependent Electromagnetic Properties. *Journal of Physical Chemistry C*, **2010**, 114, 3196-3203	3.8	186
217	A carbon-nanotube-supported graphene-rich non-precious metal oxygen reduction catalyst with enhanced performance durability. *Chemical Communications*, **2013**, 49, 3291-3	5.8	185
216	Mechanistic understanding of surface plasmon assisted catalysis on a single particle: cyclic redox of 4-aminothiophenol. *Scientific Reports*, **2013**, 3, 2997	4.9	177

215	Electromagnetic functionalized Co/C composites by in situ pyrolysis of metal-organic frameworks (ZIF-67). *Journal of Alloys and Compounds*, **2016**, 681, 384-393	5.7	177
214	MOFs-Derived Hollow Co/C Microspheres with Enhanced Microwave Absorption Performance. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8904-8913	8.3	170
213	The electromagnetic properties and microwave absorption of mesoporous carbon. *Materials Chemistry and Physics*, **2012**, 135, 884-891	4.4	164
212	Core-shell FeCo@carbon nanoparticles encapsulated in polydopamine-derived carbon nanocages for efficient microwave absorption. *Carbon*, **2019**, 145, 701-711	10.4	159
211	Multifunctional polymer-metal nanocomposites via direct chemical reduction by conjugated polymers. *Chemical Society Reviews*, **2014**, 43, 1349-60	58.5	159
210	Pea-like Fe/FeC Nanoparticles Embedded in Nitrogen-Doped Carbon Nanotubes with Tunable Dielectric/Magnetic Loss and Efficient Electromagnetic Absorption. *ACS Applied Materials & Interfaces*, **2019**, 11, 4268-4277	9.5	158
209	Prussian blue analogues derived porous nitrogen-doped carbon microspheres as high-performance metal-free peroxymonosulfate activators for non-radical-dominated degradation of organic pollutants. *Journal of Materials Chemistry A*, **2018**, 6, 884-895	13	157
208	Synthesis and Magnetic Properties of BaFe12O19 Hexaferrite Nanoparticles by a Reverse Microemulsion Technique. *Journal of Physical Chemistry C*, **2007**, 111, 5866-5870	3.8	156
207	Direct Transformation from Graphitic C3N4 to Nitrogen-Doped Graphene: An Efficient Metal-Free Electrocatalyst for Oxygen Reduction Reaction. *ACS Applied Materials & Interfaces*, **2015**, 7, 19626-34	9.5	151
206	S, N Dual-Doped Graphene-like Carbon Nanosheets as Efficient Oxygen Reduction Reaction Electrocatalysts. *ACS Applied Materials & Interfaces*, **2017**, 9, 398-405	9.5	148
205	Laser wavelength- and power-dependent plasmon-driven chemical reactions monitored using single particle surface enhanced Raman spectroscopy. *Chemical Communications*, **2013**, 49, 3389-91	5.8	146
204	Synthesis and Characterization of Novel Coralloid Polyaniline/BaFe12O19Nanocomposites. *Journal of Physical Chemistry C*, **2007**, 111, 12603-12608	3.8	146
203	Synthesis of electromagnetic functionalized Fe3O4 microspheres/polyaniline composites by two-step oxidative polymerization. *Journal of Physical Chemistry B*, **2012**, 116, 9523-31	3.4	142
202	Waxberry-like hierarchical Ni@C microspheres with high-performance microwave absorption. *Journal of Materials Chemistry C*, **2019**, 7, 5037-5046	7.1	127
201	2D Transition Metal Dichalcogenides: Design, Modulation, and Challenges in Electrocatalysis. *Advanced Materials*, **2021**, 33, e1907818	24	119
200	Microwave absorption enhancement of Fe3O4/polyaniline core/shell hybrid microspheres with controlled shell thickness. *Journal of Applied Polymer Science*, **2013**, 130, 1909-1916	2.9	118
199	Significantly Increased Raman Enhancement on MoX2 (X = S, Se) Monolayers upon Phase Transition. *Advanced Functional Materials*, **2017**, 27, 1606694	15.6	114
198	Understanding the Phase-Induced Electrocatalytic Oxygen Evolution Reaction Activity on FeOOH Nanostructures. *ACS Catalysis*, **2019**, 9, 10705-10711	13.1	113

197	Recent Advances in Plasmonic Nanostructures for Enhanced Photocatalysis and Electrocatalysis. *Advanced Materials*, **2021**, 33, e2000086	24	112
196	Advanced Electrocatalysis for Energy and Environmental Sustainability via Water and Nitrogen Reactions. *Advanced Materials*, **2021**, 33, e2000381	24	108
195	Interfacially Engineered Sandwich-Like rGO/Carbon Microspheres/rGO Composite as an Efficient and Durable Microwave Absorber. *Advanced Materials Interfaces*, **2016**, 3, 1500684	4.6	107
194	Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Production on CdS/CuS/g-CN Ternary Heterostructures. *ACS Applied Materials & Interfaces*, **2018**, 10, 20404-20411	9.5	104
193	Synthesis of electromagnetic functionalized barium ferrite nanoparticles embedded in polypyrrole. *Journal of Physical Chemistry B*, **2008**, 112, 2775-81	3.4	102
192	Recent progress in the applications of graphene in surface-enhanced Raman scattering and plasmon-induced catalytic reactions. *Journal of Materials Chemistry C*, **2015**, 3, 9024-9037	7.1	100
191	One-step synthesis of Mn3O4/reduced graphene oxide nanocomposites for oxygen reduction in nonaqueous Li-O2 batteries. *Chemical Communications*, **2013**, 49, 10838-40	5.8	100
190	Acid-directed synthesis of SERS-active hierarchical assemblies of silver nanostructures. *Journal of Materials Chemistry*, **2011**, 21, 2495-2501		100
189	Surfactant-Assisted Solvothermal Synthesis of Ba(CoTi)xFe12−xO19 Nanoparticles and Enhancement in Microwave Absorption Properties of Polyaniline. *Journal of Physical Chemistry C*, **2010**, 114, 19600-19606	3.8	94
188	Highly sensitive surface-enhanced Raman spectroscopy (SERS) platforms based on silver nanostructures fabricated on polyaniline membrane surfaces. *ACS Applied Materials & Interfaces*, **2012**, 4, 2752-6	9.5	91
187	High-Performance Direct Methanol Fuel Cells with Precious-Metal-Free Cathode. *Advanced Science*, **2016**, 3, 1600140	13.6	89
186	Synthesis of pomegranate-like Mo2C@C nanospheres for highly efficient microwave absorption. *Chemical Engineering Journal*, **2019**, 372, 312-320	14.7	85
185	Polyaniline: A New Metal-Free Catalyst for Peroxymonosulfate Activation with Highly Efficient and Durable Removal of Organic Pollutants. *Environmental Science & Technology*, **2019**, 53, 9771-9780	10.3	85
184	Metal organic framework-derived CoPS/N-doped carbon for efficient electrocatalytic hydrogen evolution. *Nanoscale*, **2018**, 10, 7291-7297	7.7	83
183	Surface plasmon-driven photocatalysis in ambient, aqueous and high-vacuum monitored by SERS and TERS. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2016**, 27, 100-112	16.4	81
182	Human-Hair-Derived N, S-Doped Porous Carbon: An Enrichment and Degradation System for Wastewater Remediation in the Presence of Peroxymonosulfate. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2718-2727	8.3	81
181	Structure-Dependent Electrocatalytic Properties of Cu2O Nanocrystals for Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2013**, 117, 13872-13878	3.8	79
180	Optimizing Composition and Morphology for Large-Grain Perovskite Solar Cells via Chemical Control. *Chemistry of Materials*, **2015**, 27, 5570-5576	9.6	78

179	One-pot interfacial synthesis of Au nanoparticles and Au□polyaniline nanocomposites for catalytic applications. *CrystEngComm*, **2012**, 14, 1542	3.3	77
178	A study of the magnetic and electromagnetic properties of □Fe2O3□multiwalled carbon nanotubes (MWCNT) and Fe/Fe3C□MWCNT composites. *Materials Chemistry and Physics*, **2009**, 114, 556-560	4.4	77
177	Bifunctional Nitrogen-Doped Microporous Carbon Microspheres Derived from Poly(o-methylaniline) for Oxygen Reduction and Supercapacitors. *ACS Applied Materials & Interfaces*, **2016**, 8, 3601-8	9.5	75
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173	Improved SOFC performance with continuously graded anode functional layer. *Electrochemistry Communications*, **2009**, 11, 1120-1123	5.1	70
172	Recent Advances in Conjugated Polymer-Based Microwave Absorbing Materials. *Polymers*, **2017**, 9,	4.5	68
171	Heterogeneous Interface Induced the Formation of Hierarchically Hollow Carbon Microcubes against Electromagnetic Pollution. *Small*, **2020**, 16, e2003407	11	68
170	Synthesis and microwave absorption enhancement of yolk□shell Fe3O4@C microspheres. *Journal of Materials Science*, **2017**, 52, 6349-6361	4.3	66
169	Study of the effects of nanometer □Ni(OH)2 in nickel hydroxide electrodes. *Electrochimica Acta*, **2005**, 50, 2763-2769	6.7	66
168	The contribution of doped-Al to the colossal permittivity properties of AlxNb0.03Ti0.97□O2 rutile ceramics. *Journal of Materials Chemistry C*, **2016**, 4, 6798-6805	7.1	65
167	Gas transport in porous electrodes of solid oxide fuel cells: A review on diffusion and diffusivity measurement. *Journal of Power Sources*, **2013**, 237, 64-73	8.9	62
166	A novel incorporating style of polyaniline/TiO2 composites as effective visible photocatalysts. *Journal of Molecular Catalysis A*, **2012**, 357, 19-25		61
165	Metal□Organic Frameworks Derived Interconnected Bimetallic Metaphosphate Nanoarrays for Efficient Electrocatalytic Oxygen Evolution. *Advanced Functional Materials*, **2020**, 30, 1910498	15.6	60
164	Super-Poissonian statistics of photon emission from single CdSe-CdS core-shell nanocrystals coupled to metal nanostructures. *Physical Review Letters*, **2013**, 110, 117401	7.4	60
163	Preparation and microwave absorption properties of Ni□B alloy-coated Fe3O4 particles. *Journal of Alloys and Compounds*, **2008**, 464, 352-356	5.7	60
162	Ultrasmall Mo2C Nanoparticle-Decorated Carbon Polyhedrons for Enhanced Microwave Absorption. *ACS Applied Nano Materials*, **2018**, 1, 5366-5376	5.6	60

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159	Unraveling the Raman Enhancement Mechanism on 1T′-Phase ReS Nanosheets. *Small*, **2018**, 14, e1704079	11	56
158	Rational design and synthesis of SnO 2 -encapsulated Fe 2 O 3 nanocubes as a robust and stable photo-Fenton catalyst. *Applied Catalysis B: Environmental*, **2017**, 210, 23-33	21.8	54
157	In Situ Surface-Enhanced Raman Spectroscopy Study of Plasmon-Driven Catalytic Reactions of 4-Nitrothiophenol under a Controlled Atmosphere. *ChemCatChem*, **2015**, 7, 1004-1010	5.2	53
156	Amino Acid-Assisted Synthesis of Hierarchical Silver Microspheres for Single Particle Surface-Enhanced Raman Spectroscopy. *Journal of Physical Chemistry C*, **2013**, 117, 10007-10012	3.8	53
155	Solvent-Free Synthesis of Ultrafine Tungsten Carbide Nanoparticles-Decorated Carbon Nanosheets for Microwave Absorption. *Nano-Micro Letters*, **2020**, 12, 153	19.5	53
154	Ultrasmall MnO Nanoparticles Supported on Nitrogen-Doped Carbon Nanotubes as Efficient Anode Materials for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 38401-38408	9.5	51
153	Self-supported Pt nanoclusters via galvanic replacement from Cu2O nanocubes as efficient electrocatalysts. *Nanoscale*, **2013**, 5, 7397-402	7.7	51
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150	Facile Synthesis of Polyaniline-Polypyrrole Nanofibers for Application in Chemical Deposition of Metal Nanoparticles. *Macromolecular Rapid Communications*, **2008**, 29, 1392-1397	4.8	49
149	Improving the intrinsic electrocatalytic hydrogen evolution activity of few-layer NiPS by cobalt doping. *Chemical Communications*, **2017**, 53, 8199-8202	5.8	48
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146	Porous Zn(Bmic)(AT) MOF with Abundant Amino Groups and Open Metal Sites for Efficient Capture and Transformation of CO. *Inorganic Chemistry*, **2019**, 58, 13917-13926	5.1	47
145	Stepwise Electrochemical Construction of FeOOH/Ni(OH)2 on Ni Foam for Enhanced Electrocatalytic Oxygen Evolution. *ACS Applied Energy Materials*, **2019**, 2, 3927-3935	6.1	45
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141	Effect of stoichiometry on the phase formation and magnetic properties of BaFe12O19 nanoparticles by reverse micelle technique. *Materials Letters*, **2008**, 62, 1305-1308	3.3	43
140	Preparation of YSZ thin films for intermediate temperature solid oxide fuel cells by dip-coating method. *Journal of Membrane Science*, **2008**, 320, 500-504	9.6	42
139	Dual functions of glucose induced composition-controllable Co/C microspheres as high-performance microwave absorbing materials. *Carbon*, **2020**, 168, 404-414	10.4	42
138	Understanding and Controlled Growth of Silver Nanoparticles Using Oxidized N-Methyl-pyrrolidone as a Reducing Agent. *Journal of Physical Chemistry C*, **2010**, 114, 36-40	3.8	41
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134	Synthesis and characterization of nanostructured polypyrroles: Morphology-dependent electrochemical responses and chemical deposition of Au nanoparticles. *Polymer*, **2009**, 50, 2624-2629	3.9	39
133	Facile Synthesis and Electrical Properties of Silver Wires through Chemical Reduction by Polyaniline. *Journal of Physical Chemistry C*, **2010**, 114, 22147-22154	3.8	37
132	Ultrafast Surface-Plasmon-Induced Photodimerization of p-Aminothiophenol on Ag/TiO2 Nanoarrays. *ChemCatChem*, **2016**, 8, 1819-1824	5.2	37
131	Enhanced Electrocatalytic Oxygen Evolution Activity by Tuning Both the Oxygen Vacancy and Orbital Occupancy of B-Site Metal Cation in NdNiO3. *Advanced Functional Materials*, **2019**, 29, 1902449	15.6	35
130	Conjugated polymer-mediated synthesis of nitrogen-doped carbon nanoribbons for oxygen reduction reaction. *Carbon*, **2017**, 124, 630-636	10.4	35
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127	Conjugated polymer-mediated synthesis of sulfur- and nitrogen-doped carbon nanotubes as efficient anode materials for sodium ion batteries. *Nano Research*, **2018**, 11, 2573-2585	10	34
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123	Phenyl-Bridged Graphitic Carbon Nitride with a Porous and Hollow Sphere Structure to Enhance Dissociation of Photogenerated Charge Carriers and Visible-Light-Driven H Generation. *ACS Applied Materials & Interfaces*, **2020**, 12, 41527-41537	9.5	33
122	Origin of the Ultrafast Response of the Lateral Photovoltaic Effect in Amorphous MoS/Si Junctions. *ACS Applied Materials & Interfaces*, **2017**, 9, 18362-18368	9.5	32
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120	Metal-free nitrogen-doped carbon nanoribbons as highly efficient electrocatalysts for oxygen reduction reaction. *Carbon*, **2017**, 124, 34-41	10.4	32
119	Solvent-free synthesis of hexagonal barium ferrite (BaFe12O19) particles. *Journal of Materials Science*, **2010**, 45, 2442-2448	4.3	32
118	Mild hydrothermal synthesis of hexagonal CuS nanoplates. *Journal of Crystal Growth*, **2008**, 310, 5437-5440	1.8	32
117	A confined microreactor synthesis strategy to three dimensional nitrogen-doped graphene for high-performance sodium ion battery anodes. *Journal of Power Sources*, **2018**, 378, 105-111	8.9	31
116	A crystalline amorphous NiNi(OH)2 core shell catalyst for the alkaline hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 23323-23329	13	31
115	Heteroatom-Doped Carbon Nanostructures Derived from Conjugated Polymers for Energy Applications. *Polymers*, **2016**, 8,	4.5	31
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111	Characterization of an ultrafine hickel hydroxide from supersonic co-precipitation method. *Journal of Alloys and Compounds*, **2007**, 436, 369-374	5.7	29
110	Effect of crystallinity on the electrochemical performance of nanometer Al-stabilized hickel hydroxide. *Journal of Alloys and Compounds*, **2008**, 462, 164-169	5.7	28
109	Prussian Blue Microcrystals with Morphology Evolution as a High-Performance Photo-Fenton Catalyst for Degradation of Organic Pollutants. *ACS Applied Materials & Interfaces*, **2019**, 11, 1174-1184	9.5	28
108	Homogeneous Metal Nitrate Hydroxide Nanoarrays Grown on Nickel Foam for Efficient Electrocatalytic Oxygen Evolution. *Small*, **2018**, 14, e1803783	11	28

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105	Morphology and physico-electrochemical properties of poly(aniline-co-pyrrole). *Synthetic Metals*, **2009**, 159, 430-434	3.6	27
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103	Fluorescent features of CdTe nanorods grafted to graphene oxide through an amidation process. *Journal of Materials Chemistry*, **2011**, 21, 11283		26
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101	Anion-Induced Size Selection of □Mo2C Supported on Nitrogen-Doped Carbon Nanotubes for Electrocatalytic Hydrogen Evolution. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 11922-11929	8.3	25
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98	Phenolic resin reinforcement: A new strategy for hollow NiCo@C microboxes against electromagnetic pollution. *Carbon*, **2021**, 174, 673-682	10.4	25
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96	Low Ru loading RuO2/(Co,Mn)3O4 nanocomposite with modulated electronic structure for efficient oxygen evolution reaction in acid. *Applied Catalysis B: Environmental*, **2021**, 297, 120442	21.8	25
95	Precursor-directed synthesis of porous cobalt assemblies with tunable close-packed hexagonal and face-centered cubic phases for the effective enhancement in microwave absorption. *Journal of Materials Science*, **2017**, 52, 4399-4411	4.3	24
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93	Fabrication of uniform Ru-doped NiFeO nanosheets as an efficient hydrogen evolution electrocatalyst. *Chemical Communications*, **2019**, 55, 14649-14652	5.8	24
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91	In Situ Growth of Amorphous Fe(OH) on Nickel Nitrate Hydroxide Nanoarrays for Enhanced Electrocatalytic Oxygen Evolution. *ACS Applied Materials & Interfaces*, **2020**, 12, 12668-12676	9.5	23
90	Low-Temperature Synthesis of Au/Polyaniline Nanocomposites: Toward Controlled Size, Morphology, and Size Dispersity. *Journal of Physical Chemistry C*, **2012**, 116, 11272-11277	3.8	23

89	An in situ SERS study of substrate-dependent surface plasmon induced aromatic nitration. *Journal of Materials Chemistry C*, **2015**, 3, 5285-5291	7.1	21
88	Single-Nanocrystal Photoluminescence Spectroscopy Studies of Plasmon-Multiexciton Interactions at Low Temperature. *Journal of Physical Chemistry Letters*, **2013**, 4, 1465-70	6.4	21
87	Sequential chemical deposition of metal alloy jellyfish using polyaniline: redox chemistry at the metal-polymer interface. *Chemical Communications*, **2011**, 47, 10764-6	5.8	21
86	Differential shrinkage induced formation of yolk-shell carbon microspheres toward enhanced microwave absorption. *Applied Physics Letters*, **2017**, 111, 133103	3.4	20
85	Magnetic and electromagnetic properties of composites of iron oxide and CoB alloy prepared by chemical reduction. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 14-21	2.8	20
84	Formation of Ag nanoparticles on water-soluble anatase TiO2 clusters and the activation of photocatalysis. *Catalysis Communications*, **2009**, 10, 1052-1056	3.2	20
83	Improved Interface Charge Transfer and Redistribution in CuO-CoOOH p-n Heterojunction Nanoarray Electrocatalyst for Enhanced Oxygen Evolution Reaction. *Advanced Science*, **2021**, 8, e2103314	13.6	20
82	Recent Advances in Plasmon-Promoted Organic Transformations Using Silver-Based Catalysts. *ACS Applied Materials & Interfaces*, **2020**, 12, 54266-54284	9.5	20
81	Highly Selective Electrocatalytic Reduction of CO into Methane on Cu-Bi Nanoalloys. *Journal of Physical Chemistry Letters*, **2020**, 11, 7261-7266	6.4	20
80	Phase transition induced Raman enhancement on vanadium dioxide (VO2) nanosheets. *Journal of Materials Chemistry C*, **2018**, 6, 10855-10860	7.1	20
79	Sustainability Perspective-Oriented Synthetic Strategy for Zinc Single-Atom Catalysts Boosting Electrocatalytic Reduction of Carbon Dioxide and Oxygen. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13813-13822	8.3	18
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