

Xun Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

240
papers

16,916
citations

66
h-index

124
g-index

254
ext. papers

19,340
ext. citations

12.4
avg, IF

7.31
L-index

#	Paper	IF	Citations
240	A general strategy for nanocrystal synthesis. <i>Nature</i> , 2005 , 437, 121-4	50.4	2257
239	Nearly Monodisperse Cu ₂ O and CuO Nanospheres: Preparation and Applications for Sensitive Gas Sensors. <i>Chemistry of Materials</i> , 2006 , 18, 867-871	9.6	966
238	Selected-control hydrothermal synthesis of alpha- and beta-MnO(2) single crystal nanowires. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2880-1	16.4	910
237	Synthesis and characterization of lanthanide hydroxide single-crystal nanowires. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4790-3	16.4	413
236	Three-dimensional assembly of single-layered MoS(2). <i>Advanced Materials</i> , 2014 , 26, 964-9	24	376
235	Noble metal alloy complex nanostructures: controllable synthesis and their electrochemical property. <i>Chemical Society Reviews</i> , 2015 , 44, 3056-78	58.5	359
234	Rare-Earth-compound nanowires, nanotubes, and fullerene-like nanoparticles: synthesis, characterization, and properties. <i>Chemistry - A European Journal</i> , 2003 , 9, 5627-35	4.8	321
233	Hydrothermal synthesis of rare-earth fluoride nanocrystals. <i>Inorganic Chemistry</i> , 2006 , 45, 6661-5	5.1	298
232	Ultrathin Pt-Cu nanosheets and nanocones. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18304-7	16.4	275
231	Systematic design of superaerophobic nanotube-array electrode comprised of transition-metal sulfides for overall water splitting. <i>Nature Communications</i> , 2018 , 9, 2452	17.4	269
230	Well-defined metal-organic framework hollow nanocages. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 429-33	16.4	255
229	Zirconium-Porphyrin-Based Metal-Organic Framework Hollow Nanotubes for Immobilization of Noble-Metal Single Atoms. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3493-3498	16.4	237
228	Approaches for measuring the surface areas of metal oxide electrocatalysts for determining their intrinsic electrocatalytic activity. <i>Chemical Society Reviews</i> , 2019 , 48, 2518-2534	58.5	227
227	Amorphous nickel-cobalt complexes hybridized with 1T-phase molybdenum disulfide via hydrazine-induced phase transformation for water splitting. <i>Nature Communications</i> , 2017 , 8, 15377	17.4	219
226	Rational synthesis of alpha-MnO ₂ single-crystal nanorods. <i>Chemical Communications</i> , 2002 , 764-5	5.8	205
225	A 1D/2D helical CdS/ZnIn ₂ S ₄ nano-heterostructure. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2339-43	16.4	186
224	Large-scale synthesis of metastable TiO ₂ (B) nanosheets with atomic thickness and their photocatalytic properties. <i>Chemical Communications</i> , 2010 , 46, 6801-3	5.8	178

223	Ni-Decorated Molybdenum Carbide Hollow Structure Derived from Carbon-Coated Metal-Organic Framework for Electrocatalytic Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016 , 28, 6313-6320	8.6	174
222	Monodisperse nanocrystals: general synthesis, assembly, and their applications. <i>Chemical Communications</i> , 2007 , 2901-10	5.8	163
221	Solution-based synthetic strategies for 1-D nanostructures. <i>Inorganic Chemistry</i> , 2006 , 45, 7522-34	5.1	161
220	MoO(3-x)-based hybrids with tunable localized surface plasmon resonances: chemical oxidation driving transformation from ultrathin nanosheets to nanotubes. <i>Chemistry - A European Journal</i> , 2012 , 18, 15283-7	4.8	159
219	Interface-mediated growth of monodispersed nanostructures. <i>Accounts of Chemical Research</i> , 2007 , 40, 635-43	24.3	146
218	Dendritic defect-rich palladium-copper-cobalt nanoalloys as robust multifunctional non-platinum electrocatalysts for fuel cells. <i>Nature Communications</i> , 2018 , 9, 3702	17.4	142
217	Well-Defined Metal-Organic-Framework Hollow Nanostructures for Catalytic Reactions Involving Gases. <i>Advanced Materials</i> , 2015 , 27, 5365-71	24	139
216	Ultrathin nanostructures: smaller size with new phenomena. <i>Chemical Society Reviews</i> , 2013 , 42, 5577-94	58.5	130
215	Fullerene-like rare-Earth nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3497-500	16.4	128
214	Construction of amphiphilic polyoxometalate mesostructures as a highly efficient desulfurization catalyst. <i>Advanced Materials</i> , 2011 , 23, 1130-5	24	126
213	Pd-Pt random alloy nanocubes with tunable compositions and their enhanced electrocatalytic activities. <i>Chemical Communications</i> , 2010 , 46, 1491-3	5.8	125
212	Multimetallic nanosheets: synthesis and applications in fuel cells. <i>Chemical Society Reviews</i> , 2018 , 47, 6175-6200	58.5	123
211	Ni ₃ Si ₂ O ₅ (OH) ₄ multi-walled nanotubes with tunable magnetic properties and their application as anode materials for lithium batteries. <i>Nano Research</i> , 2011 , 4, 882-890	10	112
210	Polyoxometalate nanocone nanoreactors: magnetic manipulation and enhanced catalytic performance. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3187-92	16.4	112
209	Ultrathin 2D Zirconium Metal-Organic Framework Nanosheets: Preparation and Application in Photocatalysis. <i>Small</i> , 2018 , 14, e1703929	11	110
208	Thermally stable silicate nanotubes. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2017-20	16.4	107
207	Face the Edges: Catalytic Active Sites of Nanomaterials. <i>Advanced Science</i> , 2015 , 2, 1500085	13.6	104
206	Metallic Transition-Metal Dichalcogenide Nanocatalysts for Energy Conversion. <i>CheM</i> , 2018 , 4, 1510-1537	16.2	97

205	Atomically thick Pt-Cu nanosheets: self-assembled sandwich and nanoring-like structures. <i>Advanced Materials</i> , 2015 , 27, 2013-8	24	91
204	Controlled Synthesis of Hollow Co/Mo Mixed Oxide Nanostructures and Their Electrocatalytic and Lithium Storage Properties. <i>Chemistry of Materials</i> , 2016 , 28, 2417-2423	9.6	90
203	Fine tuning of the structure of Pt-Cu alloy nanocrystals by glycine-mediated sequential reduction kinetics. <i>Small</i> , 2013 , 9, 3063-9	11	90
202	Magnesium Silicate Hollow Nanostructures as Highly Efficient Absorbents for Toxic Metal Ions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10441-10445	3.8	90
201	Secondary-Component Incorporated Hollow MOFs and Derivatives for Catalytic and Energy-Related Applications. <i>Advanced Materials</i> , 2019 , 31, e1800743	24	88
200	Fluorescence Resonant Energy Transfer Biosensor Based on Upconversion-Luminescent Nanoparticles. <i>Angewandte Chemie</i> , 2005 , 117, 6208-6211	3.6	88
199	An Efficient Cobalt Phosphide Electrocatalyst Derived from Cobalt Phosphonate Complex for All-pH Hydrogen Evolution Reaction and Overall Water Splitting in Alkaline Solution. <i>Small</i> , 2020 , 16, e1900550	11	86
198	Multi-node CdS hetero-nanowires grown with defect-rich oxygen-doped MoS ₂ ultrathin nanosheets for efficient visible-light photocatalytic H ₂ evolution. <i>Nano Research</i> , 2017 , 10, 1377-1392	10	85
197	Competitive coordination strategy for the synthesis of hierarchical-pore metal-organic framework nanostructures. <i>Chemical Science</i> , 2016 , 7, 7101-7105	9.4	84
196	Nickel Diselenide Ultrathin Nanowires Decorated with Amorphous Nickel Oxide Nanoparticles for Enhanced Water Splitting Electrocatalysis. <i>Small</i> , 2017 , 13, 1701487	11	83
195	Surfactant-encapsulated polyoxometalate building blocks: controlled assembly and their catalytic properties. <i>Dalton Transactions</i> , 2012 , 41, 9832-45	4.3	83
194	Seed Displacement, Epitaxial Synthesis of Rh/Pt Bimetallic Ultrathin Nanowires for Highly Selective Oxidizing Ethanol to CO ₂ . <i>Chemistry of Materials</i> , 2010 , 22, 2395-2402	9.6	83
193	Modifying Commercial Carbon with Trace Amounts of ZIF to Prepare Derivatives with Superior ORR Activities. <i>Advanced Materials</i> , 2017 , 29, 1701354	24	82
192	Rapid synthesis of mesoporous Ni ₃ Co ₃ (PO ₄) ₂ hollow shells showing enhanced electrocatalytic and supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20182-20188	13	82
191	Hierarchical Zn/Ni-MOF-2 Nanosheet-Assembled Hollow Nanocubes for Multicomponent Catalytic Reactions. <i>Angewandte Chemie</i> , 2014 , 126, 12725-12729	3.6	82
190	The synthesis strategies and photocatalytic performances of TiO ₂ /MOFs composites: A state-of-the-art review. <i>Chemical Engineering Journal</i> , 2020 , 391, 123601	14.7	77
189	Inorganic nanostructures with sizes down to 1 nm: a macromolecule analogue. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11115-24	16.4	75
188	Cluster-Based Self-Assembly: Reversible Formation of Polyoxometalate Nanocones and Nanotubes. <i>Chemistry of Materials</i> , 2009 , 21, 3745-3751	9.6	75

187	Fine tuning of the dimensionality of zinc silicate nanostructures and their application as highly efficient absorbents for toxic metal ions. <i>Nano Research</i> , 2010 , 3, 581-593	10	75
186	Hierarchical Zn/Ni-MOF-2 nanosheet-assembled hollow nanocubes for multicomponent catalytic reactions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12517-21	16.4	74
185	Monodispersed sub-5.0 nm PtCu nanoalloys as enhanced bifunctional electrocatalysts for oxygen reduction reaction and ethanol oxidation reaction. <i>Nanoscale</i> , 2017 , 9, 2963-2968	7.7	73
184	Cesium Lead Halide Perovskite Quantum Dots as a Photoluminescence Probe for Metal Ions. <i>Advanced Materials</i> , 2017 , 29, 1700150	24	73
183	Zirconium Porphyrin-Based Metal-Organic Framework Hollow Nanotubes for Immobilization of Noble-Metal Single Atoms. <i>Angewandte Chemie</i> , 2018 , 130, 3551-3556	3.6	72
182	Atomic-Level Nanorings (A-NRs) Therapeutic Agent for Photoacoustic Imaging and Photothermal/Photodynamic Therapy of Cancer. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1735-1739	16.4	71
181	Highly Active and Durable Pt ₇₂ Ru ₂₈ Porous Nanoalloy Assembled with Sub-4.0 nm Particles for Methanol Oxidation. <i>Advanced Energy Materials</i> , 2017 , 7, 1601593	21.8	69
180	Trimetallic Sulfide Mesoporous Nanospheres as Superior Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801839	21.8	69
179	Porous Tetrametallic PtCuBiMn Nanosheets with a High Catalytic Activity and Methanol Tolerance Limit for Oxygen Reduction Reactions. <i>Advanced Materials</i> , 2017 , 29, 1604994	24	68
178	Composition-driven shape evolution to Cu-rich PtCu octahedral alloy nanocrystals as superior bifunctional catalysts for methanol oxidation and oxygen reduction reaction. <i>Nanoscale</i> , 2018 , 10, 4670-4674	7.7	68
177	Surfactant encapsulated palladium-polyoxometalates: controlled assembly and their application as single-atom catalysts. <i>Chemical Science</i> , 2016 , 7, 1011-1015	9.4	68
176	Three-dimensional hierarchical Pt-Cu superstructures. <i>Nano Research</i> , 2015 , 8, 832-838	10	67
175	Visible-light-switched electron transfer over single porphyrin-metal atom center for highly selective electroreduction of carbon dioxide. <i>Nature Communications</i> , 2019 , 10, 3844	17.4	66
174	Microporous 2D NiCoFe phosphate nanosheets supported on Ni foam for efficient overall water splitting in alkaline media. <i>Nanoscale</i> , 2018 , 10, 12975-12980	7.7	65
173	A bifunctional MoS ₂ -based solar evaporator for both efficient water evaporation and clean freshwater collection. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11177-11185	13	63
172	Greener and size-specific synthesis of stable Fe-Cu oxides as earth-abundant adsorbents for malachite green. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9229-9236	8.3	63
171	Heterostructural CsPbX-PbS (X = Cl, Br, I) Quantum Dots with Tunable Vis-NIR Dual Emission. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4464-4471	16.4	62
170	Fine tuning of the sizes and phases of ZrO ₂ nanocrystals. <i>Nano Research</i> , 2009 , 2, 891-902	10	62

169	Nanoparticle Decorated Ultrathin Porous Nanosheets as Hierarchical Co ₃ O ₄ Nanostructures for Lithium Ion Battery Anode Materials. <i>Scientific Reports</i> , 2016 , 6, 20592	4.9	60
168	Fast and scalable synthesis of uniform zirconium-, hafnium-based metal-organic framework nanocrystals. <i>Nanoscale</i> , 2017 , 9, 19209-19215	7.7	60
167	Assembling Polyoxometalate Clusters into Advanced Nanoarchitectures. <i>Chemistry of Materials</i> , 2010 , 22, 3511-3518	9.6	60
166	Cobalt carbonate hydroxide superstructures for oxygen evolution reactions. <i>Chemical Communications</i> , 2017 , 53, 8010-8013	5.8	59
165	Atomic-level molybdenum oxide nanorings with full-spectrum absorption and photoresponsive properties. <i>Nature Communications</i> , 2017 , 8, 1559	17.4	57
164	Well-Defined Metal-Organic Framework Hollow Nanocages. <i>Angewandte Chemie</i> , 2014 , 126, 439-443	3.6	57
163	Molecule Channels Directed by Cation-Decorated Graphene Oxide Nanosheets and Their Application as Membrane Reactors. <i>Advanced Materials</i> , 2017 , 29, 1606093	24	56
162	Tuning the growth of metal-organic framework nanocrystals by using polyoxometalates as coordination modulators. <i>Science China Materials</i> , 2015 , 58, 370-377	7.1	56
161	Incorporation of clusters within inorganic materials through their addition during nucleation steps. <i>Nature Chemistry</i> , 2019 , 11, 839-845	17.6	55
160	Highly flexible sub-1 nm tungsten oxide nanobelts as efficient desulfurization catalysts. <i>Small</i> , 2015 , 11, 1144-9	11	55
159	A facile and general strategy for the synthesis of porous flowerlike Pt-based nanocrystals as effective electrocatalysts for alcohol oxidation. <i>Nanoscale</i> , 2016 , 8, 14705-10	7.7	51
158	Size- and surface-determined transformations: from ultrathin InOOH nanowires to uniform c-In ₂ O ₃ nanocubes and rh-In ₂ O ₃ nanowires. <i>Inorganic Chemistry</i> , 2009 , 48, 3890-5	5.1	51
157	Ultrasmall Pd-Cu-Pt Trimetallic Twin Icosahedrons Boost the Electrocatalytic Performance of Glycerol Oxidation at the Operating Temperature of Fuel Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1908235	15.6	50
156	The Sub-Nanometer Scale as a New Focus in Nanoscience. <i>Advanced Materials</i> , 2018 , 30, e1802031	24	50
155	Self-adjustable crystalline inorganic nanocoils. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6834-6841	16.4	50
154	Nanoconfined Water-Molecule Channels for High-Yield Solar Vapor Generation under Weaker Sunlight. <i>Advanced Materials</i> , 2020 , 32, e2001544	24	50
153	Surface Oxidation of AuNi Heterodimers to Achieve High Activities toward Hydrogen/Oxygen Evolution and Oxygen Reduction Reactions. <i>Small</i> , 2018 , 14, e1703749	11	49
152	Hierarchical CoS/MoS ₂ and Co ₃ S ₄ /MoS ₂ /Ni ₂ P nanotubes for efficient electrocatalytic hydrogen evolution in alkaline media. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25410-25419	13	49

151	General synthesis of inorganic single-walled nanotubes. <i>Nature Communications</i> , 2015 , 6, 8756	17.4	48
150	Polarized Optoelectronics of CsPbX ₃ (X = Cl, Br, I) Perovskite Nanoplates with Tunable Size and Thickness. <i>Advanced Functional Materials</i> , 2018 , 28, 1800283	15.6	47
149	Edge-Exposed Molybdenum Disulfide with N-Doped Carbon Hybridization: A Hierarchical Hollow Electrocatalyst for Carbon Dioxide Reduction. <i>Advanced Energy Materials</i> , 2019 , 9, 1900072	21.8	45
148	A redox targeting-based material recycling strategy for spent lithium ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2672-2677	35.4	45
147	Polyoxometalate Cluster-Incorporated Metal-Organic Framework Hierarchical Nanotubes. <i>Small</i> , 2016 , 12, 2982-90	11	45
146	Surface-specific interaction by structure-match confined pure high-energy facet of unstable TiO ₂ (B) polymorph. <i>Scientific Reports</i> , 2013 , 3, 1411	4.9	44
145	Shape controlled synthesis of porous tetrametallic PtAgBiCo nanoplates as highly active and methanol-tolerant electrocatalyst for oxygen reduction reaction. <i>Chemical Science</i> , 2017 , 8, 4292-4298	9.4	43
144	The formation of (NiFe) ₂ S pyrite mesocrystals as efficient pre-catalysts for water oxidation. <i>Chemical Science</i> , 2018 , 9, 2762-2767	9.4	43
143	A Versatile Bottom-up Assembly Approach to Colloidal Spheres from Nanocrystals. <i>Angewandte Chemie</i> , 2007 , 119, 6770-6773	3.6	43
142	Ultra-small Tetrametallic Pt-Pd-Rh-Ag Nanoframes with Tunable Behavior for Direct Formic Acid/Methanol Oxidation. <i>Small</i> , 2016 , 12, 5261-5268	11	42
141	Fabrication of NiFe layered double hydroxide with well-defined laminar superstructure as highly efficient oxygen evolution electrocatalysts. <i>Nano Research</i> , 2019 , 12, 1327-1331	10	42
140	Au/Ni ₂ P core/shell single-crystal nanoparticles as oxygen evolution reaction catalyst. <i>Nano Research</i> , 2017 , 10, 3103-3112	10	41
139	Multi-functionalized Inorganic/Organic Rare Earth Hybrid Microcapsules. <i>Advanced Materials</i> , 2008 , 20, 3739-3744	24	41
138	Simple, Low-Dose, Durable, and Carbon-Nanotube-Based Floating Solar Still for Efficient Desalination and Purification. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3925-3932	8.3	41
137	Polyoxometalate Clusters: Sub-nanometer Building Blocks for Construction of Advanced Materials. <i>Matter</i> , 2020 , 2, 816-841	12.7	41
136	Metal-Organic Framework Based Microcapsules. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10148-10152	16.4	41
135	Edge overgrowth of spiral bimetallic hydroxides ultrathin-nanosheets for water oxidation. <i>Chemical Science</i> , 2015 , 6, 3572-3576	9.4	40
134	Unique 1D Cd Zn S@O-MoS ₂ /NiO Nanohybrids: Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Evolution via Integrated Structural Regulation. <i>Small</i> , 2019 , 15, e1804115	11	40

133	Chemistry and properties at a sub-nanometer scale. <i>Chemical Science</i> , 2016 , 7, 3978-3991	9.4	39
132	Oxygen-Defected Molybdenum Oxides Hierarchical Nanostructure Constructed by Atomic-Level Thickness Nanosheets as an Efficient Absorber for Solar Steam Generation. <i>Solar Rrl</i> , 2019 , 3, 1800277	7.1	39
131	Heterogeneous Catalysts with Well-Defined Active Metal Sites toward CO ₂ Electrocatalytic Reduction. <i>Advanced Energy Materials</i> , 2020 , 10, 2001142	21.8	38
130	Template-Free Synthesis and Characterization of Single-Phase Voided Poly(o-anisidine) and Polyaniline Colloidal Spheres. <i>Chemistry of Materials</i> , 2007 , 19, 5773-5778	9.6	37
129	Epitaxy of Radial High-Energy-Faceted Ultrathin TiO ₂ Nanosheets onto Nanowires for Enhanced Photoreactivities. <i>Advanced Functional Materials</i> , 2016 , 26, 1580-1589	15.6	36
128	Redox Targeting-Based Vanadium Redox-Flow Battery. <i>ACS Energy Letters</i> , 2019 , 4, 3028-3035	20.1	36
127	Trimetallic PtCoFe Alloy Monolayer Superlattices as Bifunctional Oxygen-Reduction and Ethanol-Oxidation Electrocatalysts. <i>Small</i> , 2017 , 13, 1700250	11	35
126	Single molecule-mediated assembly of polyoxometalate single-cluster rings and their three-dimensional superstructures. <i>Science Advances</i> , 2019 , 5, eaax1081	14.3	35
125	Cluster-Nuclei Coassembled into Two-Dimensional Hybrid CuO-PMA Sub-1 nm Nanosheets. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18754-18758	16.4	35
124	Fullerene-Like Nickel Oxysulfide Hollow Nanospheres as Bifunctional Electrocatalysts for Water Splitting. <i>Small</i> , 2017 , 13, 1602637	11	35
123	Polyoxometalate-based supramolecular gel. <i>Scientific Reports</i> , 2013 , 3, 1833	4.9	35
122	Solution-based routes to transition-metal oxide one-dimensional nanostructures. <i>Pure and Applied Chemistry</i> , 2006 , 78, 45-64	2.1	35
121	Electrostatic Interaction-Directed Growth of Nickel Phosphate Single-Walled Nanotubes for High Performance Oxygen Evolution Reaction Catalysts. <i>Small</i> , 2016 , 12, 2969-74	11	35
120	Competitive Coordination Strategy to Finely Tune Pore Environment of Zirconium-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22732-22738	9.5	33
119	Hydroxyapatite nanocrystals: colloidal chemistry, assembly and their biological applications. <i>Inorganic Chemistry Frontiers</i> , 2014 , 1, 215-225	6.8	32
118	Polyoxometalate Nanocone Nanoreactors: Magnetic Manipulation and Enhanced Catalytic Performance. <i>Angewandte Chemie</i> , 2011 , 123, 3245-3250	3.6	31
117	Noble Metal Nanocrystal-Incorporated Fullerene-Like Polyoxometalate Based Microspheres. <i>Advanced Functional Materials</i> , 2009 , 19, 860-865	15.6	31
116	Synthesis and characterization of sulfide and selenide colloidal semiconductor nanocrystals. <i>Langmuir</i> , 2006 , 22, 7364-8	4	31

115	A monolayer polyoxometalate superlattice. <i>Advanced Materials</i> , 2014 , 26, 4339-44	24	30
114	3D self-assembly of ultrafine molybdenum carbide confined in N-doped carbon nanosheets for efficient hydrogen production. <i>Nanoscale</i> , 2017 , 9, 15895-15900	7.7	30
113	Surface Confinement Etching and Polarization Matter: A New Approach To Prepare Ultrathin PtAgCo Nanosheets for Hydrogen-Evolution Reactions. <i>Chemistry of Materials</i> , 2017 , 29, 6329-6335	9.6	30
112	Combinatorial Hierarchically Ordered 2D Architectures Self-assembled from Nanocrystal Building Blocks. <i>Advanced Materials</i> , 2008 , 20, 3702-3708	24	30
111	Size-dependent surface activity of rutile and anatase TiO ₂ nanocrystals: facile surface modification and enhanced photocatalytic performance. <i>Chemistry - A European Journal</i> , 2012 , 18, 4759-65	4.8	29
110	Sub-1 nm Nanowire Based Superlattice Showing High Strength and Low Modulus. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8579-8585	16.4	28
109	Water Delivery Channel Design in Solar Evaporator for Efficient and Durable Water Evaporation with Salt Rejection. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7753-7761	8.3	28
108	Iron Hydroxide-Modified Nickel Hydroxylphosphate Single-Wall Nanotubes as Efficient Electrocatalysts for Oxygen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9407-9414	8.5	28
107	MnO ₂ nanowires as building blocks for the construction of 3D macro-assemblies. <i>Chemical Communications</i> , 2012 , 48, 5925-7	5.8	28
106	Thermally Stable Silicate Nanotubes. <i>Angewandte Chemie</i> , 2004 , 116, 2051-2054	3.6	28
105	Perovskite Nano-Heterojunctions: Synthesis, Structures, Properties, Challenges, and Prospects. <i>Small Structures</i> , 2020 , 1, 2000009	8.7	27
104	Sub-1 nm Nickel Molybdate Nanowires as Building Blocks of Flexible Paper and Electrochemical Catalyst for Water Oxidation. <i>Small</i> , 2016 , 12, 1006-12	11	26
103	Composition-controllable synthesis of defect-rich PtPdCu nanoalloys with hollow cavities as superior electrocatalysts for alcohol oxidation. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1217-1222	7.8	25
102	Multivalent assembly of ultrasmall nanoparticles: One-, two-, and three-dimensional architectures of 2 nm gold nanoparticles. <i>Nano Research</i> , 2012 , 5, 283-291	10	25
101	Acquired pH-responsive and reversible enrichment of organic dyes by peroxide modified ultrathin TiO ₂ nanosheets. <i>Chemical Communications</i> , 2011 , 47, 11456-8	5.8	25
100	POM-Incorporated CoO Nanowires for Enhanced Photocatalytic Syngas Production from CO. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15527-15531	16.4	24
99	Formamide: an efficient solvent to synthesize water-soluble and sub-ten-nanometer nanocrystals. <i>Nanoscale</i> , 2013 , 5, 4495-505	7.7	24
98	Chirality Evolution from Sub-1 Nanometer Nanowires to the Macroscopic Helical Structure. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1375-1381	16.4	24

97	Van der Waals Integrated Hybrid POM-Zirconia Flexible Belt-Like Superstructures. <i>Advanced Materials</i> , 2020 , 32, e1906794	24	24
96	Enhancing CO Electrocatalysis on 2D Porphyrin-Based Metal-Organic Framework Nanosheets Coupled with Visible-Light.. <i>Small Methods</i> , 2021 , 5, e2000991	12.8	24
95	Silver nanocrystal-decorated polyoxometalate single-walled nanotubes as nanoreactors for desulfurization catalysis at room temperature. <i>Nanoscale</i> , 2017 , 9, 13334-13340	7.7	23
94	Free-Standing CoO-POM Janus-like Ultrathin Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8497-8501	16.4	22
93	An All-Inorganic Colloidal Nanocrystal Flexible Polarizer. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8730-8735	16.4	21
92	Puffing quaternary Fe _x CoyNi _{1-x-y} P nanoarray via kinetically controlled alkaline etching for robust overall water splitting. <i>Science China Materials</i> , 2020 , 63, 1054-1064	7.1	21
91	Trimetallic palladium-copper-cobalt alloy wavy nanowires improve ethanol electrooxidation in alkaline medium. <i>Nanoscale</i> , 2019 , 11, 19448-19454	7.7	21
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