

Xun Wang

List of Publications by Year in Descending Order

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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	2D Conjugated metal-organic frameworks for CO ₂ electroreduction. <i>SmartMat</i> , 2022 , 3, 54-67	22.8	3
239	Cluster-Nuclei Coassembled One-Dimensional Subnanometer Heteronanostructures. <i>Nano Letters</i> , 2021 , 21, 9845-9852	11.5	0
238	Recent Progress of Sub-Nanometric Materials in Photothermal Energy Conversion. <i>Advanced Science</i> , 2021 , 9, e2104225	13.6	2
237	Tailoring Layer Number of 2D Porphyrin-Based MOF Towards Photo-Coupled Electroreduction of CO. <i>Advanced Materials</i> , 2021 , e2107293	24	8
236	Polyoxometalates Facilitating Synthesis of Subnanometer Nanowires. <i>Advanced Functional Materials</i> , 2021 , 31, 2100703	15.6	14
235	Reversible Transformation between CsPbBr ₃ Perovskite Nanowires and Nanorods with Polarized Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2021 , 31, 2011251	15.6	9
234	Water Purification: Sphagnum Inspired g-C ₃ N ₄ Nano/Microspheres with Smaller Bandgap in Heterojunction Membranes for Sunlight-Driven Water Purification (Small 12/2021). <i>Small</i> , 2021 , 17, 2170054	11	0
233	Single-Unit-Cell Catalysis of CO ₂ Electroreduction over Sub-1 nm Cu ₉ S ₅ Nanowires. <i>Advanced Energy Materials</i> , 2021 , 11, 2100272	21.8	8
232	Sub-Nanometer Nanobelts Based on Titanium Dioxide/Zirconium Dioxide-Polyoxometalate Heterostructures. <i>Advanced Materials</i> , 2021 , 33, e2100576	24	17
231	Cluster-assembled materials: Ordered structures with advanced properties. <i>Information Materials</i> , 2021 , 3, 854-868	23.1	3
230	Boosting CO Electroreduction via the Synergistic Effect of Tuning Cationic Clusters and Visible-Light Irradiation. <i>Advanced Materials</i> , 2021 , 33, e2101886	24	6
229	Temperature-Responsive Self-Assembly of Single Polyoxometalates Clusters Driven by Hydrogen Bonds. <i>Advanced Functional Materials</i> , 2021 , 31, 2103561	15.6	4
228	Single-Crystal Inorganic Helical Architectures Induced by Asymmetrical Defects in Sub-Nanometric Wires. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9858-9865	16.4	4
227	CsPbX-ITO (X = Cl, Br, I) Nano-Heterojunctions: Voltage Tuned Positive to Negative Photoresponse. <i>Small</i> , 2021 , 17, e2101403	11	5
226	A General Strategy to Synthesize Ultrathin Palladium/Transition Metal Alloy Nanowires: Anti-Poisoned Electrocatalytic Performance for the Oxygen Reduction Reaction in Acidic and Alkaline Media. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14646-14655	3.8	5
225	Redox-Mediated Ambient Electrolytic Nitrogen Reduction for Hydrazine and Ammonia Generation. <i>Angewandte Chemie</i> , 2021 , 133, 18869-18875	3.6	1
224	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

223	Surface organic ligand-passivated quantum dots: toward high-performance light-emitting diodes with long lifetimes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2483-2490	7.1	7
222	Sphagnum Inspired g-C N Nano/Microspheres with Smaller Bandgap in Heterojunction Membranes for Sunlight-Driven Water Purification. <i>Small</i> , 2021 , 17, e2007122	11	16
221	Helical Microporous Nanorods Assembled by Polyoxometalate Clusters for the Photocatalytic Oxidation of Toluene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17404-17409	16.4	8
220	Redox-Mediated Ambient Electrolytic Nitrogen Reduction for Hydrazine and Ammonia Generation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18721-18727	16.4	11
219	Helical Microporous Nanorods Assembled by Polyoxometalate Clusters for the Photocatalytic Oxidation of Toluene. <i>Angewandte Chemie</i> , 2021 , 133, 17544-17549	3.6	1
218	Polyoxometalate Interlayered Zinc-Metallophthalocyanine Molecular Layer Sandwich as Photocoupled Electrocatalytic CO Reduction Catalyst. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13721-13730	16.4	10
217	Ni(OH) ₂ -Polyoxometalate Cluster Hybrid Superstructures. <i>Chemistry of Materials</i> , 2021 , 33, 7100-7105	9.6	2
216	Ultrathin PdAuBiTe Nanosheets as High-Performance Oxygen Reduction Catalysts for a Direct Methanol Fuel Cell Device. <i>Advanced Materials</i> , 2021 , 33, e2103383	24	13
215	ZnO-POM Cluster Sub-1 nm Nanosheets as Robust Catalysts for the Oxidation of Thioethers at Room Temperature. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16217-16225	16.4	13
214	Ternary hybrid CuO-PMA-Ag sub-1 nm nanosheet heterostructures. <i>Chemical Science</i> , 2021 , 12, 11490-11494	11.4	2
213	Au-Polyoxometalates A-B-A-B Type Copolymer-Analogue Sub-1 nm Nanowires. <i>Small</i> , 2021 , 17, e2006260	6.1	8
212	Sub-One-Nanometer Nanomaterials Showing Polymer-Analogue Properties 2020 , 2, 639-643		7
211	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
210	POM-Incorporated CoO Nanowires for Enhanced Photocatalytic Syngas Production from CO. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15527-15531	16.4	24
209	Heterogeneous Catalysts with Well-Defined Active Metal Sites toward CO ₂ Electrocatalytic Reduction. <i>Advanced Energy Materials</i> , 2020 , 10, 2001142	21.8	38
208	POM-Incorporated CoO Nanowires for Enhanced Photocatalytic Syngas Production from CO ₂ . <i>Angewandte Chemie</i> , 2020 , 132, 15657-15661	3.6	1
207	Polyoxometalate-Zirconia Coassembled Microdumbbells for Efficient Capture of Iodine 2020 , 2, 461-465		3
206	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

205	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
204	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
203	The Synthesis of Sub-Nano-Thick Pd Nanobelt-Based Materials for Enhanced Hydrogen Evolution Reaction Activity. <i>CCS Chemistry</i> , 2020 , 2, 642-654	7.2	2
202	The Synthesis of Sub-Nano-Thick Pd Nanobelt-Based Materials for Enhanced Hydrogen Evolution Reaction Activity. <i>CCS Chemistry</i> , 2020 , 2, 642-654	7.2	7
201	Free-Standing CoO-POM Janus-like Ultrathin Nanosheets. <i>Angewandte Chemie</i> , 2020 , 132, 8575-8579	3.6	6
200	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
199	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
198	Recent progress in pyrolyzed carbon materials as electrocatalysts for the oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 28-36	6.8	19
197	Van der Waals Integrated Hybrid POM-Zirconia Flexible Belt-Like Superstructures. <i>Advanced Materials</i> , 2020 , 32, e1906794	24	24
196	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
195	Freestanding Millimeter-Scale Porphyrin-Based Monoatomic Layers with 0.28 nm Thickness for CO Electro-catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18954-18959	16.4	18
194	Freestanding Millimeter-Scale Porphyrin-Based Monoatomic Layers with 0.28 nm Thickness for CO ₂ Electro-catalysis. <i>Angewandte Chemie</i> , 2020 , 132, 19116-19121	3.6	0
193	Noble metal nanoclusters-decorated NiFe layered double hydroxide superstructure as nanoreactors for selective hydrogenation catalysis. <i>Nanoscale</i> , 2020 , 12, 17780-17785	7.7	2
192	Perovskite Nano-Heterojunctions: Synthesis, Structures, Properties, Challenges, and Prospects. <i>Small Structures</i> , 2020 , 1, 2000009	8.7	27
191	Hybrid MoO-Polyoxometallate Sub-1 nm Nanobelt Superstructures. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17557-17563	16.4	20
190	Nanoconfined Water-Molecule Channels for High-Yield Solar Vapor Generation under Weaker Sunlight. <i>Advanced Materials</i> , 2020 , 32, e2001544	24	50
189	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
188	Free-Standing CoO-POM Janus-like Ultrathin Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8497-8501	16.4	22

187	Polyoxometalate Clusters: Sub-nanometer Building Blocks for Construction of Advanced Materials. <i>Matter</i> , 2020 , 2, 816-841	12.7	41
186	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
185	Boosting the ORR performance of modified carbon black C-O bonds. <i>Chemical Science</i> , 2019 , 10, 2118-2124	12.4	15
184	Hybrid nanostructures of pit-rich TiO nanocrystals with Ru loading and N doping for enhanced solar water splitting. <i>Chemical Communications</i> , 2019 , 55, 2781-2784	5.8	10
183	2-Methylimidazole assisted ultrafast synthesis of carboxylate-based metal-organic framework nano-structures in aqueous medium at room temperature. <i>Science Bulletin</i> , 2019 , 64, 1103-1109	10.6	6
182	An All-Inorganic Colloidal Nanocrystal Flexible Polarizer. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8730-8735	16.4	21
181	An All-Inorganic Colloidal Nanocrystal Flexible Polarizer. <i>Angewandte Chemie</i> , 2019 , 131, 8822-8827	3.6	4
180	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
179	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
178	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
177	Phase Control in Inorganic Nanocrystals through Finely Tuned Growth at an Ultrathin Scale. <i>Accounts of Chemical Research</i> , 2019 , 52, 780-790	24.3	17
176	Secondary-Component Incorporated Hollow MOFs and Derivatives for Catalytic and Energy-Related Applications. <i>Advanced Materials</i> , 2019 , 31, e1800743	24	88
175	Incorporation of clusters within inorganic materials through their addition during nucleation steps. <i>Nature Chemistry</i> , 2019 , 11, 839-845	17.6	55
174	Trimetallic palladium-copper-cobalt alloy wavy nanowires improve ethanol electrooxidation in alkaline medium. <i>Nanoscale</i> , 2019 , 11, 19448-19454	7.7	21
173	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
172	Self-Assembly of Ultrathin Nanocrystals to Multidimensional Superstructures. <i>Langmuir</i> , 2019 , 35, 10246-10269	10.266	9
171	Highly Flexible and Stretchable Nanowire Superlattice Fibers Achieved by Spring-Like Structure of Sub-1 nm Nanowires. <i>Advanced Functional Materials</i> , 2019 , 29, 1903477	15.6	8
170	Single molecule-mediated assembly of polyoxometalate single-cluster rings and their three-dimensional superstructures. <i>Science Advances</i> , 2019 , 5, eaax1081	14.3	35

169	Photo- and thermo-coupled electrocatalysis in carbon dioxide and methane conversion. <i>Science China Materials</i> , 2019 , 62, 1369-1373	7.1	19
168	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
167	Solvothermal Synthesis of Nanomaterials. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2019 , 23-58	0.1	
166	Bio-inspired synthesis of mesoporous HfO nanoframes as reactors for piezotronic polymerization and Suzuki coupling reactions. <i>Nanoscale</i> , 2019 , 11, 5240-5246	7.7	4
165	Redox Targeting-Based Vanadium Redox-Flow Battery. <i>ACS Energy Letters</i> , 2019 , 4, 3028-3035	20.1	36
164	Unique 1D Cd Zn S@O-MoS /NiO Nanohybrids: Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Evolution via Integrated Structural Regulation. <i>Small</i> , 2019 , 15, e1804115	11	40
163	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
162	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
161	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
160	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
159	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
158	Multimetallic nanosheets: synthesis and applications in fuel cells. <i>Chemical Society Reviews</i> , 2018 , 47, 6175-6200	58.5	123
157	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
156	ZirconiumPorphyrin-Based MetalOrganic Framework Hollow Nanotubes for Immobilization of Noble-Metal Single Atoms. <i>Angewandte Chemie</i> , 2018 , 130, 3551-3556	3.6	72
155	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
154	The formation of (NiFe)S pyrite mesocrystals as efficient pre-catalysts for water oxidation. <i>Chemical Science</i> , 2018 , 9, 2762-2767	9.4	43
153	Mimic the Photosystem II for Water Oxidation in Neutral Solution: A Case of Co ₃ O ₄ . <i>Advanced Energy Materials</i> , 2018 , 8, 1702313	21.8	14
152	Biotechnology smart control over stem cell fate commitment at nanoscale. <i>Science China Materials</i> , 2018 , 61, 435-436	7.1	

151	Nanosheet-Assembled Hierarchical Carbon Nanoframeworks Bearing a Multiactive Center for Oxygen Reduction Reaction. <i>Small Methods</i> , 2018 , 2, 1800068	12.8	17
150	Metallic Transition-Metal Dichalcogenide Nanocatalysts for Energy Conversion. <i>CheM</i> , 2018 , 4, 1510-15376.2	76.2	97
149	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
148	Ultrathin 2D Zirconium Metal-Organic Framework Nanosheets: Preparation and Application in Photocatalysis. <i>Small</i> , 2018 , 14, e1703929	11	110
147	Theoretical investigations of transport properties of organic solvents in cation-functionalized graphene oxide membranes: Implications for drug delivery. <i>Nano Research</i> , 2018 , 11, 254-263	10	7
146	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
145	The Sub-Nanometer Scale as a New Focus in Nanoscience. <i>Advanced Materials</i> , 2018 , 30, e1802031	24	50
144	Synthesis of self-assembled PtPdAg nanostructures with a high catalytic activity for oxygen reduction reactions. <i>Nanoscale</i> , 2018 , 10, 17140-17147	7.7	10
143	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
142	Three-dimensional macroscale assembly of Pd nanoclusters. <i>Nano Research</i> , 2018 , 11, 3175-3181	10	3
141	Probing Ligand-Induced Cooperative Orbital Redistribution That Dominates Nanoscale Molecule-Surface Interactions with One-Unit-Thin TiO Nanosheets. <i>Nano Letters</i> , 2018 , 18, 7809-7815	11.5	18
140	Ultrathin Tungsten Bronze Nanowires with Efficient Photo-to-Thermal Conversion Behavior. <i>Chemistry of Materials</i> , 2018 , 30, 8727-8731	9.6	16
139	Trimetallic Sulfide Mesoporous Nanospheres as Superior Electrocatalysts for Rechargeable Zn/Air Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801839	21.8	69
138	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
137	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
136	Metal-Organic Framework Based Microcapsules. <i>Angewandte Chemie</i> , 2018 , 130, 10305-10309	3.6	13
135	Metal-Organic Framework Based Microcapsules. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10148-10152	16.4	41
134	Molecule Channels Directed by Cation-Decorated Graphene Oxide Nanosheets and Their Application as Membrane Reactors. <i>Advanced Materials</i> , 2017 , 29, 1606093	24	56

133	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
132	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
131	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
130	Au/Ni ₁₂ P ₅ core/shell single-crystal nanoparticles as oxygen evolution reaction catalyst. <i>Nano Research</i> , 2017 , 10, 3103-3112	10	41
129	Trimetallic PtCoFe Alloy Monolayer Superlattices as Bifunctional Oxygen-Reduction and Ethanol-Oxidation Electrocatalysts. <i>Small</i> , 2017 , 13, 1700250	11	35
128	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
127	Modifying Commercial Carbon with Trace Amounts of ZIF to Prepare Derivatives with Superior ORR Activities. <i>Advanced Materials</i> , 2017 , 29, 1701354	24	82
126	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
125	Cobalt carbonate hydroxide superstructures for oxygen evolution reactions. <i>Chemical Communications</i> , 2017 , 53, 8010-8013	5.8	59
124	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
123	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
122	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
121	Titanocene dichloride (CpTiCl ₂) as a precursor for template-free fabrication of hollow TiO ₂ nanostructures with enhanced photocatalytic hydrogen production. <i>Nanoscale</i> , 2017 , 9, 2074-2081	7.7	20
120	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
119	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
118	One-pot synthesis of dendritic PtNi nanoalloys as nonenzymatic electrochemical biosensors with high sensitivity and selectivity for dopamine detection. <i>Nanoscale</i> , 2017 , 9, 10998-11003	7.7	21
117	Nickel Diselenide Ultrathin Nanowires Decorated with Amorphous Nickel Oxide Nanoparticles for Enhanced Water Splitting Electrocatalysis. <i>Small</i> , 2017 , 13, 1701487	11	83
116	Finely Composition-Tunable Synthesis of Ultrafine Wavy PtRu Nanowires as Effective Electrochemical Sensors for Dopamine Detection. <i>Langmuir</i> , 2017 , 33, 8070-8075	4	21

115	Mesoporous ZrO Nanoframes for Biomass Upgrading. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26897-26906	9.5	19
114	Cesium Lead Halide Perovskite Quantum Dots as a Photoluminescence Probe for Metal Ions. <i>Advanced Materials</i> , 2017 , 29, 1700150	24	73
113	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
112	Atomic-level molybdenum oxide nanorings with full-spectrum absorption and photoresponsive properties. <i>Nature Communications</i> , 2017 , 8, 1559	17.4	57
111	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
110	Fast and scalable synthesis of uniform zirconium-, hafnium-based metal-organic framework nanocrystals. <i>Nanoscale</i> , 2017 , 9, 19209-19215	7.7	60
109	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
108	Fullerene-Like Nickel Oxysulfide Hollow Nanospheres as Bifunctional Electrocatalysts for Water Splitting. <i>Small</i> , 2017 , 13, 1602637	11	35
107	Sub-2.0-nm Ru and composition-tunable RuPt nanowire networks. <i>Nano Research</i> , 2016 , 9, 3066-3074	10	19
106	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
105	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	9.6	174
104	Crystallinity-induced shape evolution of Pt-Ag nanosheets from branched nanocrystals. <i>Chemical Communications</i> , 2016 , 52, 10547-50	5.8	13
103	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
102	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
101	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
100	Controlled Synthesis of Hollow CoMo Mixed Oxide Nanostructures and Their Electrocatalytic and Lithium Storage Properties. <i>Chemistry of Materials</i> , 2016 , 28, 2417-2423	9.6	90
99	Chemistry and properties at a sub-nanometer scale. <i>Chemical Science</i> , 2016 , 7, 3978-3991	9.4	39
98	Surfactant encapsulated palladium-polyoxometalates: controlled assembly and their application as single-atom catalysts. <i>Chemical Science</i> , 2016 , 7, 1011-1015	9.4	68

97	Polyoxometalate Cluster-Incorporated Metal-Organic Framework Hierarchical Nanotubes. <i>Small</i> , 2016 , 12, 2982-90	11	45
96	Generalized Synthesis of Hierarchical Transition Metal Dichalcogenide Nanosheets from Polyoxometalates. <i>ChemNanoMat</i> , 2016 , 2, 665-670	3.5	1
95	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
94	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
93	Competitive coordination strategy for the synthesis of hierarchical-pore metal-organic framework nanostructures. <i>Chemical Science</i> , 2016 , 7, 7101-7105	9.4	84
92	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
91	Nanostructure formation via post growth of particles. <i>CrystEngComm</i> , 2015 , 17, 6796-6808	3.3	10
90	Zinc Sulfide Nanosheet-Based Hybrid Superlattices with Tunable Architectures Showing Enhanced Photoelectrochemical Properties. <i>Small</i> , 2015 , 11, 3909-15	11	11
89	Edge overgrowth of spiral bimetallic hydroxides ultrathin-nanosheets for water oxidation. <i>Chemical Science</i> , 2015 , 6, 3572-3576	9.4	40
88	Noble metal alloy complex nanostructures: controllable synthesis and their electrochemical property. <i>Chemical Society Reviews</i> , 2015 , 44, 3056-78	58.5	359
87	General synthesis of inorganic single-walled nanotubes. <i>Nature Communications</i> , 2015 , 6, 8756	17.4	48
86	Synthesis of Mo-based nanostructures from organic-inorganic hybrid with enhanced electrochemical for water splitting. <i>Science China Materials</i> , 2015 , 58, 775-784	7.1	19
85	Three-dimensional hierarchical Pt-Cu superstructures. <i>Nano Research</i> , 2015 , 8, 832-838	10	67
84	Face the Edges: Catalytic Active Sites of Nanomaterials. <i>Advanced Science</i> , 2015 , 2, 1500085	13.6	104
83	Well-Defined Metal-Organic-Framework Hollow Nanostructures for Catalytic Reactions Involving Gases. <i>Advanced Materials</i> , 2015 , 27, 5365-71	24	139
82	Ultrathin 2D Nanolayer of RuO ₂ Effectively Enhances Charge Separation in the Photochemical Processes of TiO ₂ . <i>Small</i> , 2015 , 11, 4469-74	11	9
81	Rational synthesis and the structure-property relationships of nanoheterostructures: a combinative study of experiments and theory. <i>NPG Asia Materials</i> , 2015 , 7, e164-e164	10.3	16
80	Chemically synthetic graphdiynes: application in energy conversion fields and the beyond. <i>Science China Materials</i> , 2015 , 58, 347-348	7.1	7

79	Atomically thick Pt-Cu nanosheets: self-assembled sandwich and nanoring-like structures. <i>Advanced Materials</i> , 2015 , 27, 2013-8	24	91
78	Three-dimensional architectures constructed using two-dimensional nanosheets. <i>Science China Chemistry</i> , 2015 , 58, 1792-1799	7.9	15
77	Highly flexible sub-1 nm tungsten oxide nanobelts as efficient desulfurization catalysts. <i>Small</i> , 2015 , 11, 1144-9	11	55
76	Nanocrystals of Uranium Oxide: Controlled Synthesis and Enhanced Electrochemical Performance of Hydrogen Evolution by Ce Doping. <i>Small</i> , 2015 , 11, 2624-30	11	17
75	Three-dimensional assembly of single-layered MoS ₂ . <i>Advanced Materials</i> , 2014 , 26, 964-9	24	376
74	Self-assembly of TiO ₂ nanoparticles into chains, films and honeycomb networks. <i>CrystEngComm</i> , 2014 , 16, 1584	3.3	16
73	A 1D/2D helical CdS/ZnIn ₂ S ₄ nano-heterostructure. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2339-43	16.4	186
72	Hydroxyapatite nanocrystals: colloidal chemistry, assembly and their biological applications. <i>Inorganic Chemistry Frontiers</i> , 2014 , 1, 215-225	6.8	32
71	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
70	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
69	Well-defined metal-organic framework hollow nanocages. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 429-33	16.4	255
68	A monolayer polyoxometalate superlattice. <i>Advanced Materials</i> , 2014 , 26, 4339-44	24	30
67	Strong metal-support interaction in size-controlled monodisperse palladium-hematite nano-heterostructures during a liquid-solid heterogeneous catalysis. <i>Science China Materials</i> , 2014 , 57, 34-41	7.1	17
66	Well-Defined Metal-Organic Framework Hollow Nanocages. <i>Angewandte Chemie</i> , 2014 , 126, 439-443	3.6	57
65	Hierarchical Zn/Ni-MOF-2 Nanosheet-Assembled Hollow Nanocubes for Multicomponent Catalytic Reactions. <i>Angewandte Chemie</i> , 2014 , 126, 12725-12729	3.6	82
64	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
63	Promoting the catalytic efficiency of a catalyst by a solvothermal method. <i>RSC Advances</i> , 2013 , 3, 5819	3.7	2
62	Ultrathin nanostructures: smaller size with new phenomena. <i>Chemical Society Reviews</i> , 2013 , 42, 5577-94	8.5	130

61	Self-adjustable crystalline inorganic nanocoils. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6834-6841	7.4	50
60	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
59	Surface-specific interaction by structure-match confined pure high-energy facet of unstable TiO ₂ polymorph. <i>Scientific Reports</i> , 2013 , 3, 1411	4.9	44
58	Formamide: an efficient solvent to synthesize water-soluble and sub-ten-nanometer nanocrystals. <i>Nanoscale</i> , 2013 , 5, 4495-505	7.7	24
57	Ultrathin Pt-Cu nanosheets and nanocones. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18304-18311	7.4	275
56	Polyoxometalate-based supramolecular gel. <i>Scientific Reports</i> , 2013 , 3, 1833	4.9	35
55	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
54	Crystal growth by leaps and bounds based on self-assembly: insight from titania. <i>CrystEngComm</i> , 2012 , 14, 7648	3.3	7
53	Shape control of Pd-based nanocrystals via quasi-solid-state reactions. <i>RSC Advances</i> , 2012 , 2, 3204	3.7	3
52	Surfactant-encapsulated polyoxometalate building blocks: controlled assembly and their catalytic properties. <i>Dalton Transactions</i> , 2012 , 41, 9832-45	4.3	83
51	Ultrathin Ca-PO ₄ -CO ₃ solid-solution nanowires: a controllable synthesis and full-color emission by rare-earth doping. <i>Chemistry - A European Journal</i> , 2012 , 18, 13702-11	4.8	19
50	From cluster assembly to ultrathin nanocrystals and complex nanostructures. <i>Science China Chemistry</i> , 2012 , 55, 2257-2271	7.9	11
49	MnO ₂ nanowires as building blocks for the construction of 3D macro-assemblies. <i>Chemical Communications</i> , 2012 , 48, 5925-7	5.8	28
48	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
47	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
46	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
45	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
44	Construction of amphiphilic polyoxometalate mesostructures as a highly efficient desulfurization catalyst. <i>Advanced Materials</i> , 2011 , 23, 1130-5	24	126

43	Polyoxometalate Nanocone Nanoreactors: Magnetic Manipulation and Enhanced Catalytic Performance. <i>Angewandte Chemie</i> , 2011 , 123, 3245-3250	3.6	31
42	Polyoxometalate nanocone nanoreactors: magnetic manipulation and enhanced catalytic performance. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3187-92	16.4	112
41	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
40	Assembling Polyoxometalate Clusters into Advanced Nanoarchitectures. <i>Chemistry of Materials</i> , 2010 , 22, 3511-3518	9.6	60
39	Pd-Pt random alloy nanocubes with tunable compositions and their enhanced electrocatalytic activities. <i>Chemical Communications</i> , 2010 , 46, 1491-3	5.8	125
38	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
37	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
36	Noble Metal Nanocrystal-Incorporated Fullerene-Like Polyoxometalate Based Microspheres. <i>Advanced Functional Materials</i> , 2009 , 19, 860-865	15.6	31
35	Fine tuning of the sizes and phases of ZrO ₂ nanocrystals. <i>Nano Research</i> , 2009 , 2, 891-902	10	62
34	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
33	Cluster-Based Self-Assembly: Reversible Formation of Polyoxometalate Nanocones and Nanotubes. <i>Chemistry of Materials</i> , 2009 , 21, 3745-3751	9.6	75
32	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
31	Combinatorial two-dimensional architectures from nanocrystal building blocks: controlled assembly and their applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3572		8
30	Covalent-like interactions between artificial atoms inside silver supercrystals. <i>Inorganic Chemistry</i> , 2008 , 47, 543-7	5.1	6
29	Combinatorial Hierarchically Ordered 2D Architectures Self-assembled from Nanocrystal Building Blocks. <i>Advanced Materials</i> , 2008 , 20, 3702-3708	24	30
28	Multi-functionalized Inorganic/Organic Rare Earth Hybrid Microcapsules. <i>Advanced Materials</i> , 2008 , 20, 3739-3744	24	41
27	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
26	Interface-mediated growth of monodispersed nanostructures. <i>Accounts of Chemical Research</i> , 2007 , 40, 635-43	24.3	146

25	Tetrahedral Colloidal Crystals of Ag ₂ S Nanocrystals. <i>Angewandte Chemie</i> , 2007 , 119, 8322-8325	3.6	15
24	A Versatile Bottom-up Assembly Approach to Colloidal Spheres from Nanocrystals. <i>Angewandte Chemie</i> , 2007 , 119, 6770-6773	3.6	43
23	Monodisperse nanocrystals: general synthesis, assembly, and their applications. <i>Chemical Communications</i> , 2007 , 2901-10	5.8	163
22	Synthesis and characterization of sulfide and selenide colloidal semiconductor nanocrystals. <i>Langmuir</i> , 2006 , 22, 7364-8	4	31
21	Synthesis and Characterization of Ternary NH ₄ Ln ₂ F ₇ (Ln = Y, Ho, Er, Tm, Yb, Lu) Nanocages. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 2186-2191	2.3	19
20	Hydrothermal synthesis of rare-earth fluoride nanocrystals. <i>Inorganic Chemistry</i> , 2006 , 45, 6661-5	5.1	298
19	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
18	Solution-based synthetic strategies for 1-D nanostructures. <i>Inorganic Chemistry</i> , 2006 , 45, 7522-34	5.1	161
17	Solution-based routes to transition-metal oxide one-dimensional nanostructures. <i>Pure and Applied Chemistry</i> , 2006 , 78, 45-64	2.1	35
16	A general strategy for nanocrystal synthesis. <i>Nature</i> , 2005 , 437, 121-4	50.4	2257
15	Fluorescence Resonant Energy Transfer Biosensor Based on Upconversion-Luminescent Nanoparticles. <i>Angewandte Chemie</i> , 2005 , 117, 6208-6211	3.6	88
14	Thermally stable silicate nanotubes. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2017-20	16.4	107
13	Thermally Stable Silicate Nanotubes. <i>Angewandte Chemie</i> , 2004 , 116, 2051-2054	3.6	28
12	Fullerene-Like Rare-Earth Nanoparticles. <i>Angewandte Chemie</i> , 2003 , 115, 3621-3624	3.6	10
11	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
10	Fullerene-like rare-Earth nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3497-500	16.4	128
9	Synthesis and characterization of lanthanide hydroxide single-crystal nanowires. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4790-3	16.4	413
8	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

7	Rational synthesis of alpha-MnO ₂ single-crystal nanorods. <i>Chemical Communications</i> , 2002 , 764-5	5.8	205
6	Polyoxometalate-based materials: quasi-homogeneous single-atom catalysts with atomic-precision structures. <i>Journal of Materials Chemistry A</i> ,	13	0
5	Super-Hybrid Transition Metal Sulfide Nanoarrays of Co ₃ S ₄ Nanosheet/P-Doped WS ₂ Nanosheet/Co ₉ S ₈ Nanoparticle with Pt-Like Activities for Robust All-pH Hydrogen Evolution. <i>Advanced Functional Materials</i> ,2112362	15.6	4
4	Super-aligned films of sub-1 nm Bi ₂ O ₃ -polyoxometalate nanowires as interlayers in lithium-sulfur batteries. <i>Science China Materials</i> ,1	7.1	6
3	Tempering force with mercy: An innovative peri-implant ligament with combined osteointegration and energy-dissipation. <i>Nano Research</i> ,1	10	
2	Architecting Hybrid Donor-Acceptor Dendritic Nanosheets Based on Polyoxometalate and Porphyrin for High-Yield Solar Water Purification. <i>Advanced Functional Materials</i> ,2112159	15.6	3
1	Functionally Guided Precise Synthesis of Manganous Oxide-Polyoxometalate 2D Hybrid Sub-1 nm Nanosheet Superstructures. <i>Small Structures</i> ,2200039	8.7	1