

# Yong 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.

207 papers	12,269 citations	53 h-index	106 g-index
217 ext. papers	14,357 ext. citations	9 avg, IF	6.31 L-index

#	Paper	IF	Citations
207	Thermally stable single-atom platinum-on-ceria catalysts via atom trapping. <i>Science</i> , <b>2016</b> , 353, 150-4	33.3	1065
206	Activation of surface lattice oxygen in single-atom Pt/CeO for low-temperature CO oxidation. <i>Science</i> , <b>2017</b> , 358, 1419-1423	33.3	740
205	Switching of perpendicular magnetization by spin-orbit torques in the absence of external magnetic fields. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 548-54	28.7	569
204	Enhanced activity and stability of Pt catalysts on functionalized graphene sheets for electrocatalytic oxygen reduction. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 954-957	5.1	562
203	Manipulating surface states in topological insulator nanoribbons. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 216-218	21.7	352
202	Molybdenum-Carbide-Modified Nitrogen-Doped Carbon Vesicle Encapsulating Nickel Nanoparticles: A Highly Efficient, Low-Cost Catalyst for Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15753-9	16.4	350
201	Scale-invariant quantum anomalous Hall effect in magnetic topological insulators beyond the two-dimensional limit. <i>Physical Review Letters</i> , <b>2014</b> , 113, 137201	7.4	348
200	High Catalytic Activity and Chemoselectivity of Sub-nanometric Pd Clusters on Porous Nanorods of CeO <sub>2</sub> for Hydrogenation of Nitroarenes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 2629-37	16.4	291
199	Highly uniform Ru nanoparticles over N-doped carbon: pH and temperature-universal hydrogen release from water reduction. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 800-806	35.4	286
198	Metal/Porous Carbon Composites for Heterogeneous Catalysis: Old Catalysts with Improved Performance Promoted by N-Doping. <i>ACS Catalysis</i> , <b>2017</b> , 7, 8090-8112	13.1	265
197	Graphene flash memory. <i>ACS Nano</i> , <b>2011</b> , 5, 7812-7	16.7	204
196	Novel boron nitride hollow nanoribbons. <i>ACS Nano</i> , <b>2008</b> , 2, 2183-91	16.7	173
195	Controlled synthesis of single-crystal SnSe nanoplates. <i>Nano Research</i> , <b>2015</b> , 8, 288-295	10	170
194	Electric-field control of spin-orbit torque in a magnetically doped topological insulator. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 352-9	28.7	170
193	Proximity induced high-temperature magnetic order in topological insulator--ferrimagnetic insulator heterostructure. <i>Nano Letters</i> , <b>2014</b> , 14, 3459-65	11.5	156
192	Dumbbell-Shaped Bi-component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8459-8463	16.4	152
191	Surface-dominated conduction in a 6 nm thick Bi <sub>2</sub> Se <sub>3</sub> thin film. <i>Nano Letters</i> , <b>2012</b> , 12, 1486-90	11.5	146

190	Nitrogen-Doped Porous Carbon Supported Nonprecious Metal Single-Atom Electrocatalysts: from Synthesis to Application. <i>Small Methods</i> , <b>2019</b> , 3, 1900159	12.8	137
189	Electrical detection of spin-polarized surface states conduction in (Bi(0.53)Sb(0.47)) <sub>2</sub> Te <sub>3</sub> topological insulator. <i>Nano Letters</i> , <b>2014</b> , 14, 5423-9	11.5	134
188	Stable isolated metal atoms as active sites for photocatalytic hydrogen evolution. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 2138-44	4.8	132
187	Shaped Pd-Ni-Pt core-sandwich-shell nanoparticles: influence of Ni sandwich layers on catalytic electrooxidations. <i>ACS Nano</i> , <b>2014</b> , 8, 7239-50	16.7	128
186	Electric-field-controlled ferromagnetism in high-Curie-temperature Mn <sub>0.05</sub> Ge <sub>0.95</sub> quantum dots. <i>Nature Materials</i> , <b>2010</b> , 9, 337-44	27	126
185	Anisotropic magnetotransport and exotic longitudinal linear magnetoresistance in WTe <sub>2</sub> crystals. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	124
184	Gate-controlled surface conduction in Na-doped Bi <sub>2</sub> Te <sub>3</sub> topological insulator nanoplates. <i>Nano Letters</i> , <b>2012</b> , 12, 1170-5	11.5	119
183	Epitaxial growth of Bi <sub>2</sub> Se <sub>3</sub> topological insulator thin films on Si (111). <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 103702	2.5	118
182	Rational design of sub-parts per million specific gas sensors array based on metal nanoparticles decorated nanowire enhancement-mode transistors. <i>Nano Letters</i> , <b>2013</b> , 13, 3287-92	11.5	117
181	Competing weak localization and weak antilocalization in ultrathin topological insulators. <i>Nano Letters</i> , <b>2013</b> , 13, 48-53	11.5	113
180	Na-doped p-type ZnO microwires. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2498-9	16.4	110
179	Solution-grown organic single-crystalline p-n junctions with ambipolar charge transport. <i>Advanced Materials</i> , <b>2013</b> , 25, 5762-6	24	104
178	Flame-Synthesized Ceria-Supported Copper Dimers for Preferential Oxidation of CO. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 369-377	15.6	103
177	Metal nanodot memory by self-assembled block copolymer lift-off. <i>Nano Letters</i> , <b>2010</b> , 10, 224-9	11.5	98
176	Investigating the origin of Fermi level pinning in Ge Schottky junctions using epitaxially grown ultrathin MgO films. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 102103	3.4	96
175	Nanoscale-phase-separated Pd-Rh boxes synthesized via metal migration: an archetype for studying lattice strain and composition effects in electrocatalysis. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14691-700	16.4	95
174	Interplay between different magnetisms in Cr-doped topological insulators. <i>ACS Nano</i> , <b>2013</b> , 7, 9205-12	16.7	94
173	Anisotropic Fermi Surface and Quantum Limit Transport in High Mobility Three-Dimensional Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> . <i>Physical Review X</i> , <b>2015</b> , 5,	9.1	92

172	Revelation of topological surface states in Bi <sub>2</sub> Se <sub>3</sub> thin films by in situ Al passivation. <i>ACS Nano</i> , <b>2012</b> , 6, 295-302	16.7	85
171	Real-Time Observation of Reconstruction Dynamics on TiO <sub>2</sub> (001) Surface under Oxygen via an Environmental Transmission Electron Microscope. <i>Nano Letters</i> , <b>2016</b> , 16, 132-7	11.5	84
170	Visualizing HO molecules reacting at TiO active sites with transmission electron microscopy. <i>Science</i> , <b>2020</b> , 367, 428-430	33.3	82
169	Epitaxial growth of high mobility Bi <sub>2</sub> Se <sub>3</sub> thin films on CdS. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 242102	3.4	79
168	Controllable electrical properties of metal-doped In <sub>2</sub> O <sub>3</sub> nanowires for high-performance enhancement-mode transistors. <i>ACS Nano</i> , <b>2013</b> , 7, 804-10	16.7	76
167	Sulfur vacancy-rich MoS <sub>2</sub> as a catalyst for the hydrogenation of CO <sub>2</sub> to methanol. <i>Nature Catalysis</i> , <b>2021</b> , 4, 242-250	36.5	76
166	Broadly defining lasing wavelengths in single bandgap-graded semiconductor nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 3153-9	11.5	74
165	Structure and Field-Emission Properties of Sub-Micrometer-Sized Tungsten-Whisker Arrays Fabricated by Vapor Deposition. <i>Advanced Materials</i> , <b>2009</b> , 21, 2387-2392	24	70
164	Magnetically doped semiconducting topological insulators. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 063912	12.5	69
163	Manipulating surface-related ferromagnetism in modulation-doped topological insulators. <i>Nano Letters</i> , <b>2013</b> , 13, 4587-93	11.5	66
162	Characteristics of silicon substrates fabricated using nanogrinding and chemo-mechanical-grinding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 479, 373-379	5.3	65
161	In Situ Observation of Hydrogen-Induced Surface Faceting for Palladium-Copper Nanocrystals at Atmospheric Pressure. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12427-30	16.4	62
160	Defect-free zinc-blende structured InAs nanowires catalyzed by palladium. <i>Nano Letters</i> , <b>2012</b> , 12, 5744-9	11.5	58
159	In situ manipulation of the active Au-TiO interface with atomic precision during CO oxidation. <i>Science</i> , <b>2021</b> , 371, 517-521	33.3	56
158	Demonstration of surface transport in a hybrid Bi <sub>2</sub> Se <sub>3</sub> /Bi <sub>2</sub> Te <sub>3</sub> heterostructure. <i>Scientific Reports</i> , <b>2013</b> , 3, 3060	4.9	55
157	Direct In Situ TEM Visualization and Insight into the Facet-Dependent Sintering Behaviors of Gold on TiO. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16827-16831	16.4	55
156	Discovery of tip induced unconventional superconductivity on Weyl semimetal. <i>Science Bulletin</i> , <b>2017</b> , 62, 425-430	10.6	54
155	Direct structural evidences of Mn <sub>11</sub> Ge <sub>8</sub> and Mn <sub>5</sub> Ge <sub>2</sub> clusters in Ge <sub>0.96</sub> Mn <sub>0.04</sub> thin films. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 101913	3.4	53

154	Topological Insulator Film Growth by Molecular Beam Epitaxy: A Review. <i>Crystals</i> , <b>2016</b> , 6, 154	2.3	53
153	Wafer-Scale Growth of Single-Crystal 2D Semiconductor on Perovskite Oxides for High-Performance Transistors. <i>Nano Letters</i> , <b>2019</b> , 19, 2148-2153	11.5	52
152	Controlled growth of Zn-polar ZnO epitaxial film by nitridation of sapphire substrate. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 112111	3.4	51
151	Reconstruction of Supported Metal Nanoparticles in Reaction Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6464-6469	16.4	50
150	Growth of In <sub>2</sub> O <sub>3</sub> single-crystalline film on sapphire (0 0 0 1) substrate by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , <b>2006</b> , 289, 686-689	1.6	50
149	Functionalizing single crystals: incorporation of nanoparticles inside gel-grown calcite crystals. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 4127-31	16.4	49
148	High-performance hydrogen evolution electrocatalysis by layer-controlled MoS <sub>2</sub> nanosheets. <i>RSC Advances</i> , <b>2014</b> , 4, 34733-34738	3.7	48
147	Direct atom-by-atom chemical identification of nanostructures and defects of topological insulators. <i>Nano Letters</i> , <b>2013</b> , 13, 2851-6	11.5	48
146	Atomic-Scale Magnetism of Cr-Doped Bi <sub>2</sub> Se <sub>3</sub> Thin Film Topological Insulators. <i>ACS Nano</i> , <b>2015</b> , 9, 10237-10247	13.7	46
145	Evolution of epitaxial InAs nanowires on GaAs 111B. <i>Small</i> , <b>2009</b> , 5, 366-9	11	45
144	Chiral anomaly and ultrahigh mobility in crystalline HfTe <sub>5</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	43
143	Fabricating Metal@N-Doped Carbon Catalysts via a Thermal Method. <i>ACS Catalysis</i> , <b>2018</b> , 8, 7077-7085	13.1	43
142	Reversible insulator-metal transition of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface for nonvolatile memory. <i>Scientific Reports</i> , <b>2013</b> , 3, 2870	4.9	43
141	Lattice distortion oriented angular self-assembly of monolayer titania sheets. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 695-7	16.4	43
140	Low-temperature interface engineering for high-quality ZnO epitaxy on Si(111) substrate. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 151912	3.4	43
139	Oxide Catalysts with Ultrastrong Resistance to SO Deactivation for Removing Nitric Oxide at Low Temperature. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903719	24	42
138	Recent advances in gas-involved in situ studies via transmission electron microscopy. <i>Nano Research</i> , <b>2018</b> , 11, 42-67	10	40
137	Separation of top and bottom surface conduction in Bi <sub>2</sub> Te <sub>3</sub> thin films. <i>Nanotechnology</i> , <b>2013</b> , 24, 015705	3.4	40

136	In situ TEM studies of the shape evolution of Pd nanocrystals under oxygen and hydrogen environments at atmospheric pressure. <i>Chemical Communications</i> , <b>2017</b> , 53, 13213-13216	5.8	40
135	Antiphotocorrosive photocatalysts containing CdS nanoparticles and exfoliated TiO <sub>2</sub> nanosheets. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 182-188	2.5	40
134	The synergic effects at the molecular level in CoS <sub>2</sub> for selective hydrogenation of nitroarenes. <i>Green Chemistry</i> , <b>2018</b> , 20, 671-679	10	39
133	Crossover from 3D to 2D quantum transport in Bi <sub>2</sub> Se <sub>3</sub> /In <sub>2</sub> Se <sub>3</sub> superlattices. <i>Nano Letters</i> , <b>2014</b> , 14, 5244-5251	1.5	39
132	PdZn intermetallic on a CN@ZnO hybrid as an efficient catalyst for the semihydrogenation of alkynols. <i>Journal of Catalysis</i> , <b>2017</b> , 350, 13-20	7.3	38
131	Microstructure, ferromagnetism, and magnetic transport of Ti <sub>1-x</sub> Co <sub>x</sub> O <sub>2</sub> amorphous magnetic semiconductor. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 123903	2.5	38
130	Nanoparticles Incorporated inside Single-Crystals: Enhanced Fluorescent Properties. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7537-7543	9.6	38
129	Cubic nitridation layers on sapphire substrate and their role in polarity selection of ZnO films. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 051901	3.4	37
128	Efficient hydrogenation of stearic acid over carbon coated NiFe catalyst. <i>Journal of Catalysis</i> , <b>2018</b> , 367, 139-149	7.3	36
127	Adsorption of phenol on Fe (110) and Pd (111) from first principles. <i>Surface Science</i> , <b>2014</b> , 630, 244-253	1.8	35
126	Redispersion of Mo-Based Catalysts and the Rational Design of Super Small-Sized Metallic Mo Species. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5302-5307	13.1	34
125	Evidence of the two surface states of (Bi <sub>0.53</sub> Sb <sub>0.47</sub> ) <sub>2</sub> Te <sub>3</sub> films grown by van der Waals epitaxy. <i>Scientific Reports</i> , <b>2013</b> , 3, 3406	4.9	34
124	Mn-rich clusters in GeMn magnetic semiconductors: Structural evolution and magnetic property. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 508, 273-277	5.7	34
123	Controlled growth of O-polar ZnO epitaxial film by oxygen radical preconditioning of sapphire substrate. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 7108-7111	2.5	34
122	A formation mechanism of oxygen vacancies in a MnO <sub>2</sub> monolayer: a DFT + U study. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 11325-8	3.6	33
121	Facile synthesis of Ru-decorated Pt cubes and icosahedra as highly active electrocatalysts for methanol oxidation. <i>Nanoscale</i> , <b>2016</b> , 8, 12812-8	7.7	32
120	RuO <sub>2</sub> /rutile-TiO <sub>2</sub> : a superior catalyst for N <sub>2</sub> O decomposition. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5178-5181	13	32
119	Room-temperature electric-field controlled ferromagnetism in Mn <sub>0.05</sub> Ge <sub>0.95</sub> quantum dots. <i>ACS Nano</i> , <b>2010</b> , 4, 4948-54	16.7	32

118	High-Density, Defect-Free, and Taper-Restrained Epitaxial GaAs Nanowires Induced from Annealed Au Thin Films. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 2018-2022	3.5	31
117	Vertical/Planar Growth and Surface Orientation of Bi <sub>2</sub> Te <sub>3</sub> and Bi <sub>2</sub> Se <sub>3</sub> Topological Insulator Nanoplates. <i>Nano Letters</i> , <b>2015</b> , 15, 3147-52	11.5	30
116	Superconductivity in topologically nontrivial material Au <sub>2</sub> Pb. <i>Npj Quantum Materials</i> , <b>2016</b> , 1,	5	30
115	Formation mechanism of nanocrystalline high-pressure phases in silicon during nanogrinding. <i>Nanotechnology</i> , <b>2007</b> , 18, 465705	3.4	30
114	Recent Progresses on Structural Reconstruction of Nanosized Metal Catalysts via Controlled-Atmosphere Transmission Electron Microscopy: A Review. <i>ACS Catalysis</i> , <b>2020</b> , 10, 14419-14450	13.1	30
113	In Situ STEM Determination of the Atomic Structure and Reconstruction Mechanism of the TiO <sub>2</sub> (001) (1 × 4) Surface. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3189-3194	9.6	29
112	Atomic-Scale Observation of Vapor-Solid Nanowire Growth via Oscillatory Mass Transport. <i>ACS Nano</i> , <b>2016</b> , 10, 763-9	16.7	29
111	High Curie temperature Bi(1.85)Mn(0.15)Te <sub>3</sub> nanoplates. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18920-3	16.4	29
110	Effect of sapphire substrate nitridation on the elimination of rotation domains in ZnO epitaxial films. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, 3058-3062	3	29
109	Controllable in Situ Surface Restructuring of Cu Catalysts and Remarkable Enhancement of Their Catalytic Activity. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2213-2221	13.1	28
108	Reshaping of Metal Nanoparticles Under Reaction Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2171-2180	16.4	27
107	Oscillatory tunnel magnetoresistance in double barrier magnetic tunnel junctions. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	26
106	Low-Temperature Methane Oxidation for Efficient Emission Control in Natural Gas Vehicles: Pd and Beyond. <i>ACS Catalysis</i> , <b>2020</b> , 10, 14304-14314	13.1	26
105	Magnetic and microstructural characterizations of CoFe and CoFeB nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 1512-1516	2.8	25
104	A Rational Solid-State Synthesis of Supported Au-Ni Bimetallic Nanoparticles with Enhanced Activity for Gas-Phase Selective Oxidation of Alcohols. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 31853-31860	9.5	24
103	Growth of single-crystalline, atomically smooth MgO films on Ge(001) by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , <b>2009</b> , 312, 44-47	1.6	24
102	MnGe magnetic nanocolumns and nanowells. <i>Nanotechnology</i> , <b>2010</b> , 21, 255602	3.4	24
101	Determination of the polarity of ZnO thin films by electron energy-loss spectroscopy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2004</b> , 320, 322-326	2.3	24



100	Oxygen vacancy induced structural variations of exfoliated monolayer MnO <sub>2</sub> sheets. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	23
99	Effects of annealing and substrate orientation on epitaxial growth of GaAs on Si. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 083514	2.5	23
98	Temperature-dependent Mn-diffusion modes in CoFeB- and CoFe-based magnetic tunnel junctions: Electron-microscopy studies. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	23
97	Fast Gas-Solid Reaction Kinetics of Nanoparticles Unveiled by Millisecond In Situ Electron Diffraction at Ambient Pressure. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11344-11348	16.4	21
96	Polarity determination of ZnO thin films by electron holography. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2067-2069	3.4	21
95	Quantum capacitance in topological insulators. <i>Scientific Reports</i> , <b>2012</b> , 2, 669	4.9	20
94	Vertically standing Ge nanowires on GaAs(110) substrates. <i>Nanotechnology</i> , <b>2008</b> , 19, 125602	3.4	20
93	In Situ Observation of Hydrogen-Induced Surface Faceting for Palladium-Copper Nanocrystals at Atmospheric Pressure. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12615-12618	3.6	20
92	Unexpected refacetting of palladium nanoparticles under atmospheric N conditions. <i>Chemical Communications</i> , <b>2018</b> , 54, 8587-8590	5.8	20
91	Growth of high-quality Bi <sub>2</sub> Se <sub>3</sub> topological insulators using (Bi <sub>1-x</sub> In <sub>x</sub> ) <sub>2</sub> Se <sub>3</sub> buffer layers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2018</b> , 36, 02D101	1.3	19
90	Direct observation of Pt nanocrystal coalescence induced by electron-excitation-enhanced van der Waals interactions. <i>Nano Research</i> , <b>2014</b> , 7, 308-314	10	19
89	Elucidation of Active Sites for CH <sub>4</sub> Catalytic Oxidation over Pd/CeO <sub>2</sub> Via Tailoring Metal-Support Interactions. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5666-5677	13.1	19
88	Highly effective Ir-based catalysts for benzoic acid hydrogenation: experiment- and theory-guided catalyst rational design. <i>Green Chemistry</i> , <b>2017</b> , 19, 1766-1774	10	18
87	Direct atomic identification of cation migration induced gradual cubic-to-hexagonal phase transition in Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> . <i>Communications Chemistry</i> , <b>2019</b> , 2,	6.3	18
86	Reconstruction of Supported Metal Nanoparticles in Reaction Conditions. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 6574-6579	3.6	18
85	PdPt nanoalloy transformation pathways at the atomic scale. <i>Materials Today Nano</i> , <b>2018</b> , 1, 41-46	9.7	18
84	Probing spin-flip scattering in ballistic nanosystems. <i>Physical Review Letters</i> , <b>2006</b> , 97, 106605	7.4	18
83	Study of the role of alkaline sodium additive in selective hydrogenation of phenol. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 1516-1524	11.3	17



82	Recent advances in the synthesis and applications of anisotropic carbon and silica-based nanoparticles. <i>Nano Research</i> , <b>2019</b> , 12, 1267-1278	10	17
81	Thermal stability of Mg 2 Si epitaxial film formed on Si (111) substrate by solid phase reaction. <i>Chinese Physics B</i> , <b>2009</b> , 18, 3079-3083	1.2	17
80	Mn behaviors in Mn-implanted ZnO. <i>Acta Materialia</i> , <b>2009</b> , 57, 2291-2299	8.4	17
79	Nanoscale Behavior and Manipulation of the Phase Transition in Single-Crystal Cu Se. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804919	24	17
78	Epitaxial Growth of Ternary Topological Insulator Bi Te Se 2D Crystals on Mica. <i>Small</i> , <b>2017</b> , 13, 1603572	11	16
77	Single-Facet Dominant Anatase TiO <sub>2</sub> (101) and (001) Model Catalysts to Elucidate the Active Sites for Alkanol Dehydration. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4268-4279	13.1	16
76	Catalytic growth of metallic tungsten whiskers based on the vapor-solid-solid mechanism. <i>Nanotechnology</i> , <b>2008</b> , 19, 345604	3.4	16
75	Surface superconductivity in the type II Weyl semimetal TaIrTe. <i>National Science Review</i> , <b>2020</b> , 7, 579-587	10.8	16
74	Coherent magnetic semiconductor nanodot arrays. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 134	5	15
73	Promotion of catalytic selectivity on transition metal oxide through restructuring surface lattice. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 957-969	21.8	15
72	Selective Electrochemical Reduction of Nitrogen to Ammonia by Adjusting the Three-Phase Interface. <i>Research</i> , <b>2019</b> , 2019, 1401209	7.8	14
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