Yong Wang

List of Publications by Year
in descending order

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215 papers	16,396 citations	19608 61 h-index	17055 122 g-index
217 all docs	217 docs citations	217 times ranked	20163 citing authors

#	Article	IF	Citations
1	Thermally stable single-atom platinum-on-ceria catalysts via atom trapping. Science, 2016, 353, 150-154.	6.0	1,487
2	Activation of surface lattice oxygen in single-atom Pt/CeO ₂ for low-temperature CO oxidation. Science, 2017, 358, 1419-1423.	6.0	1,114
3	Switching of perpendicular magnetization by spinâ€“orbit torques in the absence of external magnetic fields. Nature Nanotechnology, 2014, 9, 548-554.	15.6	753
4	Enhanced activity and stability of Pt catalysts on functionalized graphene sheets for electrocatalytic oxygen reduction. Electrochemistry Communications, 2009, 11, 954-957.	2.3	615
5	Scale-Invariant Quantum Anomalous Hall Effect in Magnetic Topological Insulators beyond the Two-Dimensional Limit. Physical Review Letters, 2014, 113, 137201.	2.9	453
6	Molybdenum-Carbide-Modified Nitrogen-Doped Carbon Vesicle Encapsulating Nickel Nanoparticles: A Highly Efficient, Low-Cost Catalyst for Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2015, 137, 15753-15759.	6.6	415
7	Highly uniform Ru nanoparticles over N-doped carbon: pH and temperature-universal hydrogen release from water reduction. Energy and Environmental Science, 2018, 11, 800-806.	15.6	407
8	High Catalytic Activity and Chemoselectivity of Sub-nanometric Pd Clusters on Porous Nanorods of CeO₂ for Hydrogenation of Nitroarenes. Journal of the American Chemical Society, 2016, 138, 2629-2637.	6.6	387
9	Manipulating surface states in topological insulator nanoribbons. Nature Nanotechnology, 2011, 6, 216-221.	15.6	382
10	Metal/Porous Carbon Composites for Heterogeneous Catalysis: Old Catalysts with Improved Performance Promoted by N-Doping. ACS Catalysis, 2017, 7, 8090-8112.	5.5	365
11	Sulfur vacancy-rich MoS2 as a catalyst for the hydrogenation of CO2 to methanol. Nature Catalysis, 2021, 4, 242-250.	16.1	308
12	Graphene Flash Memory. ACS Nano, 2011, 5, 7812-7817.	7.3	232
13	Nitrogenâ€Doped Porous Carbon Supported Nonprecious Metal Singleâ€Atom Electrocatalysts: from Synthesis to Application. Small Methods, 2019, 3, 1900159.	4.6	218
14	Electric-field control of spinâ€“orbit torque in a magnetically doped topological insulator. Nature Nanotechnology, 2016, 11, 352-359.	15.6	212
15	Controlled synthesis of single-crystal SnSe nanoplates. Nano Research, 2015, 8, 288-295.	5.8	207
16	Dumbbellâ€Shaped Biâ€component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. Angewandte Chemie - International Edition, 2017, 56, 8459-8463.	7.2	204
17	Novel Boron Nitride Hollow Nanoribbons. ACS Nano, 2008, 2, 2183-2191.	7.3	192
18	Proximity Induced High-Temperature Magnetic Order in Topological Insulator - Ferrimagnetic Insulator Heterostructure. Nano Letters, 2014, 14, 3459-3465.	4.5	192

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19	Stable Isolated Metal Atoms as Active Sites for Photocatalytic Hydrogen Evolution. Chemistry - A European Journal, 2014, 20, 2138-2144.	1.7	173
20	In situ manipulation of the active Au-TiO ₂ interface with atomic precision during CO oxidation. Science, 2021, 371, 517-521.	6.0	165
21	Surface-Dominated Conduction in a 6 nm thick Bi₂Se₃ Thin Film. Nano Letters, 2012, 12, 1486-1490.	4.5	162
22	Anisotropic magnetotransport and exotic longitudinal linear magnetoresistance inWTe2crystals. Physical Review B, 2015, 92, .	1.1	156
23	Electrical Detection of Spin-Polarized Surface States Conduction in (Bi_{0.53}Sb_{0.47})₂Te₃ Topological Insulator. Nano Letters, 2014, 14, 5423-5429.	4.5	150
24	Visualizing H ₂ O molecules reacting at TiO ₂ active sites with transmission electron microscopy. Science, 2020, 367, 428-430.	6.0	149
25	Shaped Pdâ€“Niâ€“Pt Core-Sandwich-Shell Nanoparticles: Influence of Ni Sandwich Layers on Catalytic Electrooxidations. ACS Nano, 2014, 8, 7239-7250.	7.3	143
26	Electric-field-controlled ferromagnetism in high-Curie-temperature Mn0.05Ge0.95 quantumÂdots. Nature Materials, 2010, 9, 337-344.	13.3	142
27	Rational Design of Sub-Parts per Million Specific Gas Sensors Array Based on Metal Nanoparticles Decorated Nanowire Enhancement-Mode Transistors. Nano Letters, 2013, 13, 3287-3292.	4.5	132
28	Competing Weak Localization and Weak Antilocalization in Ultrathin Topological Insulators. Nano Letters, 2013, 13, 48-53.	4.5	128
29	Epitaxial growth of Bi2Se3 topological insulator thin films on Si (111). Journal of Applied Physics, 2011, 109, .	1.1	126
30	Gate-Controlled Surface Conduction in Na-Doped Bi₂Te₃ Topological Insulator Nanoplates. Nano Letters, 2012, 12, 1170-1175.	4.5	126
31	Na-Doped p-Type ZnO Microwires. Journal of the American Chemical Society, 2010, 132, 2498-2499.	6.6	122
32	Flameâ€Synthesized Ceriaâ€Supported Copper Dimers for Preferential Oxidation of CO. Advanced Functional Materials, 2009, 19, 369-377.	7.8	120
33	Anisotropic Fermi Surface and Quantum Limit Transport in High Mobility Three-Dimensional Dirac Semimetal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review X, 2015, 5, .	2.8	118
34	Metal Nanodot Memory by Self-Assembled Block Copolymer Lift-Off. Nano Letters, 2010, 10, 224-229.	4.5	114
35	Interplay between Different Magnetisms in Cr-Doped Topological Insulators. ACS Nano, 2013, 7, 9205-9212.	7.3	114
36	Nanoscale-Phase-Separated Pdâ€“Rh Boxes Synthesized via Metal Migration: An Archetype for Studying Lattice Strain and Composition Effects in Electrocatalysis. Journal of the American Chemical Society, 2013, 135, 14691-14700.	6.6	113

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37	Solutionâ€Grown Organic Singleâ€Crystalline pâ€n Junctions with Ambipolar Charge Transport. Advanced Materials, 2013, 25, 5762-5766.	11.1	112
38	Investigating the origin of Fermi level pinning in Ge Schottky junctions using epitaxially grown ultrathin MgO films. Applied Physics Letters, 2010, 96, .	1.5	111
39	Real-Time Observation of Reconstruction Dynamics on TiO₂(001) Surface under Oxygen via an Environmental Transmission Electron Microscope. Nano Letters, 2016, 16, 132-137.	4.5	109
40	Elucidation of Active Sites for CH₄ Catalytic Oxidation over Pd/CeO₂ Via Tailoring Metalâ€“Support Interactions. ACS Catalysis, 2021, 11, 5666-5677.	5.5	103
41	Revelation of Topological Surface States in Bi₂Se₃ Thin Films by In Situ Al Passivation. ACS Nano, 2012, 6, 295-302.	7.3	102
42	Low-Temperature Methane Oxidation for Efficient Emission Control in Natural Gas Vehicles: Pd and Beyond. ACS Catalysis, 2020, 10, 14304-14314.	5.5	93
43	Direct In Situ TEM Visualization and Insight into the Facetâ€Dependent Sintering Behaviors of Gold on TiO₂. Angewandte Chemie - International Edition, 2018, 57, 16827-16831.	7.2	92
44	Oxide Catalysts with Ultrastrong Resistance to SO₂ Deactivation for Removing Nitric Oxide at Low Temperature. Advanced Materials, 2019, 31, e1903719.	11.1	87
45	Epitaxial growth of high mobility Bi2Se3 thin films on CdS. Applied Physics Letters, 2011, 98, 242102.	1.5	85
46	Controllable Electrical Properties of Metal-Doped In₂O₃ Nanowires for High-Performance Enhancement-Mode Transistors. ACS Nano, 2013, 7, 804-810.	7.3	85
47	Broadly Defining Lasing Wavelengths in Single Bandgap-Graded Semiconductor Nanowires. Nano Letters, 2014, 14, 3153-3159.	4.5	84
48	Wafer-Scale Growth of Single-Crystal 2D Semiconductor on Perovskite Oxides for High-Performance Transistors. Nano Letters, 2019, 19, 2148-2153.	4.5	82
49	Inâ€…Situ Observation of Hydrogenâ€Induced Surface Faceting for Palladiumâ€“Copper Nanocrystals at Atmospheric Pressure. Angewandte Chemie - International Edition, 2016, 55, 12427-12430.	7.2	81
50	Characteristics of silicon substrates fabricated using nanogrinding and chemo-mechanical-grinding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 479, 373-379.	2.6	79
51	Structure and Fieldâ€Emission Properties of Subâ€Micrometerâ€Sized Tungstenâ€Whisker Arrays Fabricated by Vapor Deposition. Advanced Materials, 2009, 21, 2387-2392.	11.1	77
52	Manipulating Surface-Related Ferromagnetism in Modulation-Doped Topological Insulators. Nano Letters, 2013, 13, 4587-4593.	4.5	77
53	Strong Oxideâ€Support Interaction over IrO₂/V₂O₅ for Efficient pHâ€Universal Water Splitting. Advanced Science, 2022, 9, e2104636.	5.6	77
54	Magnetically doped semiconducting topological insulators. Journal of Applied Physics, 2012, 112, .	1.1	75

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55	Recent Progresses on Structural Reconstruction of Nanosized Metal Catalysts via Controlled-Atmosphere Transmission Electron Microscopy: A Review. ACS Catalysis, 2020, 10, 14419-14450.	5.5	71
56	Topological Insulator Film Growth by Molecular Beam Epitaxy: A Review. Crystals, 2016, 6, 154.	1.0	70
57	Functionalizing Single Crystals: Incorporation of Nanoparticles Inside Gelâ€Grown Calcite Crystals. Angewandte Chemie - International Edition, 2014, 53, 4127-4131.	7.2	69
58	Discovery of tip induced unconventional superconductivity on Weyl semimetal. Science Bulletin, 2017, 62, 425-430.	4.3	68
59	Reconstruction of Supported Metal Nanoparticles in Reaction Conditions. Angewandte Chemie - International Edition, 2018, 57, 6464-6469.	7.2	68
60	Demonstration of surface transport in a hybrid Bi2Se3/Bi2Te3 heterostructure. Scientific Reports, 2013, 3, 3060.	1.6	67
61	Efficient hydrogenation of stearic acid over carbon coated Ni Fe catalyst. Journal of Catalysis, 2018, 367, 139-149.	3.1	63
62	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. ACS Catalysis, 2020, 10, 13624-13629.	5.5	63
63	Defect-Free <110> Zinc-Blende Structured InAs Nanowires Catalyzed by Palladium. Nano Letters, 2012, 12, 5744-5749.	4.5	62
64	Direct structural evidences of Mn11Ge8 and Mn5Ge2 clusters in Ge0.96Mn0.04 thin films. Applied Physics Letters, 2008, 92, .	1.5	61
65	Facetâ€Dependent Oxidative Strong Metalâ€Support Interactions of Palladiumâ€“TiO₂ Determined by In Situ Transmission Electron Microscopy. Angewandte Chemie - International Edition, 2021, 60, 22339-22344.	7.2	60
66	High-performance hydrogen evolution electrocatalysis by layer-controlled MoS₂ nanosheets. RSC Advances, 2014, 4, 34733-34738.	1.7	58
67	Controlled growth of Zn-polar ZnO epitaxial film by nitridation of sapphire substrate. Applied Physics Letters, 2005, 86, 112111.	1.5	56
68	Atomic-Scale Magnetism of Cr-Doped Bi₂Se₃ Thin Film Topological Insulators. ACS Nano, 2015, 9, 10237-10243.	7.3	54
69	The synergic effects at the molecular level in CoS₂ for selective hydrogenation of nitroarenes. Green Chemistry, 2018, 20, 671-679.	4.6	54
70	Growth of In2O3 single-crystalline film on sapphire (0001) substrate by molecular beam epitaxy. Journal of Crystal Growth, 2006, 289, 686-689.	0.7	53
71	Direct Atom-by-Atom Chemical Identification of Nanostructures and Defects of Topological Insulators. Nano Letters, 2013, 13, 2851-2856.	4.5	53
72	Chiral anomaly and ultrahigh mobility in crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>HfT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	1.1	53

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73	In situTEM studies of the shape evolution of Pd nanocrystals under oxygen and hydrogen environments at atmospheric pressure. Chemical Communications, 2017, 53, 13213-13216.	2.2	53
74	Fabricating Metal@N-Doped Carbon Catalysts via a Thermal Method. ACS Catalysis, 2018, 8, 7077-7085.	5.5	53
75	Controllable in Situ Surface Restructuring of Cu Catalysts and Remarkable Enhancement of Their Catalytic Activity. ACS Catalysis, 2019, 9, 2213-2221.	5.5	53
76	Adsorption of phenol on Fe (110) and Pd (111) from first principles. Surface Science, 2014, 630, 244-253.	0.8	52
77	Nanoparticles Incorporated inside Single-Crystals: Enhanced Fluorescent Properties. Chemistry of Materials, 2016, 28, 7537-7543.	3.2	52
78	Superconductivity in topologically nontrivial material Au2Pb. Npj Quantum Materials, 2016, 1, .	1.8	52
79	Evolution of Epitaxial InAs Nanowires on GaAs (111)B. Small, 2009, 5, 366-369.	5.2	51
80	PdZn intermetallic on a CN@ZnO hybrid as an efficient catalyst for the semihydrogenation of alkynols. Journal of Catalysis, 2017, 350, 13-20.	3.1	51
81	Recent advances in gas-involved in situ studies via transmission electron microscopy. Nano Research, 2018, 11, 42-67.	5.8	50
82	Redispersion of Mo-Based Catalysts and the Rational Design of Super Small-Sized Metallic Mo Species. ACS Catalysis, 2019, 9, 5302-5307.	5.5	50
83	Reshaping of Metal Nanoparticles Under Reaction Conditions. Angewandte Chemie - International Edition, 2020, 59, 2171-2180.	7.2	48
84	Low-temperature interface engineering for high-quality ZnO epitaxy on Si(111) substrate. Applied Physics Letters, 2007, 90, 151912.	1.5	46
85	Antiphotocorrosive photocatalysts containing CdS nanoparticles and exfoliated TiO₂ nanosheets. Journal of Materials Research, 2010, 25, 182-188.	1.2	46
86	Lattice Distortion Oriented Angular Self-Assembly of Monolayer Titania Sheets. Journal of the American Chemical Society, 2011, 133, 695-697.	6.6	46
87	Reversible insulator-metal transition of LaAlO3/SrTiO3 interface for nonvolatile memory. Scientific Reports, 2013, 3, 2870.	1.6	46
88	RuO₂/rutile-TiO₂: a superior catalyst for N₂O decomposition. Journal of Materials Chemistry A, 2014, 2, 5178-5181.	5.2	45
89	Separation of top and bottom surface conduction in Bi2Te3thin films. Nanotechnology, 2013, 24, 015705.	1.3	44
90	Crossover from 3D to 2D Quantum Transport in Bi₂Se₃/In₂Se₃ Superlattices. Nano Letters, 2014, 14, 5244-5249.	4.5	44

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91	Atomic-Scale Observation of Vaporâ€“Solid Nanowire Growth via Oscillatory Mass Transport. ACS Nano, 2016, 10, 763-769.	7.3	43
92	Grafting nanometer metal/oxide interface towards enhanced low-temperature acetylene semi-hydrogenation. Nature Communications, 2021, 12, 5770.	5.8	43
93	Cubic nitridation layers on sapphire substrate and their role in polarity selection of ZnO films. Applied Physics Letters, 2005, 87, 051901.	1.5	41
94	In Situ STEM Determination of the Atomic Structure and Reconstruction Mechanism of the TiO₂ (001) (1 Ã— 4) Surface. Chemistry of Materials, 2017, 29, 3189-3194.	3.2	40
95	Controlled growth of O-polar ZnO epitaxial film by oxygen radical preconditioning of sapphire substrate. Journal of Applied Physics, 2004, 96, 7108-7111.	1.1	39
96	Formation mechanism of nanocrystalline high-pressure phases in silicon during nanogrinding. Nanotechnology, 2007, 18, 465705.	1.3	39
97	Vertical/Planar Growth and Surface Orientation of Bi₂Te₃ and Bi₂Se₃ Topological Insulator Nanoplates. Nano Letters, 2015, 15, 3147-3152.	4.5	39
98	Surface superconductivity in the type II Weyl semimetal TaIrTe4. National Science Review, 2020, 7, 579-587.	4.6	39
99	Microstructure, ferromagnetism, and magnetic transport of Ti1â^'xCoxO2 amorphous magnetic semiconductor. Journal of Applied Physics, 2006, 99, 123903.	1.1	38
100	Fundamental aspects of alkyne semi-hydrogenation over heterogeneous catalysts. Nano Research, 2022, 15, 10044-10062.	5.8	38
101	A formation mechanism of oxygen vacancies in a MnO2 monolayer: a DFT + U study. Physical Chemistry Chemical Physics, 2011, 13, 11325.	1.3	37
102	Facile synthesis of Ru-decorated Pt cubes and icosahedra as highly active electrocatalysts for methanol oxidation. Nanoscale, 2016, 8, 12812-12818.	2.8	37
103	Evidence of the two surface states of (Bi0.53Sb0.47)2Te3 films grown by van der Waals epitaxy. Scientific Reports, 2013, 3, 3406.	1.6	36
104	Surface study of the reconstructed anatase TiO2 (001) surface. Progress in Natural Science: Materials International, 2021, 31, 1-13.	1.8	36
105	Mn-rich clusters in GeMn magnetic semiconductors: Structural evolution and magnetic property. Journal of Alloys and Compounds, 2010, 508, 273-277.	2.8	35
106	High-Density, Defect-Free, and Taper-Restrained Epitaxial GaAs Nanowires Induced from Annealed Au Thin Films. Crystal Growth and Design, 2012, 12, 2018-2022.	1.4	35
107	Room-Temperature Electric-Field Controlled Ferromagnetism in Mn0.05Ge0.95 Quantum Dots. ACS Nano, 2010, 4, 4948-4954.	7.3	34
108	Highly Selective Acetylene Semihydrogenation Catalyst with an Operation Window Exceeding 150 Â°C. ACS Catalysis, 2021, 11, 6073-6080.	5.5	33

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109	Effect of sapphire substrate nitridation on the elimination of rotation domains in ZnO epitaxial films. Journal Physics D: Applied Physics, 2004, 37, 3058-3062.	1.3	32
110	Direct atomic identification of cation migration induced gradual cubic-to-hexagonal phase transition in Ge2Sb2Te5. Communications Chemistry, 2019, 2, .	2.0	32
111	Single-Facet Dominant Anatase TiO₂ (101) and (001) Model Catalysts to Elucidate the Active Sites for Alkanol Dehydration. ACS Catalysis, 2020, 10, 4268-4279.	5.5	32
112	MnGe magnetic nanocolumns and nanowells. Nanotechnology, 2010, 21, 255602.	1.3	31
113	A Rational Solid-State Synthesis of Supported Auâ€“Ni Bimetallic Nanoparticles with Enhanced Activity for Gas-Phase Selective Oxidation of Alcohols. ACS Applied Materials & Interfaces, 2017, 9, 31853-31860.	4.0	31
114	Fast Gasâ€“Solid Reaction Kinetics of Nanoparticles Unveiled by Millisecond Inâ€…Situ Electron Diffraction at Ambient Pressure. Angewandte Chemie - International Edition, 2018, 57, 11344-11348.	7.2	31
115	Nanoscale Behavior and Manipulation of the Phase Transition in Singleâ€Crystal Cu₂Se. Advanced Materials, 2019, 31, e1804919.	11.1	31
116	High Curie Temperature Bi_{1.85}Mn_{0.15}Te₃ Nanoplates. Journal of the American Chemical Society, 2012, 134, 18920-18923.	6.6	30
117	Recent advances in the synthesis and applications of anisotropic carbon and silica-based nanoparticles. Nano Research, 2019, 12, 1267-1278.	5.8	30
118	Mn behavior in Ge0.96Mn0.04 magnetic thin films grown on Si. Journal of Applied Physics, 2008, 103, .	1.1	29
119	Selective Electrochemical Reduction of Nitrogen to Ammonia by Adjusting the Three-Phase Interface. Research, 2019, 2019, 1401209.	2.8	29
120	Oscillatory tunnel magnetoresistance in double barrier magnetic tunnel junctions. Physical Review B, 2005, 72, .	1.1	28
121	Effects of annealing and substrate orientation on epitaxial growth of GaAs on Si. Journal of Applied Physics, 2009, 106, .	1.1	28
122	Study of the role of alkaline sodium additive in selective hydrogenation of phenol. Chinese Journal of Catalysis, 2019, 40, 1516-1524.	6.9	28
123	Magnetic and microstructural characterizations of CoFe and CoFeB nanowires. Journal of Magnetism and Magnetic Materials, 2008, 320, 1512-1516.	1.0	27
124	Highly effective Ir-based catalysts for benzoic acid hydrogenation: experiment- and theory-guided catalyst rational design. Green Chemistry, 2017, 19, 1766-1774.	4.6	27
125	Temperature-dependent Mn-diffusion modes in CoFeB- and CoFe-based magnetic tunnel junctions: Electron-microscopy studies. Physical Review B, 2007, 75, .	1.1	26
126	Growth of single-crystalline, atomically smooth MgO films on Ge(001) by molecular beam epitaxy. Journal of Crystal Growth, 2009, 312, 44-47.	0.7	26

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127	Growth of high-quality Bi2Se3 topological insulators using (Bi1-xInx)2Se3 buffer layers. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 02D101.	0.6	26
128	Elucidation of Active Sites in Aldol Condensation of Acetone over Single-Facet Dominant Anatase TiO₂ (101) and (001) Catalysts. Jacs Au, 2021, 1, 41-52.	3.6	26
129	Quantum Capacitance in Topological Insulators. Scientific Reports, 2012, 2, 669.	1.6	25
130	Reconstruction of Supported Metal Nanoparticles in Reaction Conditions. Angewandte Chemie, 2018, 130, 6574-6579.	1.6	25
131	Determination of the polarity of ZnO thin films by electron energy-loss spectroscopy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 320, 322-326.	0.9	24
132	Oxygen vacancy induced structural variations of exfoliated monolayerMnO2sheets. Physical Review B, 2010, 81, .	1.1	24
133	Unexpected refacetting of palladium nanoparticles under atmospheric N₂ conditions. Chemical Communications, 2018, 54, 8587-8590.	2.2	24
134	Vertically standing Ge nanowires on GaAs(110) substrates. Nanotechnology, 2008, 19, 125602.	1.3	23
135	Probing Acidâ€“Base Properties of Anatase TiO₂ Nanoparticles with Dominant {001} and {101} Facets Using Methanol Chemisorption and Surface Reactions. Journal of Physical Chemistry C, 2021, 125, 3988-4000.	1.5	23
136	Coordination environment of active sites and their effect on catalytic performance of heterogeneous catalysts. Chinese Journal of Catalysis, 2022, 43, 928-955.	6.9	23
137	Direct observation of Pt nanocrystal coalescence induced by electron-excitation-enhanced van der Waals interactions. Nano Research, 2014, 7, 308-314.	5.8	22
138	Polarity determination of ZnO thin films by electron holography. Applied Physics Letters, 2004, 84, 2067-2069.	1.5	21
139	Pdâ€“Pt nanoalloy transformation pathways at the atomic scale. Materials Today Nano, 2018, 1, 41-46.	2.3	21
140	Epitaxial orientation of Mg2Si(110) thin film on Si(111) substrate. Journal of Applied Physics, 2007, 102, 126102.	1.1	20
141	Inâ€…Situ Observation of Hydrogenâ€Induced Surface Faceting for Palladiumâ€“Copper Nanocrystals at Atmospheric Pressure. Angewandte Chemie, 2016, 128, 12615-12618.	1.6	20
142	Epitaxial Growth of Ternary Topological Insulator Bi₂Te₂Se 2D Crystals on Mica. Small, 2017, 13, 1603572.	5.2	20
143	Promotion of catalytic selectivity on transition metal oxide through restructuring surface lattice. Applied Catalysis B: Environmental, 2018, 237, 957-969.	10.8	20
144	Mechanistic insight into N2O formation during NO reduction by NH3 over Pd/CeO2 catalyst in the absence of O2. Chinese Journal of Catalysis, 2019, 40, 1070-1077.	6.9	19

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145	Probing Spin-Flip Scattering in Ballistic Nanosystems. Physical Review Letters, 2006, 97, 106605.	2.9	18
146	Catalytic growth of metallic tungsten whiskers based on the vaporâ€“solidâ€“solid mechanism. Nanotechnology, 2008, 19, 345604.	1.3	18
147	Mn behaviors in Mn-implanted ZnO. Acta Materialia, 2009, 57, 2291-2299.	3.8	18
148	Unveiling the gas-dependent sintering behavior of Au-TiO2 catalysts via environmental transmission electron microscopy. Journal of Catalysis, 2020, 388, 84-90.	3.1	18
149	Thermal stability of Mg ₂ Si epitaxial film formed on Si (111) substrate by solid phase reaction. Chinese Physics B, 2009, 18, 3079-3083.	0.7	17
150	Coherent magnetic semiconductor nanodot arrays. Nanoscale Research Letters, 2011, 6, 134.	3.1	17
151	Direct In Situ TEM Visualization and Insight into the Facetâ€Dependent Sintering Behaviors of Gold on TiO₂. Angewandte Chemie, 2018, 130, 17069-17073.	1.6	17
152	In situ TEM observation of dissolution and regrowth dynamics of MoO2 nanowires under oxygen. Nano Research, 2017, 10, 397-404.	5.8	16
153	Unveiling the Atomic Structures of the Minority Surfaces of TiO₂ Nanocrystals. Chemistry of Materials, 2018, 30, 288-295.	3.2	16
154	Facetâ€Dependent Oxidative Strong Metalâ€Support Interactions of Palladiumâ€“TiO 2 Determined by In Situ Transmission Electron Microscopy. Angewandte Chemie, 2021, 133, 22513-22518.	1.6	15
155	Tadpole shaped Ge0.96Mn0.04 magnetic semiconductors grown on Si. Applied Physics Letters, 2010, 96, 051905.	1.5	14
156	Thermal stability of Ir-Mnâ•Co-Fe-Bâ•Al-Oâ•Co-Fe-B tunnel junctions. Journal of Applied Physics, 2005, 98, 113710.	1.1	13
157	Synthesis of High-Curie-Temperature Fe_{0.02}Ge_{0.98} Quantum Dots. Journal of the American Chemical Society, 2010, 132, 11425-11427.	6.6	13
158	A Study of Vertical Transport through Graphene toward Control of Quantum Tunneling. Nano Letters, 2018, 18, 682-688.	4.5	13
159	In Situ Resolving the Atomic Reconstruction of SnO₂ (110) Surface. Nano Letters, 2021, 21, 7309-7316.	4.5	13
160	Surface Oxygen Vacancies Confined by Ferroelectric Polarization for Tunable CO Oxidation Kinetics. Advanced Materials, 2022, 34, e2202072.	11.1	13
161	Magneto-optical Kerr rotation in amorphous TiO2/Co magnetic semiconductor thin films. Physica B: Condensed Matter, 2007, 388, 130-133.	1.3	12
162	Cr metal thin film memory. Journal of Applied Physics, 2011, 110, .	1.1	12

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163	Visualizing the toughening origins of gel-grown calcite single-crystal composites. Chinese Chemical Letters, 2018, 29, 1666-1670.	4.8	12
164	Surface faceting and compositional evolution of Pd@Au coreâ€“shell nanocrystals during in situ annealing. Physical Chemistry Chemical Physics, 2019, 21, 3134-3139.	1.3	12
165	Defect characteristics of ZnO film grown on sapphire with an ultrathin gallium wetting layer. Journal of Crystal Growth, 2004, 273, 100-105.	0.7	11
166	Growth of single-crystalline tungsten nanowires by an alloy-catalyzed method at 850 Â°C. Journal of Materials Research, 2008, 23, 72-77.	1.2	11
167	In situ observation of facet-dependent oxidation of graphene on platinum in an environmental TEM. Chemical Communications, 2015, 51, 350-353.	2.2	11
168	Pt_{0.61}Ni/C for High-Efficiency Cathode of Fuel Cells with Superhigh Platinum Utilization. Journal of Physical Chemistry C, 2018, 122, 14691-14697.	1.5	11
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170	Crystallographically oriented Zn nanocrystals formed in ZnO by Mn+-implantation. Applied Physics Letters, 2008, 93, 131919.	1.5	10
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