

Hong Yang

List of Publications by Year in descending order

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166
papers

20,979
citations

9756

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177
all docs

177
docs citations

177
times ranked

23276
citing authors

#	ARTICLE	IF	CITATIONS
1	Principles for characterizing the potential human health effects from exposure to nanomaterials: elements of a screening strategy. <i>Particle and Fibre Toxicology</i> , 2005, 2, 8.	2.8	1,678
2	Designer platinum nanoparticles: Control of shape, composition in alloy, nanostructure and electrocatalytic property. <i>Nano Today</i> , 2009, 4, 143-164.	6.2	1,001
3	Platinum-Based Oxygen Reduction Electrocatalysts. <i>Accounts of Chemical Research</i> , 2013, 46, 1848-1857.	7.6	900
4	Superparamagnetic Colloids: Controlled Synthesis and Niche Applications. <i>Advanced Materials</i> , 2007, 19, 33-60.	11.1	884
5	Synthesis of oriented films of mesoporous silica on mica. <i>Nature</i> , 1996, 379, 703-705.	13.7	705
6	Morphogenesis of shapes and surface patterns in mesoporous silica. <i>Nature</i> , 1997, 386, 692-695.	13.7	675
7	Synthesis and Oxygen Reduction Electrocatalytic Property of Pt-on-Pd Bimetallic Heteronanostructures. <i>Journal of the American Chemical Society</i> , 2009, 131, 7542-7543.	6.6	591
8	Free-standing and oriented mesoporous silica films grown at the air-water interface. <i>Nature</i> , 1996, 381, 589-592.	13.7	566
9	Truncated Octahedral Pt ₃ Ni Oxygen Reduction Reaction Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2010, 132, 4984-4985.	6.6	500
10	Synthesis of colloidal metal and metal alloy nanoparticles for electrochemical energy applications. <i>Chemical Society Reviews</i> , 2013, 42, 2880-2904.	18.7	499
11	Icosahedral Platinum Alloy Nanocrystals with Enhanced Electrocatalytic Activities. <i>Journal of the American Chemical Society</i> , 2012, 134, 11880-11883.	6.6	496
12	Ca ₂ Mn ₂ O ₅ as Oxygen-Deficient Perovskite Electrocatalyst for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2014, 136, 14646-14649.	6.6	445
13	Shape and Composition-Controlled Platinum Alloy Nanocrystals Using Carbon Monoxide as Reducing Agent. <i>Nano Letters</i> , 2011, 11, 798-802.	4.5	437
14	Platinum-Maghemite Core-Shell Nanoparticles Using a Sequential Synthesis. <i>Nano Letters</i> , 2003, 3, 261-264.	4.5	400
15	High-Performance Pyrochlore-Type Yttrium Ruthenate Electrocatalyst for Oxygen Evolution Reaction in Acidic Media. <i>Journal of the American Chemical Society</i> , 2017, 139, 12076-12083.	6.6	331
16	Synthesis of CoPt Nanorods in Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2005, 127, 5316-5317.	6.6	311
17	“Pulling” Nanoparticles into Water: Phase Transfer of Oleic Acid Stabilized Monodisperse Nanoparticles into Aqueous Solutions of β -Cyclodextrin. <i>Nano Letters</i> , 2003, 3, 1555-1559.	4.5	279
18	Therapeutic target database update 2016: enriched resource for bench to clinical drug target and targeted pathway information. <i>Nucleic Acids Research</i> , 2016, 44, D1069-D1074.	6.5	278

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19	Platinum-Based Electrocatalysts with Core-Shell Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2674-2676.	7.2	275
20	Synthesis of Platinum Multipods: An Induced Anisotropic Growth. <i>Nano Letters</i> , 2005, 5, 885-891.	4.5	272
21	Surface lattice-engineered bimetallic nanoparticles and their catalytic properties. <i>Chemical Society Reviews</i> , 2012, 41, 8066.	18.7	258
22	Synthesis of Silver Nanoparticles in a Continuous Flow Tubular Microreactor. <i>Nano Letters</i> , 2004, 4, 2227-2232.	4.5	250
23	Visible-Light-Driven Selective Photocatalytic Hydrogenation of Cinnamaldehyde over Au/SiC Catalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 9361-9364.	6.6	241
24	Solvent-Free Atom Transfer Radical Polymerization in the Synthesis of Fe ₂ O ₃ @Polystyrene Core-Shell Nanoparticles. <i>Nano Letters</i> , 2003, 3, 789-793.	4.5	236
25	Patterned Langmuir-Blodgett Films of Monodisperse Nanoparticles of Iron Oxide Using Soft Lithography. <i>Journal of the American Chemical Society</i> , 2003, 125, 630-631.	6.6	236
26	Synthesis of Porous Platinum Nanoparticles. <i>Small</i> , 2006, 2, 249-253.	5.2	234
27	Magnetic-Field-Assisted Electrospinning of Aligned Straight and Wavy Polymeric Nanofibers. <i>Advanced Materials</i> , 2010, 22, 2454-2457.	11.1	214
28	Epitaxial Growth of Twinned Au-Pt Core-Shell Star-Shaped Decahedra as Highly Durable Electrocatalysts. <i>Nano Letters</i> , 2015, 15, 7808-7815.	4.5	195
29	Direct Synthesis of Narrowly Dispersed Silver Nanoparticles Using a Single-Source Precursor. <i>Langmuir</i> , 2003, 19, 10081-10085.	1.6	188
30	Effects of surfactants and synthetic conditions on the sizes and self-assembly of monodisperse iron oxide nanoparticles. Electronic supplementary information (ESI) available: XRD data of iron oxide nanoparticles, Fig. S1 and S2. See http://www.rsc.org/suppdata/jm/b3/b311610g/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 774.	6.7	181
31	Growing Pt Nanowires as a Densely Packed Array on Metal Gauze. <i>Journal of the American Chemical Society</i> , 2007, 129, 10634-10635.	6.6	181
32	Synthesis of mesoporous silica spheres under quiescent aqueous acidic conditions. <i>Journal of Materials Chemistry</i> , 1998, 8, 743-750.	6.7	175
33	Synthesis of Face-Centered Tetragonal FePt Nanoparticles and Granular Films from Pt@Fe ₂ O ₃ Core-Shell Nanoparticles. <i>Journal of the American Chemical Society</i> , 2003, 125, 14559-14563.	6.6	173
34	Synthesis and Characterization of Ordered Intermetallic PtPb Nanorods. <i>Journal of the American Chemical Society</i> , 2007, 129, 8684-8685.	6.6	160
35	Highly Uniform Platinum Icosahedra Made by Hot Injection-Assisted GRAILS Method. <i>Nano Letters</i> , 2013, 13, 2870-2874.	4.5	156
36	Synthesis and Oxygen Reduction Electrocatalytic Property of Platinum Hollow and Platinum-on-Silver Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 1098-1106.	3.2	149

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37	The Role of Defects in the Formation of Mesoporous Silica Fibers, Films, and Curved Shapes. <i>Advanced Materials</i> , 1998, 10, 883-887.	11.1	144
38	Nanoparticles for Catalysis. <i>Accounts of Chemical Research</i> , 2013, 46, 1671-1672.	7.6	144
39	Fabrication of Ordered Two-Dimensional Arrays of Micro- and Nanoparticles Using Patterned Self-Assembled Monolayers as Templates. <i>Advanced Materials</i> , 1999, 11, 1433-1437.	11.1	143
40	Composition-Dependent Formation of Platinum Silver Nanowires. <i>ACS Nano</i> , 2010, 4, 1501-1510.	7.3	141
41	Effects of Surface Chemistry on the Generation of Reactive Oxygen Species by Copper Nanoparticles. <i>ACS Nano</i> , 2012, 6, 2157-2164.	7.3	138
42	Roles of Twin Defects in the Formation of Platinum Multipod Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14312-14319.	1.5	136
43	Electrochemical Synthesis and Catalytic Property of Sub-10 nm Platinum Cubic Nanoboxes. <i>Nano Letters</i> , 2010, 10, 1492-1496.	4.5	129
44	PtAu bimetallic heteronanostructures made by post-synthesis modification of Pt-on-Au nanoparticles. <i>Nano Research</i> , 2009, 2, 406-415.	5.8	128
45	Integrated biochemical and mechanical signals regulate multifaceted human embryonic stem cell functions. <i>Journal of Cell Biology</i> , 2010, 191, 631-644.	2.3	126
46	Three-Dimensional PtRu Nanostructures. <i>Chemistry of Materials</i> , 2007, 19, 36-41.	3.2	123
47	Hanoi Tower-like Multilayered Ultrathin Palladium Nanosheets. <i>Nano Letters</i> , 2014, 14, 7188-7194.	4.5	122
48	Fabrication of High Performance Ceramic Microstructures from a Polymeric Precursor Using Soft Lithography. <i>Advanced Materials</i> , 2001, 13, 54-58.	11.1	121
49	A Porous Pyrochlore $\text{Y}_{2-x}\text{[Ru}_{1.6-x}\text{Y}_{0.4}]_2\text{O}_7$ Electro-catalyst for Enhanced Performance towards the Oxygen Evolution Reaction in Acidic Media. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13877-13881.	7.2	116
50	Registered growth of mesoporous silica films on graphite. <i>Journal of Materials Chemistry</i> , 1997, 7, 1285-1290.	6.7	110
51	Shell mimetics. <i>Advanced Materials</i> , 1997, 9, 662-667.	11.1	110
52	Electrocatalytic Properties of Pt Nanowires Supported on Pt and W Gauzes. <i>ACS Nano</i> , 2008, 2, 2167-2173.	7.3	110
53	An Electrochemical Approach to PtAg Alloy Nanostructures Rich in Pt at the Surface. <i>Advanced Functional Materials</i> , 2010, 20, 3734-3741.	7.8	110
54	Preparation of Nonprecious Metal Electrocatalysts for the Reduction of Oxygen Using a Low-Temperature Sacrificial Metal. <i>Journal of the American Chemical Society</i> , 2020, 142, 5477-5481.	6.6	110

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55	Growth of Au on Pt Icosahedral Nanoparticles Revealed by Low-Dose In Situ TEM. <i>Nano Letters</i> , 2015, 15, 2711-2715.	4.5	106
56	Mesoporous silica with micrometer-scale designs. <i>Advanced Materials</i> , 1997, 9, 811-814.	11.1	97
57	Direct Oxidation of Methanol on Pt Nanostructures Supported on Electrospun Nanofibers of Anatase. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9970-9975.	1.5	97
58	Testing Nanomaterials of Unknown Toxicity: An Example Based on Platinum Nanoparticles of Different Shapes. <i>Advanced Materials</i> , 2007, 19, 3124-3129.	11.1	96
59	Oleic acid as the capping agent in the synthesis of noble metal nanoparticles in imidazolium-based ionic liquids. <i>Chemical Communications</i> , 2006, , 2545.	2.2	95
60	Pt@Nb-TiO ₂ Catalyst Membranes Fabricated by Electrospinning and Atomic Layer Deposition. <i>ACS Catalysis</i> , 2014, 4, 144-151.	5.5	89
61	Photoluminescent Silicon Clusters in Oriented Hexagonal Mesoporous Silica Film. <i>Advanced Materials</i> , 1999, 11, 474-480.	11.1	88
62	Higher-Order Nanostructures of Two-Dimensional Palladium Nanosheets for Fast Hydrogen Sensing. <i>Nano Letters</i> , 2014, 14, 5953-5959.	4.5	86
63	Dissolution Kinetics of Oxidative Etching of Cubic and Icosahedral Platinum Nanoparticles Revealed by <i>In Situ</i> Liquid Transmission Electron Microscopy. <i>ACS Nano</i> , 2017, 11, 1696-1703.	7.3	84
64	Neighboring Pt Atom Sites in an Ultrathin FePt Nanosheet for the Efficient and Highly CO-Tolerant Oxygen Reduction Reaction. <i>Nano Letters</i> , 2018, 18, 5905-5912.	4.5	84
65	Morphokinetics: Growth of Mesoporous Silica Curved Shapes. <i>Advanced Materials</i> , 1999, 11, 52-55.	11.1	83
66	Ag-Pt alloy nanoparticles with the compositions in the miscibility gap. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1546-1551.	1.4	83
67	Modeling of Menisci and Capillary Forces from the Millimeter to the Micrometer Size Range. <i>Journal of Physical Chemistry B</i> , 2001, 105, 404-412.	1.2	81
68	Synthesis of iron oxide nanoparticles using a freshly-made or recycled imidazolium-based ionic liquid. <i>Green Chemistry</i> , 2007, 9, 1051.	4.6	81
69	Synthesis and Catalytic Properties of Silver Nanoparticle-Linear Polyethylene Imine Colloidal Systems. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4594-4604.	1.5	81
70	Synergistic Effect of Segregated Pd and Au Nanoparticles on Semiconducting SiC for Efficient Photocatalytic Hydrogenation of Nitroarenes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23029-23036.	4.0	79
71	Nanopillar Arrays of Glassy Carbon by Anodic Aluminum Oxide Nanoporous Templates. <i>Nano Letters</i> , 2003, 3, 439-442.	4.5	78
72	Synthesis and electrocatalytic oxygen reduction properties of truncated octahedral Pt ₃ Ni nanoparticles. <i>Nano Research</i> , 2011, 4, 72-82.	5.8	76

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73	Electrospun fibers as a scaffolding platform for bone tissue repair. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1382-1389.	1.2	75
74	Porous Perovskite-Type Lanthanum Cobaltite as Electrocatalysts toward Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10910-10917.	3.2	75
75	Free-standing mesoporous silica films; morphogenesis of channel and surface patterns. <i>Journal of Materials Chemistry</i> , 1997, 7, 1755-1761.	6.7	73
76	Porous Nanoparticle Membranes: Synthesis and Application as Fuel-Cell Catalysts. <i>Advanced Materials</i> , 2005, 17, 2237-2241.	11.1	68
77	Radial Patterns in Mesoporous Silica. <i>Advanced Materials</i> , 1999, 11, 636-642.	11.1	67
78	Planar tripods of platinum: formation and self-assembly. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4660.	1.3	63
79	Thickness control and defects in oriented mesoporous silica films. <i>Journal of Materials Chemistry</i> , 1998, 8, 1205-1211.	6.7	59
80	Quantitative Analysis of Different Formation Modes of Platinum Nanocrystals Controlled by Ligand Chemistry. <i>Nano Letters</i> , 2017, 17, 6146-6150.	4.5	59
81	Strong electrostatic adsorption approach to the synthesis of sub-three nanometer intermetallic platinum-cobalt oxygen reduction catalysts. <i>Nano Energy</i> , 2021, 79, 105465.	8.2	59
82	Synthesis of iron oxide nanorods and nanocubes in an imidazolium ionic liquid. <i>Chemical Engineering Journal</i> , 2009, 147, 71-78.	6.6	58
83	Facile synthesis of Rh-Pd alloy nanodendrites as highly active and durable electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2014, 6, 7012-7018.	2.8	55
84	Zirconia-coated carbonyl-iron-particle-based magnetorheological fluid for polishing optical glasses and ceramics. <i>Applied Optics</i> , 2009, 48, 6797.	2.1	53
85	Bionanotechnology: Enabling Biomedical Research with Nanomaterials. <i>Advanced Materials</i> , 2007, 19, 3085-3087.	11.1	50
86	Blueprints for inorganic materials with natural form: inorganic liquid crystals and a language of inorganic shape. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 3941-3952.	1.1	48
87	Direct Synthesis of H_2O_2 on AgPt Octahedra: The Importance of Ag-Pt Coordination for High H_2O_2 Selectivity. <i>ACS Catalysis</i> , 2018, 8, 2880-2889.	5.5	48
88	Single-Phase Pyrochlore $\text{Y}_2\text{Ir}_2\text{O}_7$ Electrocatalyst on the Activity of Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 3992-3998.	2.5	48
89	Fabrication of Magnetic FePt Patterns from Langmuir-Blodgett Films of Platinum-Iron Oxide Core-Shell Nanoparticles. <i>Advanced Materials</i> , 2004, 16, 1337-1341.	11.1	47
90	Platinum Lead Nanostructures: Formation, Phase Behavior, and Electrocatalytic Properties. <i>Advanced Functional Materials</i> , 2008, 18, 2745-2753.	7.8	45

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91	Noble-Metal Nanotubes Prepared via a Galvanic Replacement Reaction Between Cu Nanowires and Aqueous HAuCl_4 , H_2PtCl_6 , or Na_2PdCl_4 . <i>Science of Advanced Materials</i> , 2010, 2, 413-420.	0.1	45
92	Chiral discrimination in the fluorescence quenching of pyrene complexed to β -cyclodextrin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 86, 209-217.	2.0	42
93	Effect of Amino Acid Coinclusion on the Complexation of Pyrene with β -Cyclodextrin. <i>The Journal of Physical Chemistry</i> , 1996, 100, 14533-14539.	2.9	42
94	Effects of Particle Size on Mg^{2+} Ion Intercalation into β - MnO_2 Cathode Materials. <i>Nano Letters</i> , 2019, 19, 4712-4720.	4.5	41
95	Computational Study on Surface Structure and Crystal Morphology of β - Fe_2O_3 : Toward Deterministic Synthesis of Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14357-14364.	1.2	40
96	Overpressure Contact Printing. <i>Nano Letters</i> , 2004, 4, 1657-1662.	4.5	40
97	Progress in hydrogen production over transition metal carbide catalysts: challenges and opportunities. <i>Current Opinion in Chemical Engineering</i> , 2018, 20, 68-77.	3.8	40
98	Synthesis of magnetic nanocomposites and alloys from platinum-iron oxide core-shell nanoparticles. <i>Nanotechnology</i> , 2005, 16, S554-S561.	1.3	39
99	Ag-Pt Compositional Intermetallics Made from Alloy Nanoparticles. <i>Nano Letters</i> , 2016, 16, 6599-6603.	4.5	39
100	Bound oxygen-atom transfer endows peroxidase-mimic $\text{Mn}^{\text{II}}\text{N}^{\text{II}}\text{C}$ with high substrate selectivity. <i>Chemical Science</i> , 2021, 12, 8865-8871.	3.7	39
101	Improving the High-Current-Density Performance of PEMFC through Much Enhanced Utilization of Platinum Electrocatalysts on Carbon. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26076-26083.	4.0	38
102	Rheology of Aqueous Magnetorheological Fluid Using Dual Oxide-Coated Carbonyl Iron Particles. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2386-2392.	1.9	37
103	Engineering Silver-Enriched Copper Core-Shell Electrocatalysts to Enhance the Production of Ethylene and C_2^+ Chemicals from Carbon Dioxide at Low Cell Potentials. <i>Advanced Functional Materials</i> , 2021, 31, 2101668.	7.8	36
104	Synthesis and corrosion study of zirconia-coated carbonyl iron particles. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 49-56.	5.0	33
105	Lattice contracted AgPt nanoparticles. <i>Chemical Communications</i> , 2011, 47, 12595.	2.2	33
106	A Porous Pyrochlore $\text{Y}_2[\text{Ru}_{1.6}\text{Y}_{0.4}]\text{O}_7$ Electrocatalyst for Enhanced Performance towards the Oxygen Evolution Reaction in Acidic Media. <i>Angewandte Chemie</i> , 2018, 130, 14073-14077.	1.6	33
107	Design of bimetallic catalysts and electrocatalysts through the control of reactive environments. <i>Nano Today</i> , 2020, 31, 100832.	6.2	32
108	Toward Ending the Guessing Game: Study of the Formation of Nanostructures Using In Situ Liquid Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5051-5061.	2.1	31

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109	Beyond the hemicylindrical micellar monolayer on graphite: AFM evidence for a lyotropic liquid crystal film. <i>Advanced Materials</i> , 1997, 9, 917-921.	11.1	28
110	Silane-Based Poly(ethylene glycol) as a Primer for Surface Modification of Nonhydrolytically Synthesized Nanoparticles Using the Stober Method. <i>Langmuir</i> , 2008, 24, 11189-11195.	1.6	26
111	Nucleation, growth and form of mesoporous silica: role of defects and a language of shape. <i>Studies in Surface Science and Catalysis</i> , 1998, , 119-127.	1.5	25
112	A Motif for Infinite Metal Atom Wires. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14087-14091.	7.2	25
113	Recent development in the preparation of nanoparticles as fuel cell catalysts. <i>Current Opinion in Chemical Engineering</i> , 2015, 8, 89-97.	3.8	25
114	<i>In situ</i> ETEM study of composition redistribution in Pt-Ni octahedral catalysts for electrochemical reduction of oxygen. <i>AIChE Journal</i> , 2016, 62, 399-407.	1.8	24
115	Cobalt-Based Nonprecious Metal Catalysts Derived from Metal-Organic Frameworks for High-Rate Hydrogenation of Carbon Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27717-27726.	4.0	23
116	Electroforming of Copper Structures at Nanometer-Sized Gaps of Self-assembled Monolayers on Silver. <i>Chemistry of Materials</i> , 2002, 14, 1385-1390.	3.2	22
117	Quantitative Analysis of DNA-Mediated Formation of Metal Nanocrystals. <i>Journal of the American Chemical Society</i> , 2020, 142, 20368-20379.	6.6	22
118	Energy transfer between colloidal semiconductor nanocrystals in an optical microcavity. <i>Applied Physics Letters</i> , 2006, 89, 061104.	1.5	21
119	Regioselective Atomic Rearrangement of Ag-Pt Octahedral Catalysts by Chemical Vapor-Assisted Treatment. <i>Nano Letters</i> , 2016, 16, 7988-7992.	4.5	21
120	Mixed B-site ruddlesden-popper phase Sr ₂ (Ru Ir _{1-x})O ₄ enables enhanced activity for oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2022, 70, 623-629.	7.1	21
121	Synthesis and application of RuSe ₂ +Ir nanotubes as a methanol tolerant electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry</i> , 2009, 19, 1024-1030.	6.7	20
122	Enhanced Stability of (111)-Surface-Dominant Core-Shell Nanoparticle Catalysts Towards the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2013, 6, 1888-1892.	3.6	20
123	The roles of surface chemistry, dissolution rate, and delivered dose in the cytotoxicity of copper nanoparticles. <i>Nanoscale</i> , 2017, 9, 4739-4750.	2.8	20
124	W-Doped CaMnO _{2.5} and CaMnO ₃ Electrocatalysts for Enhanced Performance in Oxygen Evolution and Reduction Reactions. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1074-F1080.	1.3	20
125	Functionalized ultrathin palladium nanosheets as patches for HepG2 cancer cells. <i>Chemical Communications</i> , 2015, 51, 14171-14174.	2.2	18
126	Dish-like higher-ordered palladium nanostructures through metal ion-ligand complexation. <i>Nano Research</i> , 2018, 11, 3442-3452.	5.8	18

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127	Helical peanut-shaped poly(vinyl pyrrolidone) ribbons generated by electrospinning. <i>Polymer</i> , 2013, 54, 6752-6759.	1.8	17
128	In situ chemical vapor reaction in molten salts for preparation of platinum nanosheets via bubble breakage. <i>Journal of Materials Chemistry</i> , 2012, 22, 12046.	6.7	16
129	Ultrathin and stable AgAu alloy nanowires. <i>Science China Materials</i> , 2015, 58, 595-602.	3.5	13
130	Effects of dentin tubule occlusion by dentifrice containing a PVM/MA bioadhesive copolymer in a silica base. <i>Journal of Dentistry</i> , 2011, 39, 293-301.	1.7	12
131	Identification of key regulatory pathways of myeloid differentiation using an mESC-based karyotypically normal cell model. <i>Blood</i> , 2012, 120, 4712-4719.	0.6	12
132	Control of the composition of Pt–Ni electrocatalysts in surfactant-free synthesis using neat N-formylpiperidine. <i>Nanoscale</i> , 2016, 8, 2548-2553.	2.8	12
133	Rhodium–Palladium Nanocatalysts for Selective Methanation of Carbon Dioxide. <i>ChemNanoMat</i> , 2017, 3, 639-645.	1.5	12
134	Supportless oxygen reduction electrocatalysts of CoCuPt hollow nanoparticles. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4261-4274.	1.6	11
135	Synthesis and electrocatalytic property of cubic and spherical nanoparticles of cobalt platinum alloys. <i>Frontiers of Chemical Engineering in China</i> , 2010, 4, 45-51.	0.6	10
136	Shaping Nanostructures for Applications in Energy Conversion and Storage. <i>ChemSusChem</i> , 2013, 6, 1781-1783.	3.6	10
137	Kinetic Reconstruction of DNA-Programed Plasmonic Metal Nanostructures with Predictable Shapes and Optical Properties. <i>Journal of the American Chemical Society</i> , 2022, 144, 4410-4421.	6.6	10
138	Phase transition of SrCo _{0.9} Fe _{0.1} O ₃ electrocatalysts and their effects on oxygen evolution reaction. <i>SusMat</i> , 2022, 2, 445-455.	7.8	10
139	Study of the Durability of Faceted Pt ₃ Ni Oxygen–Reduction Electrocatalysts. <i>ChemCatChem</i> , 2012, 4, 1572-1577.	1.8	9
140	Imaging Shape-Dependent Corrosion Behavior of Pt Nanoparticles over Extended Time Using a Liquid Flow Cell and TEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 1508-1509.	0.2	9
141	Dynamics of Transformation from Platinum Icosahedral Nanoparticles to Larger FCC Crystal at Millisecond Time Resolution. <i>Scientific Reports</i> , 2017, 7, 17243.	1.6	9
142	Sequential Oxygen Reduction and Adsorption for Carbon Dioxide Purification for Flue Gas Applications. <i>Energy Technology</i> , 2019, 7, 1800917.	1.8	8
143	Boosting the activity of non-platinum group metal electrocatalyst for the reduction of oxygen via dual-ligated atomically dispersed precursors immobilized on carbon supports. <i>Nano Energy</i> , 2021, 90, 106547.	8.2	7
144	Zirconia coated carbonyl iron particle-based magnetorheological fluid for polishing. <i>Proceedings of SPIE</i> , 2009, , .	0.8	6

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145	Continuous Production of Carbon-Supported Cubic and Octahedral Platinum-Based Catalysts Using Conveyor Transport System. <i>Small</i> , 2016, 12, 4808-4814.	5.2	6
146	Self-Heating Approach to the Fast Production of Uniform Metal Nanostructures. <i>ChemNanoMat</i> , 2016, 2, 37-41.	1.5	6
147	Clean energy technology: materials, processes and devices for electrochemical energy conversion and storage. <i>Frontiers in Energy</i> , 2017, 11, 233-235.	1.2	6
148	Regulating the electronic structures of mixed B-site pyrochlore to enhance the turnover frequency in water oxidation. <i>Nano Convergence</i> , 2022, 9, 22.	6.3	6
149	Cascaded Nanozyme System with High Reaction Selectivity by Substrate Screening and Channeling in a Microfluidic Device**. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
150	Selective Reduction of Oxygen on Non-Noble Metal Copper Nanocatalysts. <i>Energy Technology</i> , 2020, 8, 1901213.	1.8	4
151	Polymer Entrapment Flash Pyrolysis for the Preparation of Nanoscale Iridium-Free Oxygen Evolution Electrocatalysts. <i>ChemNanoMat</i> , 2020, 6, 930-936.	1.5	3
152	Thiol-ene photoimmobilization of chymotrypsin on polysiloxane gels for enzymatic peptide synthesis. <i>RSC Advances</i> , 2018, 8, 11843-11849.	1.7	2
153	Dendritic nanostructured FeS ₂ -based high stability and capacity Li-ion cathodes. <i>RSC Advances</i> , 2018, 8, 38745-38750.	1.7	2
154	Effects of Superparamagnetic Iron Nanoparticles on Electrocatalysts for the Reduction of Oxygen. <i>Inorganic Chemistry</i> , 2021, 60, 4236-4242.	1.9	2
155	Multipods and Dendritic Nanoparticles of Platinum: Colloidal Synthesis and Electrocatalytic Property. , 2008, , 307-320.		2
156	Catalytic Removal of Oxygen Impurities from Pressurized Oxy-Combustion Flue Gas for the Production of High-Purity Carbon Dioxide. <i>Energy & Fuels</i> , 2022, 36, 2701-2711.	2.5	2
157	SURFACE MODIFICATIONS AND APPLICATIONS OF MAGNETIC AND SELECTIVE NONMAGNETIC NANOPARTICLES. <i>Annual Review of Nano Research</i> , 2009, , 83-147.	0.2	1
158	Nanomaterials for catalysis, energy and sustainability. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 139-141.	3.8	1
159	Oxidation of Fe Whiskers and Surface Diffusion Observed by Environmental TEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 1864-1865.	0.2	1
160	PM2.5 Pollution Level of Heavy Metals in Atmospheric Particles in Taiyuan. <i>Applied Mechanics and Materials</i> , 0, 737, 491-494.	0.2	1
161	Chemically controlled surface compositions of Ag-Pt octahedral catalysts. <i>MRS Communications</i> , 2017, 7, 179-182.	0.8	1
162	Using Magnetometry to Understand the Relative Role of Magnetic Particles in Co-Based Catalysts for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17709-17717.	1.5	1

#	ARTICLE	IF	CITATIONS
163	In Situ Observation of Pt Icosahedral Nanoparticles Transformation into FCC Single Crystal. <i>Microscopy and Microanalysis</i> , 2016, 22, 766-767.	0.2	0
164	Catalysts: Continuous Production of Carbon-Supported Cubic and Octahedral Platinum-Based Catalysts Using Conveyor Transport System (<i>Small</i> 35/2016). <i>Small</i> , 2016, 12, 4807-4807.	5.2	0
165	Surface patterns of tetragonal phase FePt thin films from Pt@Fe ₂ O ₃ core-shell nanoparticles using combined Langmuir-Blodgett and soft lithographic techniques. <i>Materials Research Society Symposia Proceedings</i> , 2003, 776, 1071.	0.1	0
166	(Invited) Pyrochlore-Type, Acid-Stable Electrocatalysts for Oxygen Evolution Reaction. <i>ECS Meeting Abstracts</i> , 2018, .	0.0	0