Catalysis Based on Nanocrystals with Wellâ€Defined Fa

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Citation Report

#	Article	IF	Citations
1	Synthesis and applications of noble metal nanocrystals with high-energy facets. Nano Today, 2012, 7, 586-605.	6.2	224
2	Shape-controlled synthesis and catalytic application of ceria nanomaterials. Dalton Transactions, 2012, 41, 14455.	1.6	350
3	One-Pot Synthesis of Cubic PtCu₃ Nanocages with Enhanced Electrocatalytic Activity for the Methanol Oxidation Reaction. Journal of the American Chemical Society, 2012, 134, 13934-13937.	6.6	581
5	Biomimetic Oxygen Activation by MoS₂/Ta₃N₅ Nanocomposites for Selective Aerobic Oxidation. Angewandte Chemie - International Edition, 2012, 51, 11740-11744.	7.2	66
6	Trisoctahedral Auâ€“Pd Alloy Nanocrystals with Highâ€Index Facets and Their Excellent Catalytic Performance. Chemistry - A European Journal, 2012, 18, 16626-16630.	1.7	42
7	Facile synthesis of multifunctional graphene oxide/AgNPs-Fe3O4 nanocomposite: A highly integrated catalysts. Chemical Engineering Journal, 2012, 211-212, 412-420.	6.6	55
8	Laser-induced reshaping of particles aiming at energy-saving applications. Journal of Materials Chemistry, 2012, 22, 15947.	6.7	39
9	Facile synthesis of uniform h-BN nanocrystals and their application as a catalyst support towards the selective oxidation of benzyl alcohol. RSC Advances, 2012, 2, 10689.	1.7	20
10	Centrifugal Shape Sorting of Faceted Gold Nanoparticles Using an Atomic Plane-Selective Surfactant. Journal of Physical Chemistry Letters, 2012, 3, 1484-1487.	2.1	7
11	Defining Rules for the Shape Evolution of Gold Nanoparticles. Journal of the American Chemical Society, 2012, 134, 14542-14554.	6.6	609
12	Surface plasmon resonance-mediated photocatalysis by noble metal-based composites under visible light. Journal of Materials Chemistry, 2012, 22, 21337.	6.7	462
13	Advances in the Rational Design of Rhodium Nanoparticle Catalysts: Control via Manipulation of the Nanoparticle Core and Stabilizer. ACS Catalysis, 2012, 2, 1057-1069.	5.5	163
14	Platinum Nanoparticles Stabilized by Cucurbit[6]uril with Enhanced Catalytic Activity and Excellent Poisoning Tolerance for Methanol Electrooxidation. Chemistry - A European Journal, 2012, 18, 12978-12985.	1.7	46
15	Shape-controlled synthesis of Cu2O microparticles and their catalytic performances in the Rochow reaction. Catalysis Science and Technology, 2012, 2, 1207.	2.1	54
16	Exploring the Different Photocatalytic Performance for Dye Degradations over Hexagonal ZnIn₂S₄ Microspheres and Cubic ZnIn₂S₄ Nanoparticles. ACS Applied Materials & Interfaces, 2012, 4, 2273-2279.	4.0	209
17	A DFT-D study of structural and energetic properties of TiO₂modifications. Journal of Physics Condensed Matter, 2012, 24, 424206.	0.7	51
18	Synthesis and catalytic properties of bimetallic nanomaterials with various architectures. Nano Today, 2012, 7, 448-466.	6.2	463
19	Morphology-dependent nanocatalysis on metal oxides. Science China Chemistry, 2012, 55, 2485-2496.	4.2	47

#	Article	IF	Citations
20	Seed-mediated growth method for high-quality noble metal nanocrystals. Science China Chemistry, 2012, 55, 2311-2317.	4.2	26
21	Shape-controlled synthesis of polyhedral 50-facet Cu2O microcrystals with high-index facets. CrystEngComm, 2012, 14, 4431.	1.3	70
22	Hexoctahedral Au Nanocrystals with High-Index Facets and Their Optical and Surface-Enhanced Raman Scattering Properties. Journal of the American Chemical Society, 2012, 134, 4565-4568.	6.6	155
24	Microfluidic Synthesis of Palladium Nanocrystals Assisted by Supercritical CO‹sub›2‹/sub›: Tailored Surface Properties for Applications in Boron Chemistry. Angewandte Chemie - International Edition, 2012, 51, 8525-8528.	7.2	38
26	Manufacturing of inorganic nanomaterials: concepts and perspectives. Nanoscale, 2012, 4, 2813.	2.8	43
27	A Unique Silk Mat-Like Structured Pd/CeO‹sub›2‹/sub› as an Efficient Visible Light Photocatalyst for Green Organic Transformation in Water. ACS Sustainable Chemistry and Engineering, 2013, 1, 1258-1266.	3.2	74
28	Surface Structure Dependent Electrocatalytic Activity of Co3O4 Anchored on Graphene Sheets toward Oxygen Reduction Reaction. Scientific Reports, 2013, 3, 2300.	1.6	274
29	Effect of nickel nanoparticle size in Ni/Î±-Al2O3 on CO methanation reaction for the production of synthetic natural gas. Catalysis Science and Technology, 2013, 3, 2009.	2.1	110
30	One-dimensional metal oxide nanostructures for heterogeneous catalysis. Nanoscale, 2013, 5, 7175.	2.8	38
31	Sub-2 nm size and density tunable platinum nanoparticles using room temperature tilted-target sputtering. Nanotechnology, 2013, 24, 205602.	1.3	31
32	Co3O4 nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. Journal of Materials Chemistry A, 2013, 1, 14427.	5.2	147
33	Controlled synthesis of nanostructured manganese oxide: crystalline evolution and catalytic activities. CrystEngComm, 2013, 15, 7010.	1.3	179
34	Octahedral Nobleâ€Metal Nanoparticles and Their Electrocatalytic Properties. ChemSusChem, 2013, 6, 1848-1857.	3.6	7
35	Selective Deposition of Ag‹sub›3‹/sub›PO‹sub›4‹/sub› on Monoclinic BiVO‹sub›4‹/sub›(040) for Highly Efficient Photocatalysis. Small, 2013, 9, 3951-3956.	5.2	215
36	Porous Ptâ€“M (M = Cu, Zn, Ni) nanoparticles as robust nanocatalysts. Chemical Communications, 2013, 49, 7168.	2.2	26
37	Crystal Plane-Dependent Surface Reactivity and Catalytic Property of Oxide Catalysts Studied with Oxide Nanocrystal Model Catalysts. Topics in Catalysis, 2013, 56, 1363-1376.	1.3	58
38	Nanoparticle Shape Selectivity in Catalysis: Butene Isomerization and Hydrogenation on Platinum. Topics in Catalysis, 2013, 56, 1284-1298.	1.3	25
39	Mixed-Metal Oxides. , 2013, , 153-184.		1

#	Article	IF	Citations
40	Influence of calcination and pretreatment conditions on the activity of Co3O4 for CO oxidation. Chinese Journal of Catalysis, 2013, 34, 283-293.	6.9	16
41	Structural and Surface Effect of MnO2 for Low Temperature Selective Catalytic Reduction of NO with NH3. Procedia Environmental Sciences, 2013, 18, 384-390.	1.3	42
42	Metalâ€"Organic Framework-Immobilized Polyhedral Metal Nanocrystals: Reduction at Solidâ€"Gas Interface, Metal Segregation, Coreâ€"Shell Structure, and High Catalytic Activity. Journal of the American Chemical Society, 2013, 135, 16356-16359.	6.6	119
43	Improving Photocatalytic H₂ Evolution of TiO₂ via Formation of {001}â€"{010} Quasi-Heterojunctions. Journal of Physical Chemistry C, 2013, 117, 22894-22902.	1.5	38
44	Crystal-Plane Effects on the Catalytic Properties of Au/TiO₂. ACS Catalysis, 2013, 3, 2768-2775.	5.5	120
45	Highly Concave Platinum Nanoframes with Highâ€Index Facets and Enhanced Electrocatalytic Properties. Angewandte Chemie - International Edition, 2013, 52, 12337-12340.	7.2	193
46	Mesostructural Bi-Mo-O catalyst: correct structure leading to high performance. Scientific Reports, 2013, 3, 2881.	1.6	15
47	Alcohol induced ultra-fine dispersion of Pt on tuned morphologies of CeO2 for CO oxidation. Applied Catalysis B: Environmental, 2013, 130-131, 121-131.	10.8	49
48	Multifunctionality in metal@microgel colloidal nanocomposites. Journal of Materials Chemistry A, 2013, 1, 20-26.	5.2	65
49	Progress in organic reactions catalyzed by bimetallic nanomaterials. Chinese Journal of Catalysis, 2013, 34, 1964-1974.	6.9	40
50	Facet-dependent electrochemical properties of Co3O4 nanocrystals toward heavy metal ions. Scientific Reports, 2013, 3, 2886.	1.6	105
52	Plasmonâ€Mediated Syntheses of Metallic Nanostructures. Angewandte Chemie - International Edition, 2013, 52, 13910-13940.	7.2	182
55	Rapid continuous flow synthesis of high-quality silver nanocubes and nanospheres. RSC Advances, 2013, 3, 22397.	1.7	25
56	Exposed Surfaces on Shapeâ€Controlled Ceria Nanoparticles Revealed through ACâ€TEM and Waterâ€"Gas Shift Reactivity. ChemSusChem, 2013, 6, 1898-1906.	3.6	134
57	Shapeâ€Controlled Ceriaâ€based Nanostructures for Catalysis Applications. ChemSusChem, 2013, 6, 1821-1833.	3.6	176
58	Morphology Effect of CeO₂ Support in the Preparation, Metalâ€"Support Interaction, and Catalytic Performance of Pt/CeO₂ Catalysts. ChemCatChem, 2013, 5, 3610-3620.	1.8	189
59	Defect-Dominated Shape Recovery of Nanocrystals: A New Strategy for Trimetallic Catalysts. Journal of the American Chemical Society, 2013, 135, 12220-12223.	6.6	96
60	Identification of â€œhot spotsâ€• of the science of catalysis: bibliometric and thematic analysis of nowaday reviews and monographs. Russian Chemical Bulletin, 2013, 62, 2266-2278.	0.4	6

#	Article	IF	Citations
61	Novel Bi2O3 nanoporous film fabricated by anodic oxidation and its photoelectrochemical performance. Journal of Solid State Electrochemistry, 2013, 17, 1215-1219.	1.2	21
62	A new strategy for the surface-free-energy-distribution induced selective growth and controlled formation of Cu₂Oâ€"Au hierarchical heterostructures with a series of morphological evolutions. Journal of Materials Chemistry A, 2013, 1, 919-929.	5.2	84
63	Biomimetic Synthesis of an Ultrathin Platinum Nanowire Network with a High Twin Density for Enhanced Electrocatalytic Activity and Durability. Angewandte Chemie - International Edition, 2013, 52, 12577-12581.	7.2	174
64	Evolution of space-efficient and facet-specific ZnO 3-D nanostructures and their application in photocatalysis. CrystEngComm, 2013, 15, 2601-2607.	1.3	21
65	In situ identification of crystal facet-mediated chemical reactions on tetrahexahedral gold nanocrystals using surface-enhanced Raman spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 19337.	1.3	15
66	Surface-dependent oxidation of H 2 on CeO 2 surfaces. Journal of Catalysis, 2013, 297, 193-201.	3.1	109
67	One-pot synthesis of branched palladium nanodendrites with superior electrocatalytic performance. Nanoscale, 2013, 5, 3202.	2.8	56
68	High-Performance and Long-Lived Pd Nanocatalyst Directed by Shape Effect for CO Oxidative Coupling to Dimethyl Oxalate. ACS Catalysis, 2013, 3, 118-122.	5.5	138
69	Self-doped Ce3+ enhanced CeO2 host matrix for energy transfer from Ce3+ to Tb3+. RSC Advances, 2013, 3, 3623.	1.7	22
70	On the synergistic effect of hydrohalic acids in the shape-controlled synthesis of anatase TiO₂single crystals. CrystEngComm, 2013, 15, 3252-3255.	1.3	45
71	Structureâ€Dependent Electrocatalysis of Ni(OH)₂ Hourglassâ€like Nanostructures Towards <scp>L</scp>â€Histidine. Chemistry - A European Journal, 2013, 19, 501-508.	1.7	21
72	A Highly Efficient, Cleanâ€Surface, Porous Platinum Electrocatalyst and the Inhibition Effect of Surfactants on Catalytic Activity. Chemistry - A European Journal, 2013, 19, 240-248.	1.7	71
73	Selective oxidation of toluene using surface-modified vanadium oxide nanobelts. Chinese Journal of Catalysis, 2013, 34, 1297-1302.	6.9	5
74	Dimensionality-dependent performance of nanostructured bismuth sulfide in photodegradation of organic dyes. Materials Chemistry and Physics, 2013, 138, 755-761.	2.0	21
75	Controlled synthesis of nanostructured Co film catalysts with high performance for hydrogen generation from sodium borohydride solution. Journal of Power Sources, 2013, 239, 277-283.	4.0	55
76	Quantitative Analysis of the Coverage Density of Br^{â€"} Ions on Pd{100} Facets and Its Role in Controlling the Shape of Pd Nanocrystals. Journal of the American Chemical Society, 2013, 135, 3780-3783.	6.6	156
77	Hierarchical nanostructures with unique Y-shaped interconnection networks in manganese substituted cobalt oxides: the enhancement effect on electrochemical sensing performance. Chemical Communications, 2013, 49, 3025.	2.2	23
78	Synthesis of Gold Hexagonal Bipyramids Directed by Planar-Twinned Silver Triangular Nanoprisms. Journal of the American Chemical Society, 2013, 135, 3800-3803.	6.6	67

#	Article	IF	Citations
79	High catalytic activity for CO oxidation of Co₃O₄nanoparticles in SiO₂nanocapsules. Journal of Materials Chemistry A, 2013, 1, 637-643.	5.2	59
80	Seed-mediated growth of noble metal nanocrystals: crystal growth and shape control. Nanoscale, 2013, 5, 3172.	2.8	173
81	Large-scale preparation and morphology-dependent photodegradation performances of monodispersed AgBr crystals. Applied Catalysis A: General, 2013, 455, 199-205.	2.2	11
82	Synthesis and Catalytic Properties of Sb₂S₃ Nanowire Bundles as Counter Electrodes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 10285-10290.	1.5	42
83	Growth of Concave Polyhedral Pd Nanocrystals with 32 Facets Through Inâ€…Situ Facetâ€Selective Etching. ChemSusChem, 2013, 6, 1893-1897.	3.6	17
84	Design of Heterogeneous Catalysts for Fuels and Chemicals Processing: An Overview. ACS Symposium Series, 2013, , 3-68.	0.5	36
85	Nanometallic chemistry: deciphering nanoparticle catalysis from the perspective of organometallic chemistry and homogeneous catalysis. Dalton Transactions, 2013, 42, 13294.	1.6	81
86	Nanoparticles. Annual Reports on the Progress of Chemistry Section A, 2013, 109, 453.	0.8	5
87	Environment-mediated structure, surface redox activity and reactivity of ceria nanoparticles. Nanoscale, 2013, 5, 6063.	2.8	71
88	Surface and interface control of noble metal nanocrystals for catalytic and electrocatalytic applications. Nano Today, 2013, 8, 168-197.	6.2	431
89	Facile Hydrogenâ€Bondâ€Assisted Polymerization and Immobilization Method to Synthesize Hierarchical Fe₃O₄@Poly(4â€vinylpyridineâ€coâ€divinylbenzene)@Au Nanostructures and Their Catalytic Applications. Chemistry - an Asian Journal, 2013, 8, 1160-1167.	1.7	44
90	Catalysis on faceted noble-metal nanocrystals: both shape and size matter. Current Opinion in Chemical Engineering, 2013, 2, 142-150.	3.8	115
91	Achieving polyhedral nanocrystal growth with systematic shape control. Journal of Materials Chemistry A, 2013, 1, 8081.	5.2	60
92	Layered double hydroxide-based catalysts: nanostructure design and catalytic performance. Chemical Communications, 2013, 49, 5912.	2.2	289
93	Manipulation of the Reducibility of Ceriaâ€Supported Au Catalysts by Interface Engineering. ChemCatChem, 2013, 5, 1308-1312.	1.8	11
94	Facet-Dependent Catalytic Activity of Platinum Nanocrystals for Triiodide Reduction in Dye-Sensitized Solar Cells. Scientific Reports, 2013, 3, 1836.	1.6	146
95	Preparation of Î±-MnO 2 nanowires and its application in low temperature CO oxidation. Korean Journal of Chemical Engineering, 2013, 30, 2012-2016.	1.2	20
96	Theoretical Study of H₂O Adsorption on Zn₂GeO₄ Surfaces: Effects of Surface State and Structureâ€“Activity Relationships. ACS Applied Materials & Interfaces, 2013, 5, 6893-6901.	4.0	11

#	Article	IF	Citations
97	Synthesis and antimicrobial activity of ZnTiâ€"layered double hydroxide nanosheets. Journal of Materials Chemistry B, 2013, 1, 5988.	2.9	56
98	Dopant-Induced Modification of Active Site Structure and Surface Bonding Mode for High-Performance Nanocatalysts: CO Oxidation on Capping-free (110)-oriented CeO₂:Ln (Ln) Tj ETQq1 1 0.784314 rgBT /C	6.6	314
99	The electronic structure and geometric structure of nanoclusters as catalytic active sites. Nanotechnology Reviews, 2013, 2, 515-528.	2.6	42
100	Crystalâ€Planeâ€Controlled Surface Chemistry and Catalytic Performance of Surfactantâ€Free Cu₂O Nanocrystals. ChemSusChem, 2013, 6, 1966-1972.	3.6	89
101	PdPt Nanocubes: A Highâ€Performance Catalyst for Hydrolytic Dehydrogenation of Ammonia Borane. Particle and Particle Systems Characterization, 2013, 30, 888-892.	1.2	56
102	Crystalâ€Facet Engineering of Ferric Giniite by Using Ionicâ€Liquid Precursors and Their Enhanced Photocatalytic Performances under Visibleâ€Light Irradiation. Chemistry - A European Journal, 2013, 19, 7231-7242.	1.7	29
105	Facile synthesis, shape evolution and magnetic properties of polyhedral 50-facet Fe₃O₄nanocrystals partially enclosed by {311} high-index planes. CrystEngComm, 2014, 16, 10451-10459.	1.3	20
106	Shape-controlled synthesis of Pt-Ir nanocubes with preferential (100) orientation and their unusual enhanced electrocatalytic activities. Science China Materials, 2014, 57, 13-25.	3.5	58
107	Grain boundaries in nanocrystalline catalytic materials as a source of surface chemical functionality. Reviews in Chemical Engineering, 2014, 30, 379-401.	2.3	17
108	Copper oxide nanoplatelets and nanoflowers: facile synthesis and catalytic activity in oxidative degradation of methylene blue. Micro and Nano Letters, 2014, 9, 432-436.	0.6	5
109	Development of new methods in modern selective organic synthesis: preparation of functionalized molecules with atomic precision. Russian Chemical Reviews, 2014, 83, 885-985.	2.5	182
110	Tin Oxide Microspheres with Exposed {101} Facets for Dyeâ€sensitized Solar Cells: Enhanced Photocurrent and Photovoltage. ChemSusChem, 2014, 7, 172-178.	3.6	14
111	Lowâ€Temperature Remediation of NO Catalyzed by Interleaved CuO Nanoplates. Advanced Materials, 2014, 26, 4481-4485.	11.1	79
112	Crystalâ€Planeâ€Controlled Selectivity of Cu₂O Catalysts in Propylene Oxidation with Molecular Oxygen. Angewandte Chemie - International Edition, 2014, 53, 4856-4861.	7.2	180
114	Selfâ€Assembled Platinum Nanoflowers on Polydopamineâ€Coated Reduced Graphene Oxide for Methanol Oxidation and Oxygen Reduction Reactions. Chemistry - an Asian Journal, 2014, 9, 3221-3227.	1.7	16
115	Quantitative determination of a nano-object's atom density without atomic resolution. Physical Review B, 2014, 90, .	1.1	6
116	COLLOIDAL PREPARATION OF MONODISPERSE NANOCRYSTALS. Journal of Molecular and Engineering Materials, 2014, 02, 1430001.	0.9	6
117	Shape-controlled metal nanocrystals for catalytic applications. MRS Bulletin, 2014, 39, 727-737.	1.7	41

#	Article	IF	Citations
118	InOCl nanosheets with exposed {001} facets: Synthesis, electronic structure and surprisingly high photocatalytic activity. Applied Catalysis B: Environmental, 2014, 152-153, 390-396.	10.8	13
119	Direct growth of ZnO nanodisk networks with an exposed (0001) facet on Au comb-shaped interdigitating electrodes and the enhanced gas-sensing property of polar {0001} surfaces. Sensors and Actuators B: Chemical, 2014, 195, 71-79.	4.0	59
121	Successive, Seedâ€Mediated Growth for the Synthesis of Singleâ€Crystal Gold Nanospheres with Uniform Diameters Controlled in the Range of 5â€“150 nm. Particle and Particle Systems Characterization, 2014, 31, 266-273.	1.2	269
122	New advances in the use of infrared absorption spectroscopy for the characterization of heterogeneous catalytic reactions. Chemical Society Reviews, 2014, 43, 7624-7663.	18.7	243
123	Electrochemistry of Nanoparticles. Angewandte Chemie - International Edition, 2014, 53, 3558-3586.	7.2	333
124	Facile Synthesis of Multipodal MnO Nanocrystals and Their Catalytic Performance. European Journal of Inorganic Chemistry, 2014, 2014, 1279-1283.	1.0	11
125	Shape Control of Mn₃O₄ Nanoparticles on Nitrogenâ€Doped Graphene for Enhanced Oxygen Reduction Activity. Advanced Functional Materials, 2014, 24, 2072-2078.	7.8	283
127	Defect Chemistry of Ceria Nanorods. Journal of Physical Chemistry C, 2014, 118, 4131-4142.	1.5	110
128	Co3O4 nanosheets: synthesis and catalytic application for CO oxidation at room temperature. Science China Chemistry, 2014, 57, 873-880.	4.2	13
129	Nanocasting Synthesis of In₂O₃ with Appropriate Mesostructured Ordering and Enhanced Gas-Sensing Property. ACS Applied Materials & Interfaces, 2014, 6, 401-409.	4.0	119
130	Oneâ€Pot Synthesis of Platinum Nanocubes on Reduced Graphene Oxide with Enhanced Electrocatalytic Activity. Small, 2014, 10, 2336-2339.	5.2	47
131	CuO nanostructures: Synthesis, characterization, growth mechanisms, fundamental properties, and applications. Progress in Materials Science, 2014, 60, 208-337.	16.0	1,086
132	Selectivity in the catalytic hydrogenation of cinnamaldehyde promoted by Pt/SiO2 as a function of metal nanoparticle size. Catalysis Science and Technology, 2014, 4, 955-962.	2.1	72
133	One pot synthesis of nanoscale phase-segregated PdPt nanoarchitectures via unusual Pt-doping induced structural reorganization of a Pd nanosheet into a PdPt nanotent. Nanoscale, 2014, 6, 10551.	2.8	19
134	Why does bromine square palladium off? An ab initio study of brominated palladium and its nanomorphology. Physical Chemistry Chemical Physics, 2014, 16, 18570-18577.	1.3	24
135	Catalytic activity of shaped platinum nanoparticles for hydrogenation: a kinetic study. Catalysis Science and Technology, 2014, 4, 3290.	2.1	35
136	The facet-dependent enhanced catalytic activity of Pd nanocrystals. Chemical Communications, 2014, 50, 9454.	2.2	43
137	Stabilizing Gold Nanoparticles by Solid Supports. RSC Catalysis Series, 2014, , 1-26.	0.1	5

#	Article	IF	Citations
138	Distinct optical and magnetic properties of ionic liquid tuned hematite nanocrystals having different exposed (001) facets. RSC Advances, 2014, 4, 593-597.	1.7	10
139	The crystal plane effect of CoFe nanocrystals on Fischerâ€"Tropsch synthesis. Journal of Materials Chemistry A, 2014, 2, 13116-13122.	5.2	20
140	Crystal facet control of LaFeO3, LaCrO3, and La0.75Sr0.25MnO3. CrystEngComm, 2014, 16, 2874.	1.3	25
141	Thermodynamic controlled synthesis of intermetallic Au₃Cu alloy nanocrystals from Cu microparticles. Journal of Materials Chemistry A, 2014, 2, 902-906.	5.2	77
142	Facet-dependent properties of polyhedral nanocrystals. Chemical Communications, 2014, 50, 1634.	2.2	126
143	NaY(MoO4)2 microcrystals with controlled faceting and their tunable photoluminescence properties after doping with Eu3+. RSC Advances, 2014, 4, 13502.	1.7	16
144	Silver Iodide Microstructures of a Uniform Towerlike Shape: Morphology Purification via a Chemical Dissolution, Simultaneously Boosted Catalytic Durability, and Enhanced Catalytic Performances. ACS Applied Materials & Interfaces, 2014, 6, 4160-4169.	4.0	17
145	Opposite Face Sensitivity of CeO₂ in Hydrogenation and Oxidation Catalysis. Angewandte Chemie - International Edition, 2014, 53, 12069-12072.	7.2	199
146	Unique Excavated Rhombic Dodecahedral PtCu₃ Alloy Nanocrystals Constructed with Ultrathin Nanosheets of High-Energy {110} Facets. Journal of the American Chemical Society, 2014, 136, 3748-3751.	6.6	226
147	Hexadecylphosphate-Functionalized Iron Oxide Nanoparticles: Mild Oxidation of Benzyl Câ€"H Bonds Exclusive to Carbonyls by Molecular Oxygen. ACS Catalysis, 2014, 4, 2746-2752.	5.5	20
148	Synthesis of Novel Two-Phase Co@SiO₂ Nanorattles with High Catalytic Activity. Inorganic Chemistry, 2014, 53, 9073-9079.	1.9	41
149	Utilization of shape-controlled nanoparticles as catalysts with enhanced activity and selectivity. RSC Advances, 2014, 4, 41017-41027.	1.7	54
150	Role of the Morphology and Surface Planes on the Catalytic Activity of Spinel LiMn1.5Ni0.5O4 for Oxygen Evolution Reaction. ACS Catalysis, 2014, 4, 421-425.	5.5	54
151	Facile synthesis of single crystal Fe₃O₄sub-microcubes free of any capping agent and their catalytic performance in p-nitrophenol reduction. Journal of Materials Chemistry A, 2014, 2, 17530-17535.	5.2	22
152	Influence and Removal of Capping Ligands on Catalytic Colloidal Nanoparticles. Catalysis Letters, 2014, 144, 1355-1369.	1.4	84
153	Bi₂MoO₆ Nanobelts for Crystal Facetâ€Enhanced Photocatalysis. Small, 2014, 10, 2791-2795.	5.2	145
154	A Rational Biomimetic Approach to Structure Defect Generation in Colloidal Nanocrystals. ACS Nano, 2014, 8, 6934-6944.	7.3	49
155	Recent progress on graphene-based hybrid electrocatalysts. Materials Horizons, 2014, 1, 379-399.	6.4	303

#	Article	IF	Citations
156	Self-assembly of colloidal one-dimensional nanocrystals. Chemical Society Reviews, 2014, 43, 2301.	18.7	182
157	Citrateâ€“hydrazine hydrogen-bonding driven single-step synthesis of tunable near-IR plasmonic, anisotropic silver nanocrystals: implications for SERS spectroscopy of inorganic oxoanions. Dalton Transactions, 2014, 43, 11826-11833.	1.6	21
158	The synthesis of CeO₂nanospheres with different hollowness and size induced by copper doping. Nanoscale, 2014, 6, 10693.	2.8	83
159	Layered Double Hydroxideâ€based Nanomaterials as Highly Efficient Catalysts and Adsorbents. Small, 2014, 10, 4469-4486.	5.2	363
160	The role of ceria-based nanostructured materials in energy applications. Materials Today, 2014, 17, 349-357.	8.3	228
161	Preparation and cyclic voltammetric dissolution of coreâ€“shellâ€“shell Agâ€“Ptâ€“Ag nanocubes and their comparison in oxygen reduction reaction in alkaline media. International Journal of Hydrogen Energy, 2014, 39, 5528-5536.	3.8	14
162	Morphology-dependent nanocatalysts: Rod-shaped oxides. Chemical Society Reviews, 2014, 43, 1543-1574.	18.7	445
163	A model of interface-related enhancement based on the contrast between Co3O4 sphere and cube for electrochemical detection of hydrogen peroxide. Electrochemistry Communications, 2014, 40, 67-70.	2.3	27
164	Rational Design of High-Performance DeNO_x Catalysts Based on Mn_xCo_{3â€“x}O₄ Nanocages Derived from Metalâ€“Organic Frameworks. ACS Catalysis, 2014, 4, 1753-1763.	5.5	466
165	Morphology controllable synthesis of NaLa(WO4)2: the morphology dependent photoluminescent properties and single-phased white light emission of NaLa(WO4)2: Eu3+/Tb3+/Tm3+. CrystEngComm, 2014, 16, 1268.	1.3	62
166	Strategy for Nanoâ€Catalysis in a Fixedâ€Bed System. Advanced Materials, 2014, 26, 4151-4155.	11.1	95
167	Shape-Dependent Activity of Ceria in Soot Combustion. ACS Catalysis, 2014, 4, 172-181.	5.5	377
168	High-Energy-Surface Engineered Metal Oxide Micro- and Nanocrystallites and Their Applications. Accounts of Chemical Research, 2014, 47, 308-318.	7.6	203
169	Synthesis of hexagonal and triangular Fe3O4 nanosheets via seed-mediated solvothermal growth. Nano Research, 2014, 7, 536-543.	5.8	52
170	Metal oxide mesocrystals with tailored structures and properties for energy conversion and storage applications. NPG Asia Materials, 2014, 6, e100-e100.	3.8	89
172	Facetâ€Controlled Synthetic Strategy of Cu₂Oâ€Based Crystals for Catalysis and Sensing. Advanced Science, 2015, 2, 1500140.	5.6	175
173	A Facile Approach to Prepare Bismuth Oxide Nanorods for Application in Optoelectronic Devices. Chemistry Letters, 2015, 44, 97-99.	0.7	3
174	Denitration performance of modified AC loaded with nano V2O5 with different morphologies. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 1204-1209.	0.4	2

#	Article	IF	Citations
175	Structure Evolution and Associated Catalytic Properties of Ptï£¿Sn Bimetallic Nanoparticles. Chemistry - A European Journal, 2015, 21, 12034-12041.	1.7	53
176	Towards Shape Control of Metal Oxide Nanocrystals in Confined Molten Media. ChemNanoMat, 2015, 1, 18-26.	1.5	18
177	Titania Morphologyâ€Dependent Goldâ€"Titania Interaction, Structure, and Catalytic Performance of Gold/Titania Catalysts. ChemCatChem, 2015, 7, 3290-3298.	1.8	60
178	Monitoring Ligandâ€Mediated Growth and Aggregation of Metal Nanoparticles and Nanodendrites by In Situ Synchrotron Scattering Techniques. ChemNanoMat, 2015, 1, 109-114.	1.5	13
179	Synthesis of Concave Pt Nanocubes and Concave Mn-Doped Pt Nano-octahedra by Identifying a Synergistic Effect among Surface Binding Moieties. Particle and Particle Systems Characterization, 2015, 32, 986-990.	1.2	3
180	Effects of Nano-CeO2 with Different Nanocrystal Morphologies on Cytotoxicity in HepG2 Cells. International Journal of Environmental Research and Public Health, 2015, 12, 10806-10819.	1.2	34
181	{331}-Faceted trisoctahedral gold nanocrystals: synthesis, superior electrocatalytic performance and highly efficient SERS activity. Nanoscale, 2015, 7, 8405-8415.	2.8	46
182	Charge Separation between Polar {111} Surfaces of CoO Octahedrons and Their Enhanced Visible-Light Photocatalytic Activity. ACS Applied Materials & Interfaces, 2015, 7, 6109-6117.	4.0	56
183	Morphological Effects of Gold Clusters on the Reactivity of Ceria Surface Oxygen. ACS Catalysis, 2015, 5, 2873-2881.	5.5	69
184	One-pot synthesis of porous Ptâ€"Au nanodendrites supported on reduced graphene oxide nanosheets toward catalytic reduction of 4-nitrophenol. Journal of Materials Chemistry A, 2015, 3, 290-296.	5.2	212
185	Bridging the gap between insightful simplicity and successful complexity: From fundamental studies on model systems to technical catalysts. Journal of Catalysis, 2015, 328, 59-71.	3.1	17
186	A novel label free long non-coding RNA electrochemical biosensor based on green <scp>l</scp>-cysteine electrodeposition and Auâ€"Rh hollow nanospheres as tags. RSC Advances, 2015, 5, 51990-51999.	1.7	18
187	A one-step, clean, capping-agent-free electrochemical approach to prepare Pt nanoparticles with preferential (100) orientation and their high electrocatalytic activities. Electrochemistry Communications, 2015, 58, 6-10.	2.3	38
188	Ceria Nanoshapesâ€"Structural and Catalytic Properties. , 2015, , 31-70.		9
189	Morphology-dependent interplay of reduction behaviors, oxygen vacancies and hydroxyl reactivity of CeO₂ nanocrystals. Physical Chemistry Chemical Physics, 2015, 17, 31862-31871.	1.3	96
190	Atomically thin MoSe₂/graphene and WSe₂/graphene nanosheets for the highly efficient oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 24397-24404.	5.2	106
191	Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. Nano Research, 2015, 8, 82-96.	5.8	84
192	Spherical and Sheetlike Ag/AgCl Nanostructures: Interesting Photocatalysts with Unusual Facet-Dependent yet Substrate-Sensitive Reactivity. Langmuir, 2015, 31, 602-610.	1.6	33

#	Article	IF	Citations
193	Facet-Dependent Electrocatalytic Performance of Co₃O₄ for Rechargeable Liâ€“O₂ Battery. Journal of Physical Chemistry C, 2015, 119, 4516-4523.	1.5	99
194	Tailoring the shape of amorphous nanomaterials: recent developments and applications. Science China Materials, 2015, 58, 44-59.	3.5	51
195	Superior photocatalytic activities of NiO octahedrons with loaded AgCl particles and charge separation between polar NiO {111} surfaces. Applied Catalysis B: Environmental, 2015, 172-173, 165-173.	10.8	41
196	Shaping Single-Crystalline Trimetallic Ptâ€“Pdâ€“Rh Nanocrystals toward High-Efficiency Câ€“C Splitting of Ethanol in Conversion to CO₂. ACS Catalysis, 2015, 5, 1995-2008.	5.5	80
197	Synthesis of Hierarchical FeWO₄ Architectures with {100}-Faceted Nanosheet Assemblies as a Robust Biomimetic Catalyst. Industrial & Engineering Chemistry Research, 2015, 54, 1171-1178.	1.8	33
198	Two-Dimensional MoS₂ Nanosheet-Coated Bi₂S₃ Discoids: Synthesis, Formation Mechanism, and Photocatalytic Application. Langmuir, 2015, 31, 4314-4322.	1.6	178
199	Morphology Effect of Ir/La₂O₂CO₃ Nanorods with Selectively Exposed {110} Facets in Catalytic Steam Reforming of Glycerol. ACS Catalysis, 2015, 5, 1155-1163.	5.5	64
200	Engineering a high energy surface of anatase TiO₂ crystals towards enhanced performance for energy conversion and environmental applications. RSC Advances, 2015, 5, 20396-20409.	1.7	79
201	Controlled Synthesis of a Hexagonalâ€Shaped NiO Nanocatalyst with Highly Reactive Facets {1â€‰1â€‰0} and Its Catalytic Activity. ChemCatChem, 2015, 7, 791-798.	1.8	36
202	Fabrication of Hierarchical Fe₃O₄@SiO₂@P(4VPâ€DVB)@Au Nanostructures and Their Enhanced Catalytic Properties. Chemistry - an Asian Journal, 2015, 10, 701-708.	1.7	25
203	Soft landing of bare nanoparticles with controlled size, composition, and morphology. Nanoscale, 2015, 7, 3491-3503.	2.8	65
204	(100) surface-exposed CeO₂nanocubes as an efficient heterogeneous catalyst in the tandem oxidation of benzyl alcohol, para-chlorobenzyl alcohol and toluene to the corresponding aldehydes selectively. Journal of Materials Chemistry A, 2015, 3, 6909-6920.	5.2	64
205	Catalytic hydrogenation by noble-metal nanocrystals with well-defined facets: a review. Catalysis Science and Technology, 2015, 5, 2532-2553.	2.1	89
206	Toward continuous and scalable production of colloidal nanocrystals by switching from batch to droplet reactors. Chemical Society Reviews, 2015, 44, 5806-5820.	18.7	141
207	Dependence of alloying and island composition on terrace width: Growth of Cu on Ag(100). Physical Review B, 2015, 92, .	1.1	5
208	Facile synthesis of CeO2 hollow structures with controllable morphology by template-engaged etching of Cu2O and their visible light photocatalytic performance. Applied Catalysis B: Environmental, 2015, 179, 458-467.	10.8	81
209	Mesoporous Pd@M (M=Pt, Au) microrods as excellent electrocatalysts for methanol oxidation. Nano Energy, 2015, 17, 111-119.	8.2	24
210	Palladium-nanoparticles on end-functionalized poly(lactic acid)-based stereocomplexes for the chemoselective cinnamaldehyde hydrogenation: Effect of the end-group. Journal of Catalysis, 2015, 330, 187-196.	3.1	27

#	Article	IF	Citations
211	Mechanistic Insight into the Facet-Dependent Adsorption of Methanol on a Pt₃Ni Nanocatalyst. Journal of Physical Chemistry C, 2015, 119, 18352-18363.	1.5	19
212	Novel AgBr/Ag₃PO₄ Decorated Ceria Nanoflake Composites for Enhanced Photocatalytic Activity toward Dyes and Bacteria under Visible Light. Industrial & Engineering Chemistry Research, 2015, 54, 8031-8042.	1.8	62
213	Support Morphology-Dependent Catalytic Activity of Pd/CeO₂ for Formaldehyde Oxidation. Environmental Science & Technology, 2015, 49, 8675-8682.	4.6	309
214	Methods and Structures for Self-assembly of Anisotropic 1D Nanocrystals. Nanoscience and Technology, 2015, , 27-68.	1.5	1
215	Ultrasensitive strategy based on PtPd nanodendrite/nano-flower-like@GO signal amplification for the detection of long non-coding RNA. Biosensors and Bioelectronics, 2015, 74, 214-221.	5.3	50
216	Efficient visible driven photocatalyst, silver phosphate: performance, understanding and perspective. Chemical Society Reviews, 2015, 44, 7808-7828.	18.7	406
217	Origin of the facet dependence in the hydrogenation catalysis of olefins: experiment and theory. Chemical Communications, 2015, 51, 12016-12019.	2.2	32
218	Room-Temperature Reactivity Of Silicon Nanocrystals With Solvents: The Case Of Ketone And Hydrogen Production From Secondary Alcohols: Catalysis?. ACS Applied Materials & Interfaces, 2015, 7, 13794-13800.	4.0	19
219	High oxygen storage capacity and enhanced catalytic performance of NiO/Ni_xCe_{1â^'x}O_{2â^'Î´} nanorods: synergy between Ni-doping and 1D morphology. RSC Advances, 2015, 5, 54571-54579.	1.7	33
220	Converting 2D inorganicâ€"organic ZnSeâ€"DETA hybrid nanosheets into 3D hierarchical nanosheet-based ZnSe microspheres with enhanced visible-light-driven photocatalytic performances. Nanoscale, 2015, 7, 9752-9759.	2.8	27
221	Anisotropic Shaped Iron Oxide Nanostructures: Controlled Synthesis and Proton Relaxation Shortening Effects. Chemistry of Materials, 2015, 27, 3505-3515.	3.2	153
222	Template-free construction of hollow Î±-Fe₂O₃ hexagonal nanocolumn particles with an exposed special surface for advanced gas sensing properties. Nanoscale, 2015, 7, 9416-9420.	2.8	77
223	Thermal conductivity enhancement in thermal grease containing different CuO structures. Nanoscale Research Letters, 2015, 10, 113.	3.1	33
224	Heterogeneous catalysis for green chemistry based on nanocrystals. National Science Review, 2015, 2, 150-166.	4.6	59
225	Recent advances in noble metal based composite nanocatalysts: colloidal synthesis, properties, and catalytic applications. Nanoscale, 2015, 7, 10559-10583.	2.8	150
226	Copper Nanocrystal Plane Effect on Stereoselectivity of Catalytic Deoxygenation of Aromatic Epoxides. Journal of the American Chemical Society, 2015, 137, 3791-3794.	6.6	50
227	Surface-Dependence of Defect Chemistry of Nanostructured Ceria. Journal of Physical Chemistry C, 2015, 119, 12423-12433.	1.5	64
228	Surface Chemistry and Catalytic Properties of Well-Defined Cu2O Nanocrystals. , 2015, , 1-29.		0

#	Article	IF	Citations
229	Electrochemical Fabrication of Well-Defined Spherical Iridium Nanoparticles and Electrocatalytic Activity towards Carbon Monoxide Adlayer Oxidation. Electrocatalysis, 2015, 6, 365-372.	1.5	4
230	Fabrication of Pd Nanoparticles Embedded C@Fe₃O₄ Coreâ€"Shell Hybrid Nanospheres: An Efficient Catalyst for Cyanation in Aryl Halides. ACS Applied Materials & Interfaces, 2015, 7, 22907-22917.	4.0	43
231	3D Flowerlike Î±-Fe₂O₃@TiO₂ Coreâ€"Shell Nanostructures: General Synthesis and Enhanced Photocatalytic Performance. ACS Sustainable Chemistry and Engineering, 2015, 3, 2975-2984.	3.2	184
232	Charge Density Modulated Shape-Dependent Electrocatalytic Activity of Gold Nanoparticles for the Oxidation of Ascorbic Acid. Journal of Physical Chemistry C, 2015, 119, 23103-23112.	1.5	29
233	Advances in nanoscale alloys and intermetallics: low temperature solution chemistry synthesis and application in catalysis. Dalton Transactions, 2015, 44, 18692-18717.	1.6	22
234	Crystal facet tailoring arts in perovskite oxides. Inorganic Chemistry Frontiers, 2015, 2, 965-981.	3.0	78
235	Controlled synthesis of concave cuboctahedral nitrogen-rich metalâ€"organic framework nanoparticles showing enhanced catalytic activation of epoxides with carbon dioxide. CrystEngComm, 2015, 17, 8596-8601.	1.3	23
236	Visible-light-driven Ag/AgCl plasmonic photocatalysts via a surfactant-assisted protocol: enhanced catalytic performance by morphology evolution from near-spherical to 1D structures. Physical Chemistry Chemical Physics, 2015, 17, 25182-25190.	1.3	12
237	Revealing the elemental-specific growth dynamics of Ptâ€"Cu multipods by scanning transmission electron microscopy and chemical mapping. Journal of Materials Chemistry A, 2015, 3, 21284-21289.	5.2	6
238	Exploring the energy landscape of Pt Au115â˜' nanoalloys. Computational and Theoretical Chemistry, 2015, 1074, 150-156.	1.1	4
239	PtAg bimetallic nanowires: Facile synthesis and their use as excellent electrocatalysts toward low-cost fuel cells. Nano Energy, 2015, 12, 105-114.	8.2	112
240	Superior photocatalytic activity of porous wurtzite ZnO nanosheets with exposed {0 0 1} facets and a charge separation model between polar (0 0 1) and (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 312 Td (xmlns:mml="ht	6.6	48
241	Tailoring the assembly, interfaces, and porosity of nanostructures toward enhanced catalytic activity. Chemical Communications, 2015, 51, 624-635.	2.2	41
242	Branched Au Nanostructures Enriched with a Uniform Facet: Facile Synthesis and Catalytic Performances. Scientific Reports, 2015, 4, 5259.	1.6	34
243	Hierarchically CdS Decorated 1D ZnO Nanorodsâ€"2D Graphene Hybrids: Low Temperature Synthesis and Enhanced Photocatalytic Performance. Advanced Functional Materials, 2015, 25, 221-229.	7.8	394
244	Kinetically-controlled growth of cubic and octahedral Rhâ€"Pd alloy oxygen reduction electrocatalysts with high activity and durability. Nanoscale, 2015, 7, 301-307.	2.8	31
245	Synthesis of Fe3O4-nanocatalysts with different morphologies and its promotion on shifting C5+ hydrocarbons for Fischerâ€"Tropsch synthesis. Catalysis Communications, 2015, 59, 211-215.	1.6	36
246	Charge separation between wurtzite ZnO polar {0 0 1} surfaces and their enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2015, 163, 189-197.	10.8	102

#	Article	IF	Citations
247	Shape/size controlling syntheses, properties and applications of two-dimensional noble metal nanocrystals. Frontiers of Chemical Science and Engineering, 2016, 10, 360-382.	2.3	17
248	Shape Engineering of Oxide Nanoparticles for Heterogeneous Catalysis. Chemistry - an Asian Journal, 2016, 11, 1470-1488.	1.7	47
249	Wide bandgap mesoporous hematite nanowire bundles as a sensitive and rapid response ethanol sensor. Nanotechnology, 2016, 27, 185702.	1.3	26
250	Theoretical study of crystal phase effect in heterogeneous catalysis. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2016, 6, 571-583.	6.2	36
251	Rapid, controllable growth of silver nanostructured surface-enhanced Raman scattering substrates for red blood cell detection. Scientific Reports, 2016, 6, 24503.	1.6	9
252	Concave Ptâ€“Cu nanocuboctahedrons with high-index facets and improved electrocatalytic performance. CrystEngComm, 2016, 18, 3216-3222.	1.3	24
253	Shape-Controlled Metal Nanocrystals for Heterogeneous Catalysis. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 327-348.	3.3	96
254	Asymmetric transfer hydrogenation of carbonyl compounds catalyzed by rhodium nanoparticles. Journal of Molecular Catalysis A, 2016, 420, 149-158.	4.8	9
255	Defect-Dominated Shape Recovery of Nanocrystals: A New Strategy for Trimetallic Catalysts. Springer Theses, 2016, , 71-91.	0.0	0
256	Crystallographic Facet-Induced Toxicological Responses by Faceted Titanium Dioxide Nanocrystals. ACS Nano, 2016, 10, 6062-6073.	7.3	53
257	Oxide Nanocrystal Model Catalysts. Accounts of Chemical Research, 2016, 49, 520-527.	7.6	184
258	Towards rational design of coreâ€“shell catalytic nanoreactor with high performance catalytic hydrogenation of levulinic acid. Catalysis Science and Technology, 2016, 6, 5102-5115.	2.1	50
259	Hydrophilic Pt nanoflowers: synthesis, crystallographic analysis and catalytic performance. CrystEngComm, 2016, 18, 3422-3427.	1.3	31
260	High catalytic activity of oxygen-induced (200) surface of Ta2O5 nanolayer towards durable oxygen evolution reaction. Nano Energy, 2016, 25, 60-67.	8.2	36
261	Single Phase PtAg Bimetallic Alloy Nanoparticles Highly Dispersed on Reduced Graphene Oxide for Electrocatalytic Application of Methanol Oxidation Reaction. Electrochimica Acta, 2016, 197, 117-125.	2.6	64
262	UV-induced epitaxial attachment of TiO₂ nanocrystals in molecularly mediated 1D and 2D alignments. Chemical Communications, 2016, 52, 7545-7548.	2.2	13
263	Polymer-templated mesoporous hybrid oxides of Al and Cu: highly porous sorbents for ammonia. RSC Advances, 2016, 6, 38662-38670.	1.7	3
264	Preparation of a Fe₃O₄â€“Auâ€“GO nanocomposite for simultaneous treatment of oil/water separation and dye decomposition. Nanoscale, 2016, 8, 17451-17457.	2.8	17

#	Article	IF	Citations
265	Ceria-Based Materials in Catalysis. Fundamental Theories of Physics, 2016, 50, 209-242.	0.1	37
266	Water bridge coordination on the metal-rich facets of Gd₂O₃nanoplates confers high T₁relaxivity. Nanoscale, 2016, 8, 17887-17894.	2.8	31
267	Crystal Shape Tailoring in Perovskite Structure Rare-Earth Ferrites REFeO₃ (RE = La, Pr, Sm,) Tj ETQq0 0 0 rgBT /Overlock 10 Design, 2016, 16, 6522-6530.	1.4	46
268	Impurity effects on solidâ€"solid transitions in atomic clusters. Nanoscale, 2016, 8, 18326-18340.	2.8	14
269	Highly Active Carbon Supported Pdâ€"Ag Nanofacets Catalysts for Hydrogen Production from HCOOH. ACS Applied Materials & Interfaces, 2016, 8, 20839-20848.	4.0	53
270	Enantioselective hydrogen transfer hydrogenation on rhodium colloid systems with optically active stabilizers. Russian Journal of General Chemistry, 2016, 86, 1240-1249.	0.3	4
271	Development of Hierarchical Polymer@Pd Nanowireâ€Network: Synthesis and Application as Highly Active Recyclable Catalyst and Printable Conductive Ink. ChemistryOpen, 2016, 5, 213-218.	0.9	31
272	Recent developments in copper-based, non-noble metal electrocatalysts for the oxygen reduction reaction. Chinese Journal of Catalysis, 2016, 37, 1049-1061.	6.9	59
273	Influence of the Copper(II) Oxide Dispersion on its Catalytic Properties in Carbon Monoxide Oxidation: A Comparative Study by Using Two Types of Catalytic Reactors. ChemCatChem, 2016, 8, 3546-3555.	1.8	13
274	Probing Surface Structures of CeO₂, TiO₂, and Cu₂O Nanocrystals with CO and CO₂ Chemisorption. Journal of Physical Chemistry C, 2016, 120, 21472-21485.	1.5	143
275	Low-temperature CO oxidation by Co3O4 nanocubes on the surface of Co(OH)2 nanosheets. Catalysis Communications, 2016, 86, 100-103.	1.6	15
276	Morphology effect of one-dimensional iron oxide nanocatalysts on Fischerâ€"Tropsch synthesis. Catalysis Science and Technology, 2016, 6, 7505-7511.	2.1	17
277	Morphology-dependent defect structures and photocatalytic performance of hydrogenated anatase TiO2 nanocrystals. Journal of Catalysis, 2016, 341, 126-135.	3.1	94
278	Mussel-inspired Functionalization of Cotton for Nano-catalyst Support and Its Application in a Fixed-bed System with High Performance. Scientific Reports, 2016, 6, 21904.	1.6	88
279	Controllable incoherent growth of a surface toward gold nanocrystals with regular multi-bumps. CrystEngComm, 2016, 18, 4713-4719.	1.3	0
280	Low-Temperature Methane Combustion over Pd/H-ZSM-5: Active Pd Sites with Specific Electronic Properties Modulated by Acidic Sites of H-ZSM-5. ACS Catalysis, 2016, 6, 8127-8139.	5.5	212
281	CeO₂ nanorods anchored on mesoporous carbon as an efficient catalyst for imine synthesis. Chemical Communications, 2016, 52, 13495-13498.	2.2	49
282	Voltage Controlled Rupturing of TiO₂ Nanotubes for Gas Sensor Device Applications: Correlation With Surface and Edge Energy. IEEE Transactions on Electron Devices, 2016, 63, 4933-4938.	1.6	7

#	Article	IF	Citations
283	Shapeâ€Controlled Synthesis of Trimetallic Nanoclusters: Structure Elucidation and Properties Investigation. Chemistry - A European Journal, 2016, 22, 17145-17150.	1.7	67
284	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. Nature Communications, 2016, 7, 12876.	5.8	568
285	Amorphous nickel boride membrane on a platinumâ€"nickel alloy surface for enhanced oxygen reduction reaction. Nature Communications, 2016, 7, 12362.	5.8	190
286	Rational design and synthesis of noble-metal nanoframes for catalytic and photonic applications. National Science Review, 2016, 3, 520-533.	4.6	63
287	CO Dissociation on Face-Centered Cubic and Hexagonal Close-Packed Nickel Catalysts: A First-Principles Study. Journal of Physical Chemistry C, 2016, 120, 24895-24903.	1.5	52
288	Defectâ€Rich Metal Nanocrystals in Catalysis. ChemCatChem, 2016, 8, 480-485.	1.8	33
289	Synthesis of Nitrogenâ€Doped Porous Carbon Nanocubes as a Catalyst Support for Methanol Oxidation. ChemCatChem, 2016, 8, 1901-1904.	1.8	17
290	Unveiling the active sites of graphene-catalyzed peroxymonosulfate activation. Carbon, 2016, 107, 371-378.	5.4	359
291	Platelike Ag 2 Nb 4 O 11 mesocrystals: Soft chemical synthesis, formation mechanism and enhanced photocatalytic performance. Journal of Alloys and Compounds, 2016, 686, 48-54.	2.8	16
292	Effect of sodium nitrate on microwave-assisted synthesis of ceria nanocubes. Materials Letters, 2016, 178, 71-74.	1.3	17
293	Effects of Morphology of Cerium Oxide Catalysts for Reverse Water Gas Shift Reaction. Catalysis Letters, 2016, 146, 770-777.	1.4	66
294	Controlling the alloy composition of PtNi nanocrystals using solid-state dewetting of bilayer films. Journal of Alloys and Compounds, 2016, 667, 141-145.	2.8	18
295	Covalent triazine framework-supported palladium as a ligand-free catalyst for the selective double carbonylation of aryl iodides under ambient pressure of CO. Chemical Communications, 2016, 52, 2960-2963.	2.2	60
296	Facet-defined AgCl nanocrystals with surface-electronic-structure-dominated photoreactivities. Nano Energy, 2016, 19, 8-16.	8.2	38
297	One-step synthesis of hollow porous gold nanoparticles with tunable particle size for the reduction of 4-nitrophenol. Journal of Hazardous Materials, 2016, 310, 89-97.	6.5	148
299	A facile surfactant-free synthesis of Rh flower-like nanostructures constructed from ultrathin nanosheets and their enhanced catalytic properties. Nano Research, 2016, 9, 849-856.	5.8	56
300	Indented Cu₂MoS₄ nanosheets with enhanced electrocatalytic and photocatalytic activities realized through edge engineering. Physical Chemistry Chemical Physics, 2016, 18, 6713-6721.	1.3	47
301	Biopanning and characterization of peptides with Fe3O4 nanoparticles-binding capability via phage display random peptide library technique. Colloids and Surfaces B: Biointerfaces, 2016, 141, 537-545.	2.5	22

#	Article	IF	Citations
302	Oxidative dehydrogenation of isobutane over vanadia catalysts supported by titania nanoshapes. Catalysis Today, 2016, 263, 84-90.	2.2	17
303	Formation of silver single crystal polyhedra with high catalytic activity toward oxidation of ascorbic acid in highly ordered SiO 2 cavities. Journal of Electroanalytical Chemistry, 2016, 768, 41-46.	1.9	5
304	Nucleation-mediated synthesis and enhanced catalytic properties of Auâ€"Pd bimetallic tripods and bipyramids with twinned structures and high-energy facets. Nanoscale, 2016, 8, 2819-2825.	2.8	14
305	Crystal growth of Bi2Te3 and noble cleaved (0001) surface properties. Journal of Solid State Chemistry, 2016, 236, 203-208.	1.4	31
306	Synthesis of perovskite-based nanocomposites for deNO_x catalytic activity. Canadian Journal of Chemistry, 2016, 94, 215-220.	0.6	2
307	Preparation of hollow multiple-Ag-nanoclustes-C-shell nanostructures and their catalytic properties. Applied Catalysis B: Environmental, 2016, 180, 13-19.	10.8	31
308	Chemical Insights into the Design and Development of Face-Centered Cubic Ruthenium Catalysts for Fischerâ€"Tropsch Synthesis. Journal of the American Chemical Society, 2017, 139, 2267-2276.	6.6	147
309	Enhancing the Sensing Properties of TiO₂ Nanosheets with Exposed {001} Facets by a Hydrogenation and Sensing Mechanism. Inorganic Chemistry, 2017, 56, 1504-1510.	1.9	50
310	Spatial charge separation between wurtzite CdS polar (0001) and (000<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 437 Td (xmlns visible-light photocatalytic activity. Journal of Alloys and Compounds, 2017, 700, 138-148.	2.8	10
311	Surface Coordination Chemistry of Metal Nanomaterials. Journal of the American Chemical Society, 2017, 139, 2122-2131.	6.6	522
312	Synthesized MoSe2/TiO2 heterogeneous structure as the promising photocatalytic material: Studies from theory to experiment. Journal of Applied Physics, 2017, 121, .	1.1	19
313	Heterojunction Photocatalysts. Advanced Materials, 2017, 29, 1601694.	11.1	3,143
314	IR spectroscopic investigations of chemical and photochemical reactions on metal oxides: bridging the materials gap. Chemical Society Reviews, 2017, 46, 1875-1932.	18.7	165
315	Shape transformation of {hk0}-faceted Pt nanocrystals from a tetrahexahedron into a truncated ditetragonal prism. Chemical Communications, 2017, 53, 3236-3238.	2.2	17
316	Visible-light photocatalysis in CdTe nanoflakes with exposed {111} facets and charge separation between polar CdTe {111}surfaces. Applied Catalysis B: Environmental, 2017, 208, 94-103.	10.8	15
317	A situ hydrothermal synthesis of a two-dimensional MoS2/TiO2 heterostructure composite with exposed (001) facets and its visible-light photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2017, 28, 9003-9010.	1.1	27
318	Green synthesis of bimetallic Pt@Cu nanostructures for catalytic oxidative desulfurization of model oil. Journal of Nanostructure in Chemistry, 2017, 7, 159-170.	5.3	32
319	Shape Effect of MnOx-Decorated CeO2 Catalyst in Diesel Soot Oxidation. Bulletin of the Chemical Society of Japan, 2017, 90, 556-564.	2.0	20

#	Article	IF	Citations
320	An In situ TEM study of the surface oxidation of palladium nanocrystals assisted by electron irradiation. Nanoscale, 2017, 9, 6327-6333.	2.8	68
321	Deposition of carbon species on the surface of metal: As a poison or a promoter for the long-term stability of Ni/SiO 2 methanation catalyst?. Chemical Engineering Journal, 2017, 322, 339-345.	6.6	17
322	Composites derived from exfoliated Laponite and Mn-Al hydrotalcite prepared in inverse microemulsion: A new strategy for design of robust VOCs combustion catalysts. Applied Catalysis B: Environmental, 2017, 211, 46-56.	10.8	38
323	Shape-Controlled Metal-Free Catalysts: Facet-Sensitive Catalytic Activity Induced by the Arrangement Pattern of Noncovalent Supramolecular Chains. ACS Nano, 2017, 11, 4866-4876.	7.3	31
324	Sphere-Shaped Mn₃O₄ Catalyst with Remarkable Low-Temperature Activity for Methylâ€"Ethylâ€"Ketone Combustion. Environmental Science & Technology, 2017, 51, 6288-6297.	4.6	165
325	Circular-to-elliptical-to-circular shape transitions of strained islands. Thin Solid Films, 2017, 631, 189-192.	0.8	0
326	Ozonation of dimethyl phthalate catalyzed by highly active Cu O-Fe3O4 nanoparticles prepared with zero-valent iron as the innovative precursor. Environmental Pollution, 2017, 227, 73-82.	3.7	38
327	Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. ACS Catalysis, 2017, 7, 388-397.	5.5	260
328	Facet Effect of Single-Crystalline Pd Nanocrystals for Aerobic Oxidation of 5-Hydroxymethyl-2-furfural. ACS Catalysis, 2017, 7, 421-432.	5.5	85
329	4â€Nitrophenol Reduction by a Single Platinum Palladium Nanocube Caged within a Nitrogenâ€Doped Hollow Carbon Nanosphere. ChemCatChem, 2017, 9, 980-986.	1.8	54
330	Improved Oxidase Mimetic Activity by Praseodymium Incorporation into Ceria Nanocubes. ACS Applied Materials & Interfaces, 2017, 9, 18595-18608.	4.0	71
331	Nanostructured Fe2O3 dispersed on SiO2 as catalyst for high temperature sulfuric acid decompositionâ€"Structural and morphological modifications on catalytic use and relevance of Fe2O3-SiO2 interactions. Applied Catalysis B: Environmental, 2017, 217, 154-168.	10.8	65
333	Synthesis of Cubic-Shaped Pt Particles with (100) Preferential Orientation by a Quick, One-Step and Clean Electrochemical Method. ACS Applied Materials & Interfaces, 2017, 9, 18856-18864.	4.0	39
334	Ceria Catalysts at Nanoscale: How Do Crystal Shapes Shape Catalysis?. ACS Catalysis, 2017, 7, 4716-4735.	5.5	526
335	Activated Surface Chargeâ€Reversal Manganese Oxide Nanocubes with High Surfaceâ€toâ€Volume Ratio for Accurate Magnetic Resonance Tumor Imaging. Advanced Functional Materials, 2017, 27, 1700978.	7.8	53
336	Surface chemistry of group IB metals and related oxides. Chemical Society Reviews, 2017, 46, 1977-2000.	18.7	51
337	ZnO powders as multi-facet single crystals. Physical Chemistry Chemical Physics, 2017, 19, 10622-10628.	1.3	12
338	Shaping Gold Nanocrystals in Dimethyl Sulfoxide: Toward Trapezohedral and Bipyramidal Nanocrystals Enclosed by {311} Facets. Journal of the American Chemical Society, 2017, 139, 5817-5826.	6.6	48

#	Article	IF	Citations
339	Controlled Growth of Monodisperse Ferrite Octahedral Nanocrystals for Biomass-Derived Catalytic Applications. ACS Catalysis, 2017, 7, 2948-2955.	5.5	40
340	Surface Faceting and Reconstruction of Ceria Nanoparticles. Angewandte Chemie - International Edition, 2017, 56, 375-379.	7.2	185
341	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. Advanced Materials, 2017, 29, 1604607.	11.1	224
342	Scaleâ€"Activity Relationship of MnO_x-FeO_y Nanocage Catalysts Derived from Prussian Blue Analogues for Low-Temperature NO Reduction: Experimental and DFT Studies. ACS Applied Materials & Interfaces, 2017, 9, 2581-2593.	4.0	149
343	Carbon induced selective regulation of cobalt-based Fischerâ€"Tropsch catalysts by ethylene treatment. Faraday Discussions, 2017, 197, 207-224.	1.6	17
344	Sheet-like and truncated-dodecahedron-like AgI structures via a surfactant-assisted protocol and their morphology-dependent photocatalytic performance. Physical Chemistry Chemical Physics, 2017, 19, 837-845.	1.3	14
345	The role of CO2 in dehydrogenation of ethylbenzene over pure Î±-Fe2O3 catalysts with different facets. Journal of Catalysis, 2017, 345, 104-112.	3.1	28
346	Achievement of safer palladium nanocrystals by enlargement of {100} crystallographic facets. Nanotoxicology, 2017, 11, 907-922.	1.6	11
347	Reaction Sensitivity of Ceria Morphology Effect on Ni/CeO₂ Catalysis in Propane Oxidation Reactions. ACS Applied Materials & Interfaces, 2017, 9, 35897-35907.	4.0	105
348	Oxygen vacancy clusters essential for the catalytic activity of CeO2 nanocubes for o-xylene oxidation. Scientific Reports, 2017, 7, 12845.	1.6	75
349	Facile Synthesis of Ru-Based Octahedral Nanocages with Ultrathin Walls in a Face-Centered Cubic Structure. Chemistry of Materials, 2017, 29, 9227-9237.	3.2	55
350	Particle Size and Crystal Phase Effects in Fischer-Tropsch Catalysts. Engineering, 2017, 3, 467-476.	3.2	87
351	Distinguishing faceted oxide nanocrystals with 17O solid-state NMR spectroscopy. Nature Communications, 2017, 8, 581.	5.8	48
352	The most active Cu facet for low-temperature water gas shift reaction. Nature Communications, 2017, 8, 488.	5.8	141
353	Nanobubbles: An Effective Way to Study Gas-Generating Catalysis on a Single Nanoparticle. Journal of the American Chemical Society, 2017, 139, 14277-14284.	6.6	71
354	Enhanced and durable electrocatalytic performance of thin layer PtRu bimetallic alloys on Pd-nanocubes for methanol oxidation reactions. Catalysis Science and Technology, 2017, 7, 3283-3290.	2.1	20
355	Hydrochar-Supported, in Situ-Generated Nickel Nanoparticles for Sorption-Enhanced Catalytic Gasification of Sewage Sludge. ACS Sustainable Chemistry and Engineering, 2017, 5, 7613-7622.	3.2	34
356	Icosahedral nanocrystals of noble metals: Synthesis and applications. Nano Today, 2017, 15, 121-144.	6.2	83

#	Article	IF	Citations
357	Phaseâ€controlled growth of cubic phase CuO nanoparticles by chemical vapor deposition. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700041.	0.8	15
358	A study of degradation phenomenon of Niâ€"Pt/CeO2 catalyst towards hydrogen generation from hydrous hydrazine. International Journal of Hydrogen Energy, 2017, 42, 16355-16361.	3.8	24
359	Cobaltâ€Tungstenâ€Boron as an Active Electrocatalyst for Water Electrolysis. ChemistrySelect, 2017, 2, 6187-6193.	0.7	33
360	Synthesis of Ti3+ and P5+ co-doped TiO2 nanocrystal with enhanced visible light photocatalytic activity. Catalysis Communications, 2017, 102, 1-4.	1.6	11
361	OberflÃchenfacettierung und Rekonstruktion von Ceroxidâ€Nanopartikeln. Angewandte Chemie, 2017, 129, 382-387.	1.6	14
362	One-Pot Synthesis of Size- and Composition-Controlled Ni-Rich NiPt Alloy Nanoparticles in a Reverse Microemulsion System and Their Application. ACS Applied Materials & Interfaces, 2017, 9, 30643-30653.	4.0	13
363	Isolable C@Fe3O4 nanospheres supported cubical Pd nanoparticles as reusable catalysts for Stille and Mizoroki-Heck coupling reactions. Tetrahedron Letters, 2017, 58, 3276-3282.	0.7	25
364	Carbon dots decorated the exposing high-reactive (111) facets CoO octahedrons with enhanced photocatalytic activity and stability for tetracycline degradation under visible light irradiation. Applied Catalysis B: Environmental, 2017, 219, 36-44.	10.8	96
365	The Surface Chemistry of Metal-Based Hydrogenation Catalysis. ACS Catalysis, 2017, 7, 4947-4967.	5.5	145
366	Structure Tuning of Bi₂MoO₆ and Their Enhanced Visible Light Photocatalytic Performances. Critical Reviews in Solid State and Materials Sciences, 2017, 42, 347-372.	6.8	56
367	In situ TEM observation of dissolution and regrowth dynamics of MoO2 nanowires under oxygen. Nano Research, 2017, 10, 397-404.	5.8	16
368	Facetâ€Engineered Surface and Interface Design of Photocatalytic Materials. Advanced Science, 2017, 4, 1600216.	5.6	307
369	Studies on the Electrochemical Stability of Preferentially (100)â€Oriented Pt Prepared through Three Different Methods. ChemElectroChem, 2017, 4, 66-74.	1.7	7
370	The recent progress and future of oxygen reduction reaction catalysis: A review. Renewable and Sustainable Energy Reviews, 2017, 69, 401-414.	8.2	300
371	Supported Cobalt Nanorod Catalysts for Carbon Dioxide Hydrogenation. Energy Technology, 2017, 5, 884-891.	1.8	17
372	New insights into the support morphology-dependent ammonia synthesis activity of Ru/CeO₂catalysts. Catalysis Science and Technology, 2017, 7, 191-199.	2.1	136
373	Crystal facet-dependent reactivity of Î±-Mn2O3 microcrystalline catalyst for soot combustion. Applied Catalysis B: Environmental, 2017, 204, 374-384.	10.8	141
374	Methanobactinâ€mediated synthesis of bimetallic Auâ€"Pd/Al 2 O 3 toward an efficient catalyst for glucose oxidation. IET Nanobiotechnology, 2017, 11, 512-516.	1.9	5

#	Article	IF	Citations
375	Engineering Surface Ligands of Noble Metal Nanocatalysts in Tuning the Product Selectivity. Catalysts, 2017, 7, 44.	1.6	50
376	Discovering and Utilizing Structure Sensitivity. Studies in Surface Science and Catalysis, 2017, 177, 613-641.	1.5	1
377	Poly-l-lysine mediated synthesis of palladium nanochain networks and nanodendrites as highly efficient electrocatalysts for formic acid oxidation and hydrogen evolution. Journal of Colloid and Interface Science, 2018, 516, 325-331.	5.0	36
378	Silverâ€Assisted Synthesis of Gold Nanorods: the Relation between Silver Additive and Iodide Impurities. Small, 2018, 14, e1703879.	5.2	30
379	Noble Metal Electrocatalysts for Anode and Cathode in Polymer Electrolyte Fuel Cells. , 2018, , 171-197.		1
380	Auâ€"Pd NPs immobilised on nanostructured ceria and titania: impact of support morphology on the catalytic activity for selective oxidation. Catalysis Science and Technology, 2018, 8, 2529-2539.	2.1	37
381	NanoMOFs: little crystallites for substantial applications. Journal of Materials Chemistry A, 2018, 6, 7338-7350.	5.2	79
382	Modeling the characteristic etch morphologies along specific crystallographic orientations by anisotropic chemical etching. AIP Advances, 2018, 8, 025214.	0.6	1
383	Chemistry of Hume-Rothery inspired organometallics: Selective functionalization of [M(ZnCp*) 4 (ZnCH 3) 4] (MÂ= Ni, Pd, Pt) with terminal alkynes to yield [M(ZnCp*) 4 (ZnCCSi i Pr) 4]. Journal of Organometallic Chemistry, 2018, 860, 78-84.	0.8	10
384	Insights into the high performance of Mn-Co oxides derived from metal-organic frameworks for total toluene oxidation. Journal of Hazardous Materials, 2018, 349, 119-127.	6.5	191
385	Crystal-plane effects of MFI zeolite in catalytic conversion of methanol to hydrocarbons. Journal of Catalysis, 2018, 360, 89-96.	3.1	58
386	Directed self-assembly of dual metal ions with ligands: towards the synthesis of noble metal/metal oxide composites with controlled facets. Chemical Communications, 2018, 54, 2044-2047.	2.2	4
387	Surface/Interfacial Catalysis of (Metal)/Oxide System: Structure and Performance Control. ChemCatChem, 2018, 10, 2125-2163.	1.8	28
388	Nanostructured equimolar ceria-praseodymia for NOx-assisted soot oxidation: Insight into Pr dominance over Pt nanoparticles and metalâ€"support interaction. Applied Catalysis B: Environmental, 2018, 226, 147-161.	10.8	66
389	Surface step decoration of isolated atom as electron pumping: Atomic-level insights into visible-light hydrogen evolution. Nano Energy, 2018, 45, 109-117.	8.2	118
390	Influence of copper oxide grown on various conducting substrates towards improved performance for photoelectrocatalytic bacterial inactivation. Molecular Catalysis, 2018, 451, 161-169.	1.0	14
391	Unlocking the door to highly active ORR catalysts for PEMFC applications: polyhedron-engineered Pt-based nanocrystals. Energy and Environmental Science, 2018, 11, 258-275.	15.6	367
392	Unsupported shaped cobalt nanoparticles as efficient and recyclable catalysts for the solvent-free acceptorless dehydrogenation of alcohols. Catalysis Science and Technology, 2018, 8, 562-572.	2.1	20

#	Article	IF	Citations
393	Facet-dependent photocatalysis of nanosize semiconductive metal oxides and progress of their characterization. Nano Today, 2018, 18, 15-34.	6.2	99
394	Template-free hydrothermal synthesis and luminescence properties of NaGd(WO4)2:Eu3+ red phosphors with controlled morphology. Journal of Materials Science: Materials in Electronics, 2018, 29, 5034-5041.	1.1	5
396	Simple synthesis and surface facet-tuning of ultrathin alloy-shells of Au@AuPd nanoparticles via silver-assisted co-reduction onto facet-controlled Au nanoparticles. Journal of Materials Chemistry A, 2018, 6, 7675-7685.	5.2	28
397	Optimum Particle Size for Gold-Catalyzed CO Oxidation. Journal of Physical Chemistry C, 2018, 122, 8327-8340.	1.5	45
398	Shape dependence and sulfate promotion of CeO2 for selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2018, 232, 246-259.	10.8	160
399	Crystal Engineering for Catalysis. Annual Review of Chemical and Biomolecular Engineering, 2018, 9, 283-309.	3.3	37
400	Carbon Capture by Metal Oxides: Unleashing the Potential of the (111) Facet. Journal of the American Chemical Society, 2018, 140, 4736-4742.	6.6	83
401	A Universal Method to Engineer Metal Oxideâ€"Metalâ€"Carbon Interface for Highly Efficient Oxygen Reduction. ACS Nano, 2018, 12, 3042-3051.	7.3	125
402	One-step green synthesis of silver nanobelts assisted by sodium carboxymethylcellulose for catalytic reduction of 4-nitrophenol. CrystEngComm, 2018, 20, 2135-2143.	1.3	11
403	Computational insights into crystal plane dependence of thermal and photoresponse of pure and palladium-substituted titania. Computational Materials Science, 2018, 143, 528-541.	1.4	4
404	Sonochemical fabrication of reduced graphene oxide supported Au nano dendrites for ethanol electrooxidation in alkaline medium. Catalysis Today, 2018, 307, 308-317.	2.2	20
405	Insight into the Role of Pd State on Pdâ€Based Catalysts in oâ€Xylene Oxidation at Low Temperature. ChemCatChem, 2018, 10, 998-1004.	1.8	28
406	Influence of Carbon Support on Catalytic Layer Performance of Proton Exchange Membrane Fuel Cells. Electrocatalysis, 2018, 9, 22-30.	1.5	15
407	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. Applied Catalysis B: Environmental, 2018, 220, 626-634.	10.8	428
408	Crystal-plane engineering of NiCo2O4 electrocatalysts towards efficient overall water splitting. Journal of Catalysis, 2018, 357, 238-246.	3.1	158
409	Insight of DFT and ab initio atomistic thermodynamics on the surface stability and morphology of In2O3. Applied Surface Science, 2018, 434, 1344-1352.	3.1	46
410	Facile synthesis of ultrafine cobalt oxides embedded into N-doped carbon with superior activity in hydrogenation of 4-nitrophenol. Journal of Colloid and Interface Science, 2018, 512, 844-852.	5.0	58
411	Morphology-dependent catalytic properties of nanocupric oxides in the Rochow reaction. Nano Research, 2018, 11, 804-819.	5.8	26

#	Article	IF	Citations
412	Dynamical and Structural Characterization of the Adsorption of Fluorinated Alkane Chains onto CeO₂. Journal of Physical Chemistry C, 2018, 122, 23405-23413.	1.5	3
413	From nanoparticles to mesoporous materials. Frontiers of Nanoscience, 2018, , 129-144.	0.3	0
414	Titania-morphology-dependent dual-perimeter-sites catalysis by Au/TiO2 catalysts in low-temperature CO oxidation. Journal of Catalysis, 2018, 368, 163-171.	3.1	47
415	Elucidation of Tip-Broadening Effect in Tip-Enhanced Raman Spectroscopy (TERS): A Cause of Artifacts or Potential for 3D TERS. Journal of Physical Chemistry C, 2018, 122, 24334-24340.	1.5	26
416	The surface science of nanoparticles for catalysis: electronic and steric effects of organic ligands. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	16
417	Facet-controlled morphology of cobalt disulfide towards enhanced oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 22545-22554.	5.2	41
418	Fe2O3 hollow microspheres as highly selective catalysts for the production of Î±-olefins. New Journal of Chemistry, 2018, 42, 17923-17930.	1.4	4
419	Controllable dynamics of oxygen vacancies through extrinsic doping for superior catalytic activities. Nanoscale, 2018, 10, 18576-18585.	2.8	37
420	Facet effect of Co3O4 nanocrystals on visible-light driven water oxidation. Applied Catalysis B: Environmental, 2018, 237, 74-84.	10.8	88
421	Au₂₅(SR)₁₈: the captain of the great nanocluster ship. Nanoscale, 2018, 10, 10758-10834.	2.8	253
422	In-situ incorporation of carbon dots into mesoporous nickel boride for regulating photocatalytic activities. Carbon, 2018, 137, 484-492.	5.4	42
423	A mechanistic study of CO oxidation over spinel MnFe2O4 surface during chemical-looping combustion. Fuel, 2018, 230, 410-417.	3.4	35
424	MOFâ€Confined Subâ€2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as Highâ€Performance Catalysts for Selective Hydrogenation of Acetylene. Advanced Materials, 2018, 30, e1801878.	11.1	133
425	Direct Molten Polymerization Synthesis of Highly Active Samarium Manganese Perovskites with Different Morphologies for VOC Removal. Inorganic Chemistry, 2018, 57, 8451-8457.	1.9	53
426	Ru Nanospheres in Water Drops for Enhanced Catalytic Performances in Selective Hydrogenation. ACS Applied Energy Materials, 2018, 1, 4277-4284.	2.5	12
427	Interfacial Chemistry of Low-Dimensional Systems for Applications in Nanocatalysis. European Journal of Inorganic Chemistry, 2018, 2018, 4311-4321.	1.0	6
428	Machine learning hydrogen adsorption on nanoclusters through structural descriptors. Npj Computational Materials, 2018, 4, .	3.5	156
429	The sensing reaction on the Ni-NiO (111) surface at atomic and molecule level and migration of electron. Sensors and Actuators B: Chemical, 2018, 273, 794-803.	4.0	19

#	Article	IF	Citations
430	When Crystals Go Nano â€“ The Role of Advanced Xâ€ray Total Scattering Methods in Nanotechnology. European Journal of Inorganic Chemistry, 2018, 2018, 3789-3803.	1.0	27
431	A Droplet-Reactor System Capable of Automation for the Continuous and Scalable Production of Noble-Metal Nanocrystals. Nano Letters, 2018, 18, 3879-3884.	4.5	48
432	Unraveling Kinetically-Driven Mechanisms of Gold Nanocrystal Shape Transformations Using Graphene Liquid Cell Electron Microscopy. Nano Letters, 2018, 18, 5731-5737.	4.5	64
433	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Wellâ€Controlled Surface Structures. Advanced Materials, 2018, 30, e1801956.	11.1	83
434	Visualizing Facet-Dependent Hydrogenation Dynamics in Individual Palladium Nanoparticles. Nano Letters, 2018, 18, 5357-5363.	4.5	31
435	Getting Insights into the Influence of Crystal Plane Effect of Shaped Ceria on Its Catalytic Performances. Journal of Physical Chemistry C, 2018, 122, 20402-20409.	1.5	35
436	Understanding the facet-dependent catalytic performance of hematite microcrystals in a CO oxidation reaction. Inorganic Chemistry Frontiers, 2018, 5, 2332-2339.	3.0	27
437	A simple, scalable approach for combining carbon dots with hexagonal nanoplates of nickel-based compounds for efficient photocatalytic reduction. Dalton Transactions, 2018, 47, 12694-12701.	1.6	3
438	Highly Active Surface Structure in Nanosized Spinel Cobalt-Based Oxides for Electrocatalytic Water Splitting. Journal of Physical Chemistry C, 2018, 122, 14447-14458.	1.5	24
439	Improving Catalytic Hydrogenation Performance of Pd Nanoparticles by Electronic Modulation Using Phosphine Ligands. ACS Catalysis, 2018, 8, 6476-6485.	5.5	148
440	Rational Design of Catalytic Centers in Crystalline Frameworks. Advanced Materials, 2018, 30, e1707582.	11.1	103
441	Electrical properties of nanocube CeO2 in advanced solid oxide fuel cells. International Journal of Hydrogen Energy, 2018, 43, 12909-12916.	3.8	87
442	Shape dependence of support for NO storage and reduction catalysts. Journal of Environmental Sciences, 2019, 75, 396-407.	3.2	6
443	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. Advanced Materials, 2019, 31, e1800426.	11.1	239
444	Role of well-defined cobalt crystal facets in Fischerâ€“Tropsch synthesis: a combination of experimental and theoretical studies. Chemical Communications, 2019, 55, 10559-10562.	2.2	19
445	An Environmental Transmission Electron Microscopy Study of the Stability of the TiO₂ (1) Tj ETQq1 1 0.784314 rgBT /Over	1.5	11
446	Adsorption of Acetate on Au(111): An inâ€situ Scanning Tunnelling Microscopy Study and Implications on Formic Acid Electrooxidation. ChemPhysChem, 2019, 20, 2989-2996.	1.0	10
447	Surfactant-free synthesis of porous Au by a urea complex. RSC Advances, 2019, 9, 23081-23085.	1.7	6

#	Article	IF	Citations
448	Enhancing Câ€"C Bond Scission for Efficient Ethanol Oxidation using PtIr Nanocube Electrocatalysts. ACS Catalysis, 2019, 9, 7618-7625.	5.5	79
449	Improved Photocatalytic Hydrogen Evolution of CdS Using Earth-Abundant Cocatalyst Mo₂N with Rod Shape and Large Capacitance. ACS Sustainable Chemistry and Engineering, 2019, 7, 13569-13575.	3.2	34
450	Surface chemistry and catalysis of oxide model catalysts from single crystals to nanocrystals. Surface Science Reports, 2019, 74, 100471.	3.8	99
451	Highly faceted layered orientation in SnSSe nanosheets enables facile Li+-Diffusion channels. Electrochimica Acta, 2019, 318, 937-948.	2.6	11
452	Interfacial Superâ€Assembled Porous CeO₂/C Frameworks Featuring Efficient and Sensitive Decomposing Li₂O₂ for Smart Liâ€"O₂ Batteries. Advanced Energy Materials, 2019, 9, 1901751.	10.2	71
453	Strain Relaxation-Induced Twin Interface Migration and Morphology Evolution of Silver Nanoparticles. Chemistry of Materials, 2019, 31, 842-850.	3.2	20
454	Thermal Reshaping of Gold Microplates: Three Possible Routes and Their Transformation Mechanisms. ACS Applied Materials & Interfaces, 2019, 11, 41813-41820.	4.0	9
455	Improved methane oxidation activity of P-doped Î³-Al2O3 supported palladium catalysts by tailoring the oxygen mobility and electronic properties. International Journal of Hydrogen Energy, 2019, 44, 27772-27783.	3.8	18
456	Anisotropic nanomaterials for shape-dependent physicochemical and biomedical applications. Chemical Society Reviews, 2019, 48, 5140-5176.	18.7	150
457	Controllable synthesis of Au nanocrystals with systematic shape evolution from an octahedron to a truncated ditetragonal prism and rhombic dodecahedron. CrystEngComm, 2019, 21, 5602-5609.	1.3	15
458	Self-assembly and wetting properties of gold nanorodâ€"CTAB molecules on HOPG. Beilstein Journal of Nanotechnology, 2019, 10, 696-705.	1.5	21
459	Electrocatalysis of Oxygen Reduction Reaction on Shape-Controlled Pt and Pd Nanoparticlesâ€"Importance of Surface Cleanliness and Reconstruction. Frontiers in Chemistry, 2019, 7, 648.	1.8	29
460	Isovalent bismuth ion-induced growth of highly-disperse Sb₂S₃ nanorods and their composite with p-CuSCN for self-powered photodetectors. CrystEngComm, 2019, 21, 554-562.	1.3	11
461	Size and shape controlled synthesis of rhodium nanoparticles. Heliyon, 2019, 5, e01165.	1.4	26
462	How to control selectivity in alkane oxidation?. Chemical Science, 2019, 10, 2429-2443.	3.7	28
463	Facile controlled synthesis of Ag₃PO₄ with various morphologies for enhanced photocatalytic oxygen evolution from water splitting. RSC Advances, 2019, 9, 18222-18231.	1.7	18
464	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. Applied Catalysis B: Environmental, 2019, 256, 117795.	10.8	117
465	Advanced on-site glucose sensing platform based on a new architecture of free-standing hollow Cu(OH)₂nanotubes decorated with CoNi-LDH nanosheets on graphite screen-printed electrode. Nanoscale, 2019, 11, 12655-12671.	2.8	63

#	Article	IF	Citations
466	ZnO supported on Cu2O{1â€¯0â€¯0} enhances charge transfer in dimethyldichlorosilane synthesis. Journal of Catalysis, 2019, 374, 284-296.	3.1	21
467	Morphologieâ€optimierte hochaktive und â€stabile Ru/TiO₂â€Katalysatoren fÃ¼r die selektive COâ€Methanisierung. Angewandte Chemie, 2019, 131, 10842-10847.	1.6	7
468	Morphologyâ€Engineered Highly Active and Stable Ru/TiO₂ Catalysts for Selective CO Methanation. Angewandte Chemie - International Edition, 2019, 58, 10732-10736.	7.2	81
469	Surface Reconstructions of Metal Oxides and the Consequences on Catalytic Chemistry. ACS Catalysis, 2019, 9, 5692-5707.	5.5	127
470	Plasmon-Enhanced Hydrogen Evolution on Specific Facet of Silver Nanocrystals. Chemistry of Materials, 2019, 31, 3722-3728.	3.2	33
471	Synthesis of platelet-like BiVO4 using hyperbranched polyethyleneimine for the formation of heterojunctions with Bi2O3. Applied Nanoscience (Switzerland), 2019, 9, 1501-1514.	1.6	12
472	Morphology evolution of fcc Ru nanoparticles under hydrogen atmosphere. Nanoscale, 2019, 11, 8037-8046.	2.8	18
473	Tailoring the photoluminescence of atomically precise nanoclusters. Chemical Society Reviews, 2019, 48, 2422-2457.	18.7	655
474	Understanding CeO₂â€Based Nanostructures through Advanced Electron Microscopy in 2D and 3D. Particle and Particle Systems Characterization, 2019, 36, 1800287.	1.2	22
475	Propanol-Triggered Luminescence for Rapid Screening of Crystal Facets in Noble Metal. Analytical Chemistry, 2019, 91, 4513-4519.	3.2	19
476	Bimetallic (Zn/Co) MOFs-Derived Highly Dispersed Metallic Co/HPC for Completely Hydrolytic Dehydrogenation of Ammoniaâ€“Borane. Industrial & Engineering Chemistry Research, 2019, 58, 7209-7216.	1.8	35
477	Efficient Catalysts of La₂O₃ Nanorod-Supported Pt Nanoparticles for Soot Oxidation: The Role of La₂O₃-{110} Facets. Industrial & Engineering Chemistry Research, 2019, 58, 7074-7084.	1.8	22
478	Photocorrosion Inhibition of Semiconductor-Based Photocatalysts: Basic Principle, Current Development, and Future Perspective. ACS Catalysis, 2019, 9, 4642-4687.	5.5	432
479	Selective oxidation of glycerol on morphology controlled ceria nanomaterials. Catalysis Science and Technology, 2019, 9, 2328-2334.	2.1	21
481	Improving sensing performance of the ZnO foam structure with exposed {001} facets by hydrogenation and sensing mechanism at molecule level. Applied Surface Science, 2019, 479, 646-654.	3.1	22
482	Controlled Synthesis of Spinel-Type Mesoporous Mnâ€“Co Rods for SCR of NO_x with NH₃ at Low Temperature. Industrial & Engineering Chemistry Research, 2019, 58, 3606-3617.	1.8	56
483	Hydrothermal synthesis of novel rhombic dodecahedral SnS nanocrystals for highly efficient photothermal therapy. Chemical Communications, 2019, 55, 2789-2792.	2.2	16
484	Anisotropic photogenerated charge separations between different facets of a dodecahedral Î±-Fe₂O₃ photocatalyst. CrystEngComm, 2019, 21, 6390-6395.	1.3	5

#	Article	IF	Citations
485	Surface Chemistry of CH2I2 on Clean, Hydrogen- and Carbon Monoxide-Covered Co(0001) Surfaces. Journal of Physical Chemistry C, 2019, 123, 7740-7748.	1.5	4
486	Persulfate non-radical activation by nano-CuO for efficient removal of chlorinated organic compounds: Reduced graphene oxide-assisted and CuO (0â€¯0â€¯1) facet-dependent. Chemical Engineering Journal, 2019, 356, 178-189.	6.6	129
487	Structurally modified CuFe₂O₄/persulfate process for acetaminophen scavenging: high efficiency with low catalyst addition. Journal of Chemical Technology and Biotechnology, 2019, 94, 785-794.	1.6	16
488	Insights into the crystal size and morphology of photocatalysts. Journal of Colloid and Interface Science, 2019, 538, 638-647.	5.0	22
489	Surface and interface design for heterogeneous catalysis. Physical Chemistry Chemical Physics, 2019, 21, 523-536.	1.3	49
490	Cubeâ€like LaFeO ₃ microstructures synthesised by a hydrothermal method and their optical properties. Micro and Nano Letters, 2019, 14, 259-262.	0.6	3
491	Colloidal nanocrystals for heterogeneous catalysis. Nano Today, 2019, 24, 15-47.	6.2	98
492	Synergistic effects in gas sensing semiconducting oxide nano-heterostructures: A review. Sensors and Actuators B: Chemical, 2019, 286, 624-640.	4.0	410
493	Role of aliphatic ligands and solvent composition in the solvothermal synthesis of iron oxide nanocrystals. Polyhedron, 2019, 157, 54-62.	1.0	12
494	Designed inorganic nanomaterials for intrinsic peroxidase mimics: A review. Sensors and Actuators B: Chemical, 2019, 283, 18-34.	4.0	74
495	Selective hydrogenation of cinnamaldehyde by unsupported and few layer graphene supported platinum concave nanocubes exposing {110} facets stabilized by a long-chain amine. Catalysis Today, 2020, 357, 166-175.	2.2	10
496	Selective Hydrogenation over Supported Metal Catalysts: From Nanoparticles to Single Atoms. Chemical Reviews, 2020, 120, 683-733.	23.0	871
497	Palladium Nanocatalysts Encapsulated on Porous Silica @ Magnetic Carbonâ€Coated Cobalt Nanoparticles for Sustainable Hydrogenation of Nitroarenes, Alkenes and Alkynes.. ChemCatChem, 2020, 12, 569-575.	1.8	20
498	Construction of hierarchical functional nanomaterials for energy conversion and storage. Particuology, 2020, 48, 34-47.	2.0	6
499	Rational Design of Agâ€Based Catalysts for the Electrochemical CO₂ Reduction to CO: A Review. ChemSusChem, 2020, 13, 39-58.	3.6	106
500	Synthesis of PdH0.43 nanocrystals with different surface structures and their catalytic activities towards formic acid electro-oxidation. Science China Materials, 2020, 63, 375-382.	3.5	19
501	Continuous Flow Routes toward Designer Metal Nanocatalysts. Advanced Energy Materials, 2020, 10, 1902051.	10.2	13
502	Equilibrium morphology evolution of FCC cobalt nanoparticle under CO and hydrogen environments. Applied Surface Science, 2020, 504, 144469.	3.1	9

#	Article	IF	Citations
503	Effects of alumina morphology on dry reforming of methane over Ni/Al₂O₃ catalysts. Catalysis Science and Technology, 2020, 10, 510-516.	2.1	38
504	Block copolymer-templated electrodeposition of mesoporous Au-Ni alloy films with tunable composition. Applied Materials Today, 2020, 18, 100526.	2.3	18
505	Well-Defined Materials for Heterogeneous Catalysis: From Nanoparticles to Isolated Single-Atom Sites. Chemical Reviews, 2020, 120, 623-682.	23.0	794
506	Supramolecular confinement of single Cu atoms in hydrogel frameworks for oxygen reduction electrocatalysis with high atom utilization. Materials Today, 2020, 35, 78-86.	8.3	88
507	Selective oxidation using Au-Pd catalysts: Role of the support in the stabilization of colloidal Au-Pd NPs. Catalysis Today, 2020, 348, 203-211.	2.2	8
508	CoO_x-decorated CeO₂ heterostructures: effects of morphology on their catalytic properties in diesel soot combustion. Nanoscale, 2020, 12, 1779-1789.	2.8	37
509	Enhancing gas sensitivity of CdO octahedrons having {111} facets by hydrogenation and sensing mechanism of 3-coordinated Cd atoms as the reactive centers. Applied Surface Science, 2020, 506, 144868.	3.1	9
510	Effect of Cu Preferential Orientation on the Microstructure and Properties of Anodized Cu_xO Films. European Journal of Inorganic Chemistry, 2020, 2020, 261-268.	1.0	10
511	Catalysis with Colloidal Ruthenium Nanoparticles. Chemical Reviews, 2020, 120, 1085-1145.	23.0	137
512	Thermodynamic Evolution of Cerium Oxide Nanoparticle Morphology Using Carbon Dioxide. Journal of Physical Chemistry C, 2020, 124, 23210-23220.	1.5	13
513	Controlling palladium morphology in electrodeposition from nanoparticles to dendritesviathe use of mixed solvents. Nanoscale, 2020, 12, 21757-21769.	2.8	9
514	Recent Progress in Engineering the Atomic and Electronic Structure of Electrocatalysts via Cation Exchange Reactions. Advanced Materials, 2020, 32, e2001866.	11.1	101
515	Preserving the shape of silver nanocubes under corrosive environment by covering their edges and corners with iridium. Nanoscale, 2020, 12, 20859-20867.	2.8	6
516	Steering Hollow Multishelled Structures in Photocatalysis: Optimizing Surface and Mass Transport. Advanced Materials, 2020, 32, e2002556.	11.1	116
517	Hydrothermal Synthesis of Euhedral Co₃O₄ Nanocrystals via Nutrient-Assisted Topotactic Transformation of the Layered Co(OH)₂ Precursor under Anoxic Conditions: Insights into Intricate Routes Leading to Spinel Phase Development and Shape Perfection. Crystal Growth and Design, 2020, 20, 7771-7787.	1.4	9
518	Toward Informed Design of Nanomaterials: A Mechanistic Analysis of Structureâ€"Propertyâ€"Function Relationships for Faceted Nanoscale Metal Oxides. ACS Nano, 2020, 14, 16472-16501.	7.3	41
519	Recent Advances in Synthesis of Metalâ€"Carbon Nanocomposites and Their Application in Catalytic Hydrogenation Reactions. ACS Symposium Series, 2020, , 403-458.	0.5	1
520	Atomically precise alloy nanoclusters: syntheses, structures, and properties. Chemical Society Reviews, 2020, 49, 6443-6514.	18.7	407

#	Article	IF	Citations
521	Preparation of Anisotropic MnO2 Nanocatalysts for Selective Oxidation of Benzyl Alcohol and 5-Hydroxymethylfurfural. Transactions of Tianjin University, 2020, 26, 382-390.	3.3	8
522	Regulation of intrinsic physicochemical properties of metal oxide nanomaterials for energy conversion and environmental detection applications. Journal of Materials Chemistry A, 2020, 8, 17326-17359.	5.2	33
523	Large-scale and facile synthesis of a porous high-entropy alloy CrMnFeCoNi as an efficient catalyst. Journal of Materials Chemistry A, 2020, 8, 18318-18326.	5.2	37
524	Adsorption of NO₂ and NO₃ on Cobalt Spinel Nanocubes and Interfacial Dynamics of the Resultant NO_x Adspecies (x = 1, 2, and 3): DFT, Atomistic Thermodynamic, IR, and Isotopic Exchange Study. Journal of Physical Chemistry C, 2020, 124, 19681-19697.	1.5	9
525	Surface Coordination Chemistry of Atomically Dispersed Metal Catalysts. Chemical Reviews, 2020, 120, 11810-11899.	23.0	325
526	Atomically Precise Nanocrystals. Journal of the American Chemical Society, 2020, 142, 15627-15637.	6.6	45
527	Recent Advances in Supported Metal Catalysts and Oxide Catalysts for the Reverse Water-Gas Shift Reaction. Frontiers in Chemistry, 2020, 8, 709.	1.8	71
528	A Density Functional Theory Study on the Mechanism of Complete Ethanol Oxidation on Ir(100): Surface Diffusion-Controlled Câ€“C Bond Cleavage. Journal of Physical Chemistry C, 2020, 124, 26953-26964.	1.5	22
529	High-Index-Facet- and High-Surface-Energy Nanocrystals of Metals and Metal Oxides as Highly Efficient Catalysts. Joule, 2020, 4, 2562-2598.	11.7	136
530	A Review on Particle Size Effect in <scp>Metalâ€Catalyzed</scp> Heterogeneous Reactions. Chinese Journal of Chemistry, 2020, 38, 1422-1444.	2.6	69
531	Synthesis in Silica Nanoreactor: Copper Pyrophosphate Quantum Dots and Silver Oxide Nanocrystallites Inside Silica Mezochannels. Materials, 2020, 13, 2009.	1.3	5
532	A photocatalytic transformation realized by Pd/TiO2 particle size modulation: from oxidative dehydrogenation of ethane to direct dehydrogenation of ethane. Chemical Engineering Journal, 2020, 395, 125120.	6.6	19
533	Rational Catalyst Design for N₂ Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. ACS Catalysis, 2020, 10, 6870-6899.	5.5	273
534	Facettierte verzweigte Nickelâ€Nanopartikel mit variierbarer VerzweigungslÃnge fÃ¼r die hochaktive elektrokatalytische Oxidation von Biomasse. Angewandte Chemie, 2020, 132, 15615-15620.	1.6	18
535	Synergistic effects of octahedral TiO2-MIL-101(Cr) with two heterojunctions for enhancing visible-light photocatalytic degradation of liquid tetracycline and gaseous toluene. Journal of Colloid and Interface Science, 2020, 579, 37-49.	5.0	151
536	Size-Dependent Structures and Catalytic Performances of Au/TiO₂-{001} Catalysts for Propene Epoxidation. Journal of Physical Chemistry C, 2020, 124, 15264-15274.	1.5	8
537	Understanding the role of ionic flux on the polarity of the exposed surfaces of ZnO. Physical Chemistry Chemical Physics, 2020, 22, 15427-15436.	1.3	4
538	Morphology-dependent formaldehyde detection of porous copper oxide hierarchical microspheres at near-room temperature. Microporous and Mesoporous Materials, 2020, 302, 110232.	2.2	22

#	Article	IF	Citations
539	In-Situ Probing of Crystal-Phase-Dependent Photocatalytic Activities of Au Nanostructures by Surface-Enhanced Raman Spectroscopy. , 2020, 2, 409-414.		22
540	Formation mechanism and size control of ceria nanocubes. CrystEngComm, 2020, 22, 3033-3041.	1.3	21
541	Beyond surface redox and oxygen mobility at pd-polar ceria (100) interface: Underlying principle for strong metal-support interactions in green catalysis. Applied Catalysis B: Environmental, 2020, 270, 118843.	10.8	15
542	Hollow Mn3O4 nanospheres on graphene matrix for oxygen reduction reaction and supercapacitance applications: Experimental and theoretical insight. Journal of Power Sources, 2020, 471, 228465.	4.0	37
543	Hydrogenated Cu2O octahededrons with exposed {111} facets: Enhancing sensing performance and sensing mechanism of 1-coordinated Cu atom as a reactive center. Sensors and Actuators B: Chemical, 2020, 310, 127827.	4.0	22
544	Recent Advances on the Rational Design of Non-Precious Metal Oxide Catalysts Exemplified by CuOx/CeO2 Binary System: Implications of Size, Shape and Electronic Effects on Intrinsic Reactivity and Metal-Support Interactions. Catalysts, 2020, 10, 160.	1.6	66
545	Enhancing gas-sensing property and sensing mechanism at molecule level of the hollow microspheres assembled with ZnO nanoflakes exposing {001} facets. Journal of Materials Science: Materials in Electronics, 2020, 31, 6118-6129.	1.1	7
546	Interaction of nitric oxide with the (1ÂÂ0) surface of cobalt spinel nanocubes â€“ A comprehensive DFT, atomistic thermodynamic, IR and TPD account. Applied Surface Science, 2020, 513, 145835.	3.1	10
547	High-performance natural-sunlight-driven Ag/AgCl photocatalysts with a cube-like morphology and blunt edges via a bola-type surfactant-assisted synthesis. Physical Chemistry Chemical Physics, 2020, 22, 3940-3952.	1.3	17
548	Erbium-doped oxygen deficient cerium oxide: bi-functional material in the field of spintronics and photocatalysis. Applied Nanoscience (Switzerland), 2020, 10, 1721-1733.	1.6	33
549	Aqueous Synthesis of Pdâ€“M (Mâ€‰=â€‰Pd, Pt, and Au) Decahedra with Concave Facets for Catalytic Applications. Topics in Catalysis, 2020, 63, 664-672.	1.3	9
550	A P-doped PtTe mesoporous nanotube electrocatalyst. Sustainable Energy and Fuels, 2020, 4, 2950-2955.	2.5	9
551	Facetâ€Dependent Oxygen Reduction Reaction Activity on the Surfaces of Co₃O₄. Energy and Environmental Materials, 2021, 4, 407-412.	7.3	19
552	Facets and Defects in Perovskite Nanocrystals for Photocatalytic CO₂ Reduction. Journal of Physical Chemistry Letters, 2020, 11, 3608-3614.	2.1	64
553	New perspectives on the nature and imaging of active site in small metallic particles: II. Electronic effects. Chemical Engineering Communications, 2021, 208, 411-431.	1.5	1
554	Catalytic Performance for the Conversion of Potent Fluorinated Greenhouse Gases by Aluminium Fluorides with Different Morphology. Catalysis Letters, 2021, 151, 2065-2074.	1.4	4
555	Unusual positive effect of SO2 on Mn-Ce mixed-oxide catalyst for the SCR reaction of NOx with NH3. Chemical Engineering Journal, 2021, 407, 127071.	6.6	95
556	Ultrathin nanoflake-assembled hierarchical BiOBr microflower with highly exposed {001} facets for efficient photocatalytic degradation of gaseous ortho-dichlorobenzene. Applied Catalysis B: Environmental, 2021, 281, 119478.	10.8	112

#	Article	IF	Citations
557	Sulfite activation and tetracycline removal by rectangular copper oxide nanosheets with dominantly exposed (0 0 1) reactive facets: Performance, degradation pathway and mechanism. Chemical Engineering Journal, 2021, 406, 126693.	6.6	60
558	Nanoscale engineering of catalytic materials for sustainable technologies. Nature Nanotechnology, 2021, 16, 129-139.	15.6	210
559	Ultra-small hollow ternary alloy nanoparticles for efficient hydrogen evolution reaction. National Science Review, 2021, 8, nwaa204.	4.6	33
560	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. Chemical Reviews, 2021, 121, 736-795.	23.0	269
561	Synthesis, Structure and Catalytic Properties of Faceted Oxide Crystals. ChemCatChem, 2021, 13, 6-27.	1.8	10
562	New perspectives on the nature and imaging of active site in small metallic particles: I. Geometric effects. Chemical Engineering Communications, 2021, 208, 89-109.	1.5	0
563	Stable lead-halide perovskite quantum dots as efficient visible light photocatalysts for organic transformations. Nanoscale Advances, 2021, 3, 1464-1472.	2.2	17
564	Atomically precise vanadium-oxide clusters. Nanoscale Advances, 2021, 3, 1293-1318.	2.2	37
565	Self-Assembly and Polymorphic Transformation of Butterfly-Shaped Organic Nanocrystals from a Windmill-like Bulky Small Molecule. Crystal Growth and Design, 2021, 21, 1113-1121.	1.4	2
566	Hairy silica nanosphere supported metal nanoparticles for reductive degradation of dye pollutants. Nanoscale Advances, 2021, 3, 2879-2886.	2.2	13
567	Gases. RSC Nanoscience and Nanotechnology, 2021, , 97-129.	0.2	1
568	Recent advancements in coinage metal nanostructures and bio-applications. Materials Advances, 2021, 2, 1507-1529.	2.6	22
569	Probing surface-sensitive redox properties of VO_x/TiO₂ catalyst nanoparticles. Nanoscale, 2021, 13, 7266-7272.	2.8	9
570	Rhodium nanoparticles inside well-defined unimolecular amphiphilic polymeric nanoreactors: synthesis and biphasic hydrogenation catalysis. Nanoscale Advances, 2021, 3, 2554-2566.	2.2	7
571	Recent Progress in 5-Hydroxymethylfurfural Catalytic Oxidation to 2,5-Furandicarboxylic Acid. Current Organic Chemistry, 2021, 25, 404-416.	0.9	8
572	Complete catalytic oxidation of formaldehyde at room temperature on MnxCo3-xO4 catalysts derived from metal-organic frameworks. Applied Catalysis A: General, 2021, 611, 117975.	2.2	33
573	Nature and Role of Surface Junctions in BiOIO₃ Photocatalysts. Advanced Functional Materials, 2021, 31, 2009472.	7.8	20
574	Study on the adsorption selection of CH$$_4$$ on CuO (110) versus (111) surfaces: a density functional theory study. SN Applied Sciences, 2021, 3, 1.	1.5	1

#	Article	IF	Citations
575	Photogenerated Charge Separation between Polar Crystal Facets Under a Spontaneous Electric Field. Advanced Optical Materials, 2021, 9, 2001898.	3.6	7
576	Facet-Dependent Reactivity of Ceria Nanoparticles Exemplified by CeO2-Based Transition Metal Catalysts: A Critical Review. Catalysts, 2021, 11, 452.	1.6	33
578	How the Morphology of NiO_x-Decorated CeO₂ Nanostructures Affects Catalytic Properties in CO₂ Methanation. Langmuir, 2021, 37, 5376-5384.	1.6	28
579	Understanding the Solution-Phase Growth of Cu and Ag Nanowires and Nanocubes from First Principles. Langmuir, 2021, 37, 4419-4431.	1.6	11
580	Enhancing the CO₂-to-CO Conversion from 2D Silver Nanoprisms via Superstructure Assembly. ACS Nano, 2021, 15, 7682-7693.	7.3	35
581	A Strategy to Develop Efficient Ag₃PO₄â€based Photocatalytic Materials Toward Water Splitting: Perspectives and Challenges. ChemCatChem, 2021, 13, 2965-2987.	1.8	25
582	Synthesis of (111) facet-engineered MgO nanosheet from coal fly ash and its superior catalytic performance for high-temperature water gas shift reaction. Applied Catalysis A: General, 2021, 618, 118132.	2.2	12
583	Thermodynamic stability and electronic structure properties of the Bi2WO6 (0 0 1) surface: First principle calculation. Applied Surface Science, 2021, 548, 149053.	3.1	9
584	Recent advances in wireless photofixation of dinitrogen to ammonia under the ambient condition: A review. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 47, 100402.	5.6	22
585	A cobalt coordination polymer from bulk to nanoscale crystals as heterogeneous catalysts for tandem reactions. Journal of Solid State Chemistry, 2021, 299, 122174.	1.4	0
586	Shape effect of cerium oxide nanoparticles on mild traumatic brain injury. Scientific Reports, 2021, 11, 15571.	1.6	19
587	The active sites of Cuâ€"ZnO catalysts for water gas shift and CO hydrogenation reactions. Nature Communications, 2021, 12, 4331.	5.8	83
588	Importance of Surface Topography in Both Biological Activity and Catalysis of Nanomaterials: Can Catalysis by Design Guide Safe by Design?. International Journal of Molecular Sciences, 2021, 22, 8347.	1.8	9
589	Facet effect of In2O3 for methanol synthesis by CO2 hydrogenation: A mechanistic and kinetic study. Surfaces and Interfaces, 2021, 25, 101244.	1.5	9
590	Heterojunction photocatalysts for degradation of the tetracycline antibiotic: a review. Environmental Chemistry Letters, 2021, 19, 4563-4601.	8.3	206
591	Prussian blue-based nanostructured materials: Catalytic applications for environmental remediation and energy conversion. Molecular Catalysis, 2021, 514, 111835.	1.0	24
592	Facile Regeneration Strategy for Facet-Controlled Nanocatalysts via the Dissolutionâ€"Reprecipitation Process Promoted by an Organic Modifier. Chemistry of Materials, 2021, 33, 7780-7784.	3.2	4
593	Nanosized ZnIn2S4 supported on facet-engineered CeO2 nanorods for efficient gaseous elemental mercury immobilization. Journal of Hazardous Materials, 2021, 419, 126436.	6.5	49

#	Article	IF	Citations
594	High entropy nanoparticles of CoCrXFeNi (X=Al, Cu, Mn) loaded on activated carbon for efficient degradation of methylene blue. Journal of Materials Research and Technology, 2021, 15, 256-267.	2.6	7
595	Mechanism study on the high-performance BaFe2O4 during chemical looping gasification. Fuel, 2022, 307, 121847.	3.4	13
596	Improving the sensitivity of T₁ contrast-enhanced MRI and sensitive diagnosing tumors with ultralow doses of MnO octahedrons. Theranostics, 2021, 11, 6966-6982.	4.6	16
597	Morphology effects of CeO2-ZrO2 on the catalytic performance of CuO/CeO2-ZrO2 for toluene oxidation. Carbon Resources Conversion, 2021, 4, 55-60.	3.2	13
598	Morphology-dependent nanocatalysis: tricobalt tetraoxide. Research on Chemical Intermediates, 2021, 47, 195-209.	1.3	4
599	Recent advances in zinc chalcogenide-based nanocatalysts for photocatalytic reduction of CO₂. Journal of Materials Chemistry A, 2021, 9, 23364-23381.	5.2	25
600	Heterogeneous catalysts for CO₂hydrogenation to formic acid/formate: from nanoscale to single atom. Energy and Environmental Science, 2021, 14, 1247-1285.	15.6	152
601	Confined Transformation of Organometalâ€Encapsulated MOFs into Spinel CoFe₂O₄/C Nanocubes for Lowâ€Temperature Catalytic Oxidation. Advanced Functional Materials, 2020, 30, 1910257.	7.8	57
602	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for Highâ€Activity Electrocatalytic Oxidation of Biomass. Angewandte Chemie - International Edition, 2020, 59, 15487-15491.	7.2	83
603	Structural and optical transmittance analysis of CuO thin films deposited by the spray pyrolysis method. Solid State Sciences, 2020, 104, 106254.	1.5	31
604	Model Catalysts for Au Catalysis: From Single Crystals to Supported Nanoparticles. RSC Catalysis Series, 2014, , 533-574.	0.1	2
605	Nanosheet-assembled microflower-like coordination polymers by surfactant-assisted assembly with enhanced catalytic activity. CrystEngComm, 2020, 22, 7858-7863.	1.3	3
606	Abatement of formaldehyde with photocatalytic and catalytic oxidation: a review. International Journal of Chemical Reactor Engineering, 2021, 19, 1-29.	0.6	15
607	Study on the atomic and electronic structures of BiOCl{001} surface using first principles. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 127301.	0.2	8
608	Uniform octahedral ZrO2@C from carbonized UiO-66 for electrocatalytic nitrogen reduction. Materials Today Energy, 2021, 22, 100884.	2.5	10
609	Ultra-fast Cu-based A3-coupling catalysts: faceted Cu2O microcrystals as efficient catalyst-delivery systems in batch and flow conditions. Canadian Journal of Chemistry, 0, , .	0.6	2
610	Recent strategies for enhancing the catalytic activity of CO2 hydrogenation to formate/formic acid over Pd-based catalyst. Journal of CO2 Utilization, 2021, 54, 101765.	3.3	27
611	Nanocatalysts: Green Fuel and Chemical Production. , 2014, , 1-15.		2

#	Article	IF	Citations
612	The Role of Bis(p-Sulfonatophenyl)Phenylphosphine in Stabilizing Gold Nanoparticles. , 0, , .		4
613	Supported Nanoparticle Synthesis by Electrochemical Deposition. , 2015, , 1-23.		0
614	Supported Nanoparticle Synthesis by Electrochemical Deposition. , 2016, , 603-631.		0
616	The Roles of Citrate and Defects in the Anisotropic Growth of Ag Nanostructures. Chemistry of Materials, 2021, 33, 8301-8311.	3.2	16
617	Reversible structural transformation and redox properties of Cr-loaded iron oxide dendrites studied by in situ XANES spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 28093-28099.	1.3	3
618	Structural and Optical Properties of CuO Thin Films Synthesized Using Spray Pyrolysis Method. Coatings, 2021, 11, 1392.	1.2	27
619	Photoluminescence of metal nanoclusters. , 2021, , .		0
620	Enhanced sensitivity of hydrogenated Î±-Fe2O3 nanoplates having {001} facets and the gas sensing mechanism. Journal of Materials Science: Materials in Electronics, 2022, 33, 3617-3630.	1.1	1
621	Effectiveness of morphology and size. , 2022, , 91-111.		1
622	Structure sensitivity of CuO in CO oxidation over CeO2-CuO/Cu2O catalysts. Journal of Catalysis, 2022, 405, 333-345.	3.1	39
623	Regulating electron transfer over asymmetric low-spin Co(II) for highly selective electrocatalysis. Chem Catalysis, 2022, 2, 372-385.	2.9	50
624	Chemical conversion based on the crystal facet effect of transition metal oxides and construction methods for sharp-faced nanocrystals. Chemical Communications, 2022, 58, 908-924.	2.2	9
625	<scp>Cu₂O</scp> Nanocrystal Model Catalysts. Chinese Journal of Chemistry, 2022, 40, 846-855.	2.6	18
626	Self-assembled inorganic chiral superstructures. Nature Reviews Chemistry, 2022, 6, 125-145.	13.8	102
627	Spiers Memorial Lecture. Next generation nanoelectrochemistry: the fundamental advances needed for applications. Faraday Discussions, 2021, 233, 10-32.	1.6	12
628	The Therapeutic Role of Nanoparticle Shape in Traumatic Brain Injury : An in vitro Comparative Study. Journal of Korean Neurosurgical Society, 2022, 65, 196-203.	0.5	3
629	Dielectric Loss Mechanism in Electromagnetic Wave Absorbing Materials. Advanced Science, 2022, 9, e2105553.	5.6	422
630	Experimental and Theoretical Insight into the Facet-Dependent Mechanisms of NO Oxidation Catalyzed by Structurally Diverse Mn₂O₃ Nanocrystals. ACS Catalysis, 2022, 12, 397-410.	5.5	38

#	Article	IF	Citations
631	Electrocatalytic Performance of Ws2/Ac and Ws2/Rgo for Oxygen Reduction Reaction. SSRN Electronic Journal, 0, , .	0.4	0
632	Five-fold twinned Ir-alloyed Pt nanorods with high C1 pathway selectivity for ethanol electrooxidation. Nano Research, 2022, 15, 3933-3939.	5.8	14
633	Remarkable Activity of 002 Facet of Ruthenium Nanoparticles Grown on Graphene Films on the Photocatalytic CO₂ Methanation. Advanced Sustainable Systems, 2022, 6, .	2.7	7
634	Nanometer-thick defective graphene films decorated with oriented ruthenium nanoparticles. Higher activity of 101 vs 002 plane for silane-alcohol coupling and hydrogen transfer reduction. Journal of Catalysis, 2022, 407, 342-352.	3.1	4
635	Designing Sites in Heterogeneous Catalysis: Are We Reaching Selectivities Competitive With Those of Homogeneous Catalysts?. Chemical Reviews, 2022, 122, 8594-8757.	23.0	118
636	Three Millennia of Nanocrystals. ACS Nano, 2022, 16, 5085-5102.	7.3	27
637	Interface Dynamics in Agâ€“Cu₃P Nanoparticle Heterostructures. Journal of the American Chemical Society, 2022, 144, 248-258.	6.6	10
638	Defect-Dependent Selective Câ€“H/Câ€“C Bond Cleavage of Propane in the Presence of CO₂ over FeNi/Ceria Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 17301-17309.	3.2	5
639	Electrodeposition of Ptâ€“Rh Trioctahedral Nanocrystals for the Oxidation Reactions of Methanol and Ethanol. ACS Applied Energy Materials, 2022, 5, 807-814.	2.5	7
640	Review on Lowâ€Cost Counter Electrode Materials for Dyeâ€Sensitized Solar Cells: Effective Strategy to Improve Photovoltaic Performance. Advanced Materials Interfaces, 2022, 9, .	1.9	35
641	Designing Self-Supported Electrocatalysts for Electrochemical Water Splitting: Surface/Interface Engineering toward Enhanced Electrocatalytic Performance. ACS Applied Materials & Interfaces, 2021, 13, 59593-59617.	4.0	58
642	Methane Oxidation Enhancement in the Presence of Water: Stabilizing Role of Praseodymium in Ceria-Supported Palladium Nanocatalysts. SSRN Electronic Journal, 0, , .	0.4	0
643	Highly active WS2 catalysts attached to two carbon substrates for oxygen reduction reaction. Journal of Alloys and Compounds, 2022, 911, 164991.	2.8	2
644	Rational design of porous Ce_xNb_{1â^'x} oxide hollow nanospheres as a novel NH₃-SCR catalyst. Journal of Materials Chemistry A, 2022, 10, 12269-12277.	5.2	10
645	A potential link between the structure of iron catalysts and Fenton-like performance: from fundamental understanding to engineering design. Journal of Materials Chemistry A, 2022, 10, 12788-12804.	5.2	15
646	Structural, optical and electrical properties of CuO nanostructures prepared by reactive DC magnetron sputtering. Materials Today: Proceedings, 2022, 65, 2523-2528.	0.9	0
647	<scp>Morphologyâ€Dependent</scp> Catalysis of <scp>CeO₂â€Based</scp> Nanocrystal Model Catalysts. Chinese Journal of Chemistry, 2022, 40, 1856-1866.	2.6	18
648	Selective Degradation of Electron-Rich Organic Pollutants Induced by CuO@Biochar: The Key Role of Outer-Sphere Interaction and Singlet Oxygen. Environmental Science & Technology, 2022, 56, 10710-10720.	4.6	95

#	Article	IF	Citations
649	Synthesis of perovskite polyhedron nanocrystals with equivalent facets and the controlled growth of Pt nanoparticles with differing surface concentration of oxidized Pt4+/Pt2+ species. Catalysis Today, 2022, , .	2.2	1
650	Electronic Metal-Support Interactions Between CuxO and ZnO for CuxO/ZnO Catalysts With Enhanced CO Oxidation Activity. Frontiers in Chemistry, 2022, 10, .	1.8	3
651	Enhanced Water Oxidation reaction activity of Mn3O4 nanocrystals in alkaline medium by doping Transition-metal Ions. Nano Futures, 0, , .	1.0	0
652	Imaging the facet surface strain state of supported multi-faceted Pt nanoparticles during reaction. Nature Communications, 2022, 13, .	5.8	11
653	Ultrafine PdZn bimetallic nanoparticles anchored on sulfur-doped mesoporous carbon for the partial hydrogenation of alkynols. Catalysis Today, 2022, , .	2.2	3
654	Heterogeneous Catalysis for Carbon Dioxide Mediated Hydrogen Storage Technology Based on Formic Acid. Advanced Energy Materials, 2022, 12, .	10.2	38
655	Synthesis and Characterization of Ptâ€Ag Icosahedral Nanocages with Enhanced Catalytic Activity toward Oxygen Reduction. ChemNanoMat, 0, , .	1.5	1
656	Origin of luminescence of metal nanoclusters. , 2022, , 119-160.		0
658	Facet engineering of NiCo2S4 electrocatalysts for enhanced hydrogen evolution reaction. Applied Catalysis A: General, 2022, 643, 118803.	2.2	10
659	Green Nano-catalysts and importance of green reactions in Industry: A Review. Research Journal of Science and Technology, 2022, , 188-192.	0.1	0
660	(111) Faceted Metal Oxides: A Review of Synthetic Methods. Crystal Growth and Design, 2022, 22, 6296-6322.	1.4	5
661	Surface Plane Effect of ZnO on the Catalytic Performance of Au/ZnO for the CO Oxidation Reaction. Journal of Physical Chemistry C, 2022, 126, 14155-14162.	1.5	10
662	Determination of Crystallographic Orientation and Exposed Facets of Titanium Oxide Nanocrystals. Advanced Materials, 2022, 34, .	11.1	35
663	Advances in Microfluidic Synthesis of Solid Catalysts. , 2022, 1, 155-183.		2
664	Synergistic Pt-CeO2 interface boosting low temperature dry reforming of methane. Applied Catalysis B: Environmental, 2022, 318, 121809.	10.8	46
665	The Active Sites of Platinum-Ceria Catalysts in Propane Oxidation and Preferential Oxidation of Carbon Monoxide in Hydrogen. SSRN Electronic Journal, 0, , .	0.4	0
666	Water-induced stacking of Î±-Fe₂O₃ hexagonal nanoplates along the [001] direction and their facet-dependent catalytic performances. CrystEngComm, 2022, 24, 6512-6518.	1.3	0
667	Recent advances in Co₂C-based nanocatalysts for direct production of olefins from syngas conversion. Chemical Communications, 2022, 58, 9712-9727.	2.2	3

#	Article	IF	Citations
668	Mofs-Derived Cuo-Fe3o4@C with Abundant Oxygen Vacancies and Strong Cu-Fe Interaction for Deep Mineralization of Bisphenol a. SSRN Electronic Journal, 0, , .	0.4	0
669	Double Confinement Hydrogel Network Enables Continuously Regenerative Solarâ€toâ€Hydrogen Conversion. Angewandte Chemie - International Edition, 2022, 61, .	7.2	5
670	Effect of the Preparation Conditions on the Catalytic Properties of CoPt for Highly Efficient 4-Nitrophenol Reduction. Materials, 2022, 15, 6250.	1.3	5
671	Double Confinement Hydrogel Network Enables Continuously Regenerative Solarâ€toâ€Hydrogen Conversion. Angewandte Chemie, 0, , .	1.6	0
672	The Role of Nanocrystal Facets in Sustainable Organic Synthesis. ChemNanoMat, 2022, 8, .	1.5	1
673	Electrodeposition of shaped PtIr alloy nanocrystals with highâ€"index facets for the electroâ€"catalytic oxidation of alcohols. Applied Surface Science, 2023, 609, 155225.	3.1	2
674	Theoretical SERS study of the strength and suitability of Cu12 nanostar for SERS: Complete theoretical studies, coinage metal SM12 comparisons, benzothiazole (BTH) adsorbent. Computational and Theoretical Chemistry, 2022, 1217, 113889.	1.1	8
675	Ultrafine PdCo bimetallic nanoclusters confined in N-doped porous carbon for the efficient semi-hydrogenation of alkynes. Dalton Transactions, 2022, 51, 16361-16370.	1.6	1
676	Continuous and Scalable Production of Platinum Nanocubes with Uniform and Controllable Sizes in Air-Free Droplet Reactors. Journal of Physical Chemistry B, 2022, 126, 8588-8595.	1.2	2
677	Photostimulated Synthesis of Noble Metals Nanoparticles. Naukovij VÃ¬snik ÄŒernÃ¬vecÊ¹kogo UnÃ¬versitetu HÃ¬mÃ¬Ã¢, 2019, , 57-83.	0.0	0
678	New insights into the morphological effects of MnO -CeO binary mixed oxides on Hg0 capture. Applied Surface Science, 2023, 613, 156035.	3.1	6
679	rGO/CNTs heterogeneous interface modified by polyelectrolyte towards modulating negative permittivity of meta-composites. Applied Surface Science, 2023, 613, 156074.	3.1	5
680	Introduction to Electrocatalysts. ACS Symposium Series, 0, , 1-29.	0.5	0
681	Colloidal Synthesis of Metal Nanocrystals: From Asymmetrical Growth to Symmetry Breaking. Chemical Reviews, 2023, 123, 3693-3760.	23.0	28
682	Importance of K Substitution in LaMnO₃ Nanostructures for the Selective Reduction of Î±,Î²-Unsaturated Carbonyl Compounds and Nitroarenes. ACS Applied Nano Materials, 2022, 5, 17482-17486.	2.4	0
683	Unveiling the Balance between Catalytic Activity and Water Resistance over Co₃O₄ Catalysts for Propane Oxidation: The Role of Crystal Facet and Oxygen Vacancy. ACS Catalysis, 2023, 13, 237-247.	5.5	20
684	Selfâ€Assembly of Nanocrystalline Structures from Freestanding Oxide Membranes. Advanced Materials, 2023, 35, .	11.1	1
685	Hydrogenation of CO2 into Formates by Ligandâ€Capped Palladium Heterogeneous Catalysts. ChemCatChem, 0, , .	1.8	0

#	Article	IF	Citations
686	Electric, magnetic, and shear field-directed assembly of inorganic nanoparticles. Nanoscale, 2023, 15, 2018-2035.	2.8	5
687	Environmental Health and Safety of Engineered Nanomaterials. Micro/Nano Technologies, 2023, , 801-846.	0.1	0
688	Heterogeneous selective oxidation over supported metal catalysts: From nanoparticles to single atoms. Applied Catalysis B: Environmental, 2023, 325, 122384.	10.8	20
689	Identification of the Active Sites of Platinum-Ceria Catalysts in Propane Oxidation and Preferential Oxidation of Carbon Monoxide in Hydrogen. Catalysis Letters, 2023, 153, 3634-3650.	1.4	3
690	Surface and Interface Coordination Chemistry Learned from Model Heterogeneous Metal Nanocatalysts: From Atomically Dispersed Catalysts to Atomically Precise Clusters. Chemical Reviews, 2023, 123, 5948-6002.	23.0	50
691	Supercritical fluid-assisted fabrication of Pt-modified cerium oxide nanozyme based on polymer nanoreactors for peroxidase-like and glucose detection characteristics. Journal of Supercritical Fluids, 2023, 198, 105915.	1.6	4
692	Electrochemical reduction of carbon dioxide into valuable chemicals: a review. Environmental Chemistry Letters, 2023, 21, 1515-1553.	8.3	10
693	Practical Considerations for Simulating the Plasmonic Properties of Metal Nanoparticles. ACS Physical Chemistry Au, 2023, 3, 252-262.	1.9	2
694	Combining the Curvature and Ligand Effects for Regioselective Growth on Au Nano-bipyramids. , 2023, 1, 94-99.		4
695	Chloride enables the growth of Ag nanocubes and nanowires by making PVP binding facet-selective. Nanoscale, 2023, 15, 5219-5229.	2.8	5
696	Uniform Catalytic Nanocrystals: From Model Catalysts to Efficient Catalysts. Accounts of Materials Research, 2023, 4, 373-384.	5.9	7
697	Understanding Heterogeneous Catalytic Hydrogenation by Parahydrogen-Induced Polarization NMR Spectroscopy. ACS Catalysis, 2023, 13, 3501-3519.	5.5	3
698	Recent Advances of Seedâ€Mediated Growth of Metal Nanoparticles: from Growth to Applications. Advanced Materials, 2023, 35, .	11.1	15
699	Theory of Anisotropic Metal Nanostructures. Chemical Reviews, 2023, 123, 4146-4183.	23.0	12
700	Pd-Nanoparticles-Catalyzed C(sp2)â€“H Arylation for the Synthesis of Functionalized Heterocycles: Recent Progress and Prospects. Synthesis, 2024, 56, 611-638.	1.2	2
701	One-dimensional metal-organic frameworks: Synthesis, structure and application in electrocatalysis. , 2023, 1, 100010.		2
702	Surfaceâ€Functionalized Nanoparticles as Catalysts for Artificial Photosynthesis. Advanced Energy Materials, 2023, 13, .	10.2	5
706	Important Features of Nanomaterials for Environmental Remediation. , 2023, , 1-23.		0

#	Article	IF	Citations
724	Advanced electrode materials of air batteries. , 2024, , 263-320.		0