

Nanomaterials of high surface energy with exceptional storage

Chemical Society Reviews

40, 4167

DOI: [10.1039/c0cs00176g](https://doi.org/10.1039/c0cs00176g)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Electrospinning: designed architectures for energy conversion and storage devices. Energy and Environmental Science, 2011, 4, 4761.	30.8	654
2	Shape Evolution of Highly Crystalline Anatase TiO ₂ Nanobipyramids. Crystal Growth and Design, 2011, 11, 5221-5226.	3.0	61
3	Synthesis and characterization of polyhedral and quasi-sphere non-polyhedral Pt nanoparticles: effects of their various surface morphologies and sizes on electrocatalytic activity for fuel cell applications. Journal of Nanoparticle Research, 2011, 13, 5177-5191.	1.9	18
5	Structure and morphology of platinum nanoparticles with critical new issues of low- and high-index facets. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 025005.	1.5	32
6	Free-standing nickel oxide nanoflake arrays: synthesis and application for highly sensitive non-enzymatic glucose sensors. Nanoscale, 2012, 4, 3123.	5.6	228
7	Carbon Monoxide-Assisted Synthesis of Single-Crystalline Pd Tetrapod Nanocrystals through Hydride Formation. Journal of the American Chemical Society, 2012, 134, 7073-7080.	13.7	120
8	Synthesis and applications of noble metal nanocrystals with high-energy facets. Nano Today, 2012, 7, 586-605.	11.9	224
10	Biomimetic Oxygen Activation by MoS ₂ /Ta ₃ N ₅ Nanocomposites for Selective Aerobic Oxidation. Angewandte Chemie - International Edition, 2012, 51, 11740-11744.	13.8	66
11	Synthesis of monodisperse CeO ₂ octahedra assembled by nano-sheets with exposed {001} facets and catalytic property. CrystEngComm, 2012, 14, 1939.	2.6	22
12	Laser-induced reshaping of particles aiming at energy-saving applications. Journal of Materials Chemistry, 2012, 22, 15947.	6.7	39
13	Morphology-controlled synthesis of ZnO 3D hierarchical structures and their photocatalytic performance. CrystEngComm, 2012, 14, 8626.	2.6	75
14	Synthesis of palladium nanocatalysts with cucurbit[n]uril as both a protecting agent and a support for Suzuki and Heck reactions. Catalysis Science and Technology, 2012, 2, 156-163.	4.1	37
15	Rapid and shape-controlled synthesis of "clean" star-like and concave Pd nanocrystallites and their high performance toward methanol oxidation. Journal of Materials Chemistry, 2012, 22, 14861.	6.7	38
16	Anion-induced morphological regulation of In(OH) ₃ nanostructures and their conversion into porous In ₂ O ₃ derivatives. CrystEngComm, 2012, 14, 3397.	2.6	11
17	Identifying mass transfer influences on Au nanoparticles growth process by centrifugation. Chemical Communications, 2012, 48, 7353.	4.1	6
18	Peroxidase-mimic bismuth-gold nanoparticles for determining the activity of thrombin and drug screening. Chemical Communications, 2012, 48, 7952.	4.1	114
19	Colloidal nanocrystal quantum dot assemblies as artificial solids. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, 030802.	2.1	111
20	Efficient Light Harvesting and Charge Collection of Dye-Sensitized Solar Cells with (001) Faceted Single Crystalline Anatase Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 19164-19172.	3.1	36

#	ARTICLE	IF	CITATIONS
21	Defining Rules for the Shape Evolution of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2012, 134, 14542-14554.	13.7	609
22	A simple approach towards uniform spherical Ag-like nanoparticles. <i>Nanoscale</i> , 2012, 4, 3036.	5.6	9
23	Shape transformation from Pt nanocubes to tetrahedra with size near 10nm. <i>Electrochemistry Communications</i> , 2012, 22, 61-64.	4.7	44
24	Platinum Nanoparticles Stabilized by Cucurbit[6]uril with Enhanced Catalytic Activity and Excellent Poisoning Tolerance for Methanol Electrooxidation. <i>Chemistry - A European Journal</i> , 2012, 18, 12978-12985.	3.3	46
25	Imaging the electrocatalytic activity of single nanoparticles. <i>Nature Nanotechnology</i> , 2012, 7, 668-672.	31.5	273
26	The preparation of spiral ZnO nanostructures by top-down wet-chemical etching and their related properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 10924.	6.7	27
27	Controlling the morphologies of WO ₃ particles and tuning the gas sensing properties. <i>New Journal of Chemistry</i> , 2012, 36, 2205.	2.8	71
28	Alloy tetrahedral Pd-Pt catalysts: enhancing significantly the catalytic activity by synergy effect of high-index facets and electronic structure. <i>Chemical Science</i> , 2012, 3, 1157.	7.4	152
29	Metal-air batteries: from oxygen reduction electrochemistry to cathode catalysts. <i>Chemical Society Reviews</i> , 2012, 41, 2172.	38.1	2,322
30	Polyvinylpyrrolidone-Assisted Ultrasonic Synthesis of SnO Nanosheets and Their Use as Conformal Templates for Tin Dioxide Nanostructures. <i>Langmuir</i> , 2012, 28, 10597-10601.	3.5	41
31	Multi-component oxide nanosystems by Chemical Vapor Deposition and related routes: challenges and perspectives. <i>CrystEngComm</i> , 2012, 14, 6347.	2.6	41
32	Morphologically-tunable TiO ₂ nanorod film with high energy facets: green synthesis, growth mechanism and photocatalytic activity. <i>Nanoscale</i> , 2012, 4, 5023.	5.6	44
33	Synthesis, Self-Assembly, and High Performance in Gas Sensing of X-Shaped Iron Oxide Crystals. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5698-5703.	8.0	48
34	Reversible aggregation between nanoparticles induced by acid-base interactions. <i>Chemical Physics Letters</i> , 2012, 546, 133-135.	2.6	3
35	Surface Charge Transfer Induced Ferromagnetism in Nanostructured ZnO/Al. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8541-8547.	3.1	15
36	Single crystal γ -Fe ₂ O ₃ with exposed {104} facets for high performance gas sensor applications. <i>RSC Advances</i> , 2012, 2, 6178.	3.6	82
37	Tetrahedral Pt Nanocrystal Catalysts Decorated with Ru Adatoms and Their Enhanced Activity in Methanol Electrooxidation. <i>ACS Catalysis</i> , 2012, 2, 708-715.	11.2	76
38	Enhancing the activity and tuning the mechanism of formic acid oxidation at tetrahedral Pt nanocrystals by Au decoration. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 16415.	2.8	40

#	ARTICLE	IF	CITATIONS
39	Binding Sn-based nanoparticles on graphene as the anode of rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 3300.	6.7	97
40	Preparation of MgO Nanosheets with Polar (111) Surfaces by Ligand Exchange and Esterification - Synthesis, Structure, and Application as Catalyst Support. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2869-2876.	2.0	36
41	Growth of Metal-Decorated Metal Oxide Nanostructures on Freestanding Graphene Paper for Flexible Biosensors. <i>Advanced Functional Materials</i> , 2012, 22, 2487-2494.	14.9	246
43	Electrochemical Milling and Faceting: Size Reduction and Catalytic Activation of Palladium Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8500-8504.	13.8	63
44	Sonochemical Synthesis of Ag/AgCl Nanocubes and Their Efficient Visible-Light-Driven Photocatalytic Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 5192-5200.	3.3	128
45	Metal Ions Induce Growth and Magnetism Alternation of Fe_2O_3 Crystals Bound by High-Index Facets. <i>Chemistry - A European Journal</i> , 2012, 18, 8957-8963.	3.3	57
46	Facile syntheses and enhanced electrocatalytic activities of Pt nanocrystals with high-index surfaces. <i>Nano Research</i> , 2012, 5, 181-189.	10.4	92
47	One-step hydrothermal synthesis of ZnFe_2O_4 nano-octahedrons as a high capacity anode material for Li-ion batteries. <i>Nano Research</i> , 2012, 5, 477-485.	10.4	241
48	Fluorinated semiconductor photocatalysts: Tunable synthesis and unique properties. <i>Advances in Colloid and Interface Science</i> , 2012, 173, 35-53.	14.7	159
49	Pd Cluster Nanowires as Highly Efficient Catalysts for Selective Hydrogenation Reactions. <i>Chemistry - A European Journal</i> , 2012, 18, 2639-2645.	3.3	50
50	Small Adsorbate-Assisted Shape Control of Pd and Pt Nanocrystals. <i>Advanced Materials</i> , 2012, 24, 862-879.	21.0	415
51	High-Index Faceted Noble Metal Nanocrystals. <i>Accounts of Chemical Research</i> , 2013, 46, 191-202.	15.6	501
52	Global life cycle releases of engineered nanomaterials. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	1,097
53	Surface Structure Dependent Electrocatalytic Activity of Co_3O_4 Anchored on Graphene Sheets toward Oxygen Reduction Reaction. <i>Scientific Reports</i> , 2013, 3, 2300.	3.3	274
54	Synthesis of Highly Branched Gold Nanodendrites with a Narrow Size Distribution and Tunable NIR and SERS Using a Multiamine Surfactant. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6886-6892.	8.0	54
55	Three-Dimensional Homogeneous Ferrite-Carbon Aerogel: One Pot Fabrication and Enhanced Electro-Fenton Reactivity. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 842-852.	8.0	136
56	A review of hollow Pt-based nanocatalysts applied in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2013, 232, 310-322.	7.8	154
57	Co_3O_4 nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14427.	10.3	147

#	ARTICLE	IF	CITATIONS
58	Palladium nanoparticles on the inner wall of tin oxide hollow nanospheres with enhanced hydrogen sensing properties. <i>RSC Advances</i> , 2013, 3, 14979.	3.6	12
59	Graphene-Wrapped CoS Nanoparticles for High-Capacity Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 801-806.	8.0	219
60	Facet engineered Ag ₃ PO ₄ for efficient water photooxidation. <i>Energy and Environmental Science</i> , 2013, 6, 3380.	30.8	231
61	Surface stabilization of hexagonal WO ₃ by non-metallic atoms: A DFT study. <i>Computational Materials Science</i> , 2013, 68, 218-221.	3.0	20
62	Bimetallic Platonic Janus Nanocrystals. <i>Langmuir</i> , 2013, 29, 12844-12851.	3.5	15
63	Zn ²⁺ -assisted synthesis of concave Cu ₂ O crystals and enhanced photocatalytic properties. <i>Catalysis Communications</i> , 2013, 42, 109-112.	3.3	15
64	Metal-Organic Framework-Immobilized Polyhedral Metal Nanocrystals: Reduction at Solid-Gas Interface, Metal Segregation, Core-Shell Structure, and High Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 16356-16359.	13.7	119
65	Highly Concave Platinum Nanoframes with High-Index Facets and Enhanced Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12337-12340.	13.8	193
66	Making Sense of the Mayhem behind Shape Control in the Synthesis of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2013, 135, 18238-18247.	13.7	295
68	Plasmon-Mediated Syntheses of Metallic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13910-13940.	13.8	182
69	Synthesis of SiO ₂ @NiO magnetic core-shell nanoparticles and their use as adsorbents for the removal of methylene blue. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	29
71	Catalytic palladium nanoparticles supported on nanoscale MOFs: a highly active catalyst for Suzuki-Miyaura cross-coupling reaction. <i>Tetrahedron</i> , 2013, 69, 9237-9244.	1.9	43
72	Sulfur film-coated reduced graphene oxide composite for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9173.	10.3	61
73	Pt-group bimetallic nanocrystals with high-index facets as high performance electrocatalysts. <i>Faraday Discussions</i> , 2013, 162, 77.	3.2	50
74	A New Strategy for the Synthesis of Iron-Oxide Nanocrystals by Using a Single-Spinneret Electrospinning Technique. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2453-2458.	3.3	1
75	Behavior of sheet-like crystalline ammonium trivanadate hemihydrate (NH ₄ V ₃ O ₈ ·0.5H ₂ O) as a novel ammonia sensing material. <i>Journal of Solid State Chemistry</i> , 2013, 202, 105-110.	2.9	19
76	Defect-Dominated Shape Recovery of Nanocrystals: A New Strategy for Trimetallic Catalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 12220-12223.	13.7	96
77	Electroanalytical Evaluation of Antioxidant Activity of Cerium Oxide Nanoparticles by Nanoparticle Collisions at Microelectrodes. <i>Journal of the American Chemical Society</i> , 2013, 135, 16770-16773.	13.7	91

#	ARTICLE	IF	CITATIONS
78	A chemical bottom-up and successive top-down approach for nanoporous SnO ₂ hollows from Ni ₃ Sn ₂ nanoalloys: high surface area photocatalysts and anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 8609.	10.3	14
79	Spherical to polyhedral Pt nanocrystal formation assisted with methylamine. , 2013, , .		1
80	Self-assembled long-chain organic ion grafted carbon dot ionic nanohybrids with liquid-like behavior and dual luminescence. New Journal of Chemistry, 2013, 37, 3857.	2.8	7
81	High-efficiently visible light-responsive photocatalysts: Ag ₃ PO ₄ tetrahedral microcrystals with exposed {111} facets of high surface energy. Journal of Materials Chemistry A, 2013, 1, 12635.	10.3	100
82	Formaldehyde-assisted synthesis of ultrathin Rh nanosheets for applications in CO oxidation. CrystEngComm, 2013, 15, 6127-6130.	2.6	55
83	In situ identification of crystal facet-mediated chemical reactions on tetrahedral gold nanocrystals using surface-enhanced Raman spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 19337.	2.8	15
84	One-pot galvanic formation of ultrathin-shell Sn/CoO _x nanohollows as high performance anode materials in lithium ion batteries. Chemical Communications, 2013, 49, 5981.	4.1	6
85	Graphene wrapped SnCo nanoparticles for high-capacity lithium ion storage. Journal of Power Sources, 2013, 222, 526-532.	7.8	73
86	Solution and surfactant-free growth of supported high index facet SERS active nanoparticles of rhenium by phase demixing. Journal of Materials Chemistry A, 2013, 1, 1566-1572.	10.3	20
87	Plasmon-mediated Synthesis of Silver Cubes with Unusual Twinning Structures Using Short Wavelength Excitation. Small, 2013, 9, 1947-1953.	10.0	61
88	On the synergistic effect of hydrohalic acids in the shape-controlled synthesis of anatase TiO ₂ single crystals. CrystEngComm, 2013, 15, 3252-3255.	2.6	45
89	Shape-Controlled Synthesis of Pd Nanocrystals and Their Catalytic Applications. Accounts of Chemical Research, 2013, 46, 1783-1794.	15.6	568
90	Al ³⁺ -controlled synthesis and magnetic property of Fe_2O_3 nanoplates. CrystEngComm, 2013, 15, 443-446.	2.6	48
91	The application of nano-crystalline PbO ₂ as an anode for the simultaneous bio-electrochemical denitrification and organic matter removal in an up-flow undivided reactor. Electrochimica Acta, 2013, 94, 327-335.	5.2	35
92	Microwave solvothermal synthesis of flower-like SnS ₂ and SnO ₂ nanostructures as high-rate anodes for lithium ion batteries. Chemical Engineering Journal, 2013, 229, 183-189.	12.7	69
93	Experimental and theoretical approach of nanocrystalline TiO ₂ with antifungal activity. Chemical Physics Letters, 2013, 577, 114-120.	2.6	14
94	3-Dimensionally self-assembled single crystalline platinum nanostructures on few-layer graphene as an efficient oxygen reduction electrocatalyst. RSC Advances, 2013, 3, 6913.	3.6	11
95	High-Index Facets in Gold Nanocrystals Elucidated by Coherent Electron Diffraction. Nano Letters, 2013, 13, 1840-1846.	9.1	26

#	ARTICLE	IF	CITATIONS
96	Nanowires with controlled porosity for hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2133-2138.	10.3	29
97	Seed-mediated growth of noble metal nanocrystals: crystal growth and shape control. <i>Nanoscale</i> , 2013, 5, 3172.	5.6	173
98	Nanomaterials for energy conversion and storage. <i>Chemical Society Reviews</i> , 2013, 42, 3127.	38.1	1,356
99	MoO ₃ @Au composite interfacial layer for high efficiency and air-stable organic solar cells. <i>Organic Electronics</i> , 2013, 14, 797-803.	2.6	52
100	Self-assembled thiolate functionalized gold nanoparticles template toward tailoring the morphology of electrochemically deposited silver nanostructure. <i>Electrochimica Acta</i> , 2013, 88, 621-631.	5.2	17
101	Enzymeless multi-sugar fuel cells with high power output based on 3D graphene@Co ₃ O ₄ hybrid electrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9170.	2.8	42
102	Emerging Strategies for the Total Synthesis of Inorganic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6154-6178.	13.8	184
103	Metal Oxides and Oxysalts as Anode Materials for Li Ion Batteries. <i>Chemical Reviews</i> , 2013, 113, 5364-5457.	47.7	2,670
104	Surface-specific interaction by structure-match confined pure high-energy facet of unstable TiO ₂ (B) polymorph. <i>Scientific Reports</i> , 2013, 3, 1411.	3.3	51
105	Gold nanoparticles functionalized with supramolecular macrocycles. <i>Chinese Chemical Letters</i> , 2013, 24, 545-552.	9.0	67
106	Supersaturation-Dependent Surface Structure Evolution: From Ionic, Molecular to Metallic Micro/Nanocrystals. <i>Journal of the American Chemical Society</i> , 2013, 135, 9311-9314.	13.7	149
107	Doping TiO ₂ with p-block elements: Effects on photocatalytic activity. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2013, 14, 13-28.	11.6	334
108	How to control the shape of metal nanostructures in organic solution phase synthesis for plasmonics and catalysis. <i>Nano Today</i> , 2013, 8, 198-215.	11.9	94
109	Surface and interface control of noble metal nanocrystals for catalytic and electrocatalytic applications. <i>Nano Today</i> , 2013, 8, 168-197.	11.9	431
110	Computational Approaches to the Chemical Conversion of Carbon Dioxide. <i>ChemSusChem</i> , 2013, 6, 944-965.	6.8	144
111	Cationic Gemini Surfactant-Assisted Synthesis of Hollow Au Nanostructures by Stepwise Reductions. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5709-5716.	8.0	44
112	Site-Selective Deposition of Twinned Platinum Nanoparticles on TiSi ₂ Nanonets by Atomic Layer Deposition and Their Oxygen Reduction Activities. <i>ACS Nano</i> , 2013, 7, 6337-6345.	14.6	38
113	Nickel ions inducing growth of high-index faceted γ -Fe ₂ O ₃ and their facet-controlled magnetic properties. <i>RSC Advances</i> , 2013, 3, 8261.	3.6	17

#	ARTICLE	IF	CITATIONS
114	Facet-Dependent Catalytic Activity of Platinum Nanocrystals for Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Scientific Reports</i> , 2013, 3, 1836.	3.3	146
115	Growth of Nanobipyramid by Using Large Sized Au Decahedra as Seeds. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 13340-13352.	8.0	60
116	Self-Assembly of Protein-Based Biomaterials Initiated by Titania Nanotubes. <i>Langmuir</i> , 2013, 29, 15013-15021.	3.5	16
117	Shape Controlled Synthesis of Platinum Nanocrystals with High Catalytic Activities for Methanol Electrooxidation. <i>Catalysis Letters</i> , 2013, 143, 1030-1034.	2.6	8
118	Synthesis of Convex Hexoctahedral Pt Micro/Nanocrystals with High-Index Facets and Electrochemistry-Mediated Shape Evolution. <i>Journal of the American Chemical Society</i> , 2013, 135, 18754-18757.	13.7	117
119	Confined Volume Change in Sn-Co Ternary Tube-in-Tube Composites for High Capacity and Long Life Lithium Storage. <i>Advanced Functional Materials</i> , 2013, 23, 893-899.	14.9	89
120	Graphene Based Electrode Using in Rechargeable Lithium Ion Batteries. <i>Advanced Materials Research</i> , 2013, 774-776, 640-645.	0.3	3
121	Surface Sites of Nanomaterials: Investigation of Local Structures by In Situ IR Spectroscopy. <i>Springer Proceedings in Physics</i> , 2013, , 145-163.	0.2	3
122	Electric field distribution around the chain of composite nanoparticles in ferrofluids. <i>Chinese Physics B</i> , 2013, 22, 084703.	1.4	6
123	CHISELED NICKEL HYDROXIDE NANOPLATES GROWTH ON GRAPHENE SHEETS FOR LITHIUM ION BATTERIES. <i>Nano</i> , 2013, 08, 1350068.	1.0	7
124	Crystal-Facet Engineering of Ferric Giniite by Using Ionic-Liquid Precursors and Their Enhanced Photocatalytic Performances under Visible-Light Irradiation. <i>Chemistry - A European Journal</i> , 2013, 19, 7231-7242.	3.3	29
127	Influence of the Bulk Growth Direction on TiO ₂ and SnO ₂ Surface Energies. <i>Current Physical Chemistry</i> , 2014, 4, 81-86.	0.2	0
128	Understanding the structure of nanocatalysts with high resolution scanning/transmission electron microscopy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014, 55, 012005.	0.6	7
129	NH ₄ ⁺ -mediated growth of hematite tire-like single crystals by oriented attachment and their unique photocatalytic properties. <i>Materials Research Express</i> , 2014, 1, 025039.	1.6	3
130	Inorganic & organic materials for rechargeable Li batteries with multi-electron reaction. <i>Science China Materials</i> , 2014, 57, 42-58.	6.3	78
131	Electrochemistry of Metal Nanoparticles and Quantum Dots. , 2014, , 1-25.		0
132	Calculation of effective electromagnetic parameters of multi-needle zinc oxide whisker based on equivalent spherical particle and strong fluctuation theory. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	4
133	Pt ₃ Co Concave Nanocubes: Synthesis, Formation Understanding, and Enhanced Catalytic Activity toward Hydrogenation of Styrene. <i>Chemistry - A European Journal</i> , 2014, 20, 1753-1759.	3.3	37

#	ARTICLE	IF	CITATIONS
134	A comparative study of CO adsorption on tetrahedral Pt nanocrystals and interrelated Pt single crystal electrodes by using cyclic voltammetry and in situ FTIR spectroscopy. <i>Faraday Discussions</i> , 2014, 176, 409-428.	3.2	6
135	Highly Uniform Self-Assembled Gold Nanoparticles over High Surface Area ZnO Nanorods as Catalysts. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, M61-M64.	1.8	13
136	COLLOIDAL PREPARATION OF MONODISPERSE NANOCRYSTALS. <i>Journal of Molecular and Engineering Materials</i> , 2014, 02, 1430001.	1.8	6
137	Synthesis of Cu Nanowires by the Self-Assembly Growth Process. <i>Advanced Materials Research</i> , 0, 1035, 330-333.	0.3	0
138	A light-on-colorimetric assay for anion detection using the inhibitory effect of anions on the catalytic activity of metal nanoparticles for the degradation of methyl orange. <i>Analyst</i> , 2014, 139, 6122-6125.	3.5	7
139	High-performance of PbO ₂ nanowire electrodes for lead-acid battery. <i>Journal of Power Sources</i> , 2014, 256, 72-79.	7.8	34
140	Facile synthesis of mesoporous aluminosilicate nanoparticles for the selective production of N-benzylideneaniline in a solvent-free reaction of aniline with benzyl alcohol. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7354-7359.	10.3	8
141	Electrochemistry of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3558-3586.	13.8	333
142	Mesoporous titania microspheres composed of exposed active faceted nanosheets and their catalytic activities for solvent-free synthesis of azoxybenzenes. <i>CrystEngComm</i> , 2014, 16, 1620.	2.6	9
143	TiO ₂ Nanoparticles as Functional Building Blocks. <i>Chemical Reviews</i> , 2014, 114, 9283-9318.	47.7	410
144	The Shape of TiO ₂ -B Nanoparticles. <i>Journal of the American Chemical Society</i> , 2014, 136, 6306-6312.	13.7	33
145	Shape-controlled activation of peroxydisulfate by single crystal Mn ₂ O ₃ for catalytic phenol degradation in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 246-251.	20.2	196
146	Bottom-Up Top-Down Fabrication of Structurally and Functionally Tunable Hierarchical Palladium Materials. <i>Journal of the Electrochemical Society</i> , 2014, 161, D3078-D3086.	2.9	10
147	Tetrahedral Pt-Pd alloy nanocatalysts with high-index facets: an atomistic perspective on thermodynamic and shape stabilities. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1375-1382.	10.3	15
148	CuO nanostructures: Synthesis, characterization, growth mechanisms, fundamental properties, and applications. <i>Progress in Materials Science</i> , 2014, 60, 208-337.	32.8	1,086
149	Oxygen electrocatalysts in metal-air batteries: from aqueous to nonaqueous electrolytes. <i>Chemical Society Reviews</i> , 2014, 43, 7746-7786.	38.1	1,264
150	Local Supersaturation Dictated Branching and Faceting of Submicrometer PbS Particles with Cubic Growth Habit. <i>Inorganic Chemistry</i> , 2014, 53, 11484-11491.	4.0	12
151	Engineered Pt-Doped Nanoceria for Oxidase-Based Bioelectrodes Operating in Oxygen-Deficient Environments. <i>ChemElectroChem</i> , 2014, 1, 2082-2088.	3.4	16

#	ARTICLE	IF	CITATIONS
152	Controllable Synthesis of Metal Nanoparticles for Electrocatalytic Activity Enhancement. RSC Catalysis Series, 2014, , 225-247.	0.1	0
153	Green Facile Scalable Synthesis of Titania/Carbon Nanocomposites: New Use of Old Dental Resins. ACS Applied Materials & Interfaces, 2014, 6, 18461-18468.	8.0	38
154	Oneâ€Dimensional, Additiveâ€Free, Singleâ€Crystal TiO₂ Nanostructured Anodes Synthesized by a Singleâ€Step Aerosol Process for Highâ€Rate Lithiumâ€Ion Batteries. Energy Technology, 2014, 2, 906-911.	3.8	17
155	A nanocomposite of tin dioxide octahedral nanocrystals exposed to high-energy facets anchored onto graphene sheets for high performance lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 13990.	10.3	32
156	Tuning the structure and property of nanostructured cathode materials of lithium ion and lithium sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 19941-19962.	10.3	56
157	High-index-faceted platinum nanoparticles: insights into structural and thermal stabilities and shape evolution from atomistic simulations. Journal of Materials Chemistry A, 2014, 2, 11480-11489.	10.3	25
158	Electrochemical and in situ ATR-SEIRAS investigations of methanol and CO electro-oxidation on PVP-free cubic and octahedral/tetrahedral Pt nanoparticles. RSC Advances, 2014, 4, 21284-21293.	3.6	18
159	Solvent switching and purification of colloidal nanoparticles through water/oil Interfaces within a density gradient. Nano Research, 2014, 7, 1670-1679.	10.4	8
160	Hematite concave nanocubes and their superior catalytic activity for low temperature CO oxidation. Nanoscale, 2014, 6, 7199.	5.6	36
161	The crystal plane effect of CoFe nanocrystals on Fischerâ€Tropsch synthesis. Journal of Materials Chemistry A, 2014, 2, 13116-13122.	10.3	20
162	Mesoporous VO₂ nanowires with excellent cycling stability and enhanced rate capability for lithium batteries. RSC Advances, 2014, 4, 33332-33337.	3.6	47
163	Effect of laser irradiation on the early-stage seed formation of laser-induced submicrometer-scale silica spheres. Radiation Effects and Defects in Solids, 2014, 169, 277-284.	1.2	1
164	Metal-free oxygen reduction electrodes based on thin PEDOT films with high electrocatalytic activity. RSC Advances, 2014, 4, 9819.	3.6	34
165	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.	8.0	17
166	Electrochemical Synthesis of Tetrahedral Rhodium Nanocrystals with Extraordinarily High Surface Energy and High Electrocatalytic Activity. Angewandte Chemie - International Edition, 2014, 53, 5097-5101.	13.8	132
167	Water Adsorption Microcalorimetry Model: Deciphering Surface Energies and Water Chemical Potentials of Nanocrystalline Oxides. Journal of Physical Chemistry C, 2014, 118, 10131-10142.	3.1	42
168	Tuning Plasmon Resonance of Gold Nanostars for Enhancements of Nonlinear Optical Response and Raman Scattering. Journal of Physical Chemistry C, 2014, 118, 9659-9664.	3.1	78
169	Tunable thermodynamic stability of Auâ€CuPt coreâ€shell trimetallic nanoparticles by controlling the alloy composition: insights from atomistic simulations. Physical Chemistry Chemical Physics, 2014, 16, 22754-22761.	2.8	34

#	ARTICLE	IF	CITATIONS
170	Bismuth oxyhalide nanomaterials: layered structures meet photocatalysis. <i>Nanoscale</i> , 2014, 6, 8473-8488.	5.6	774
171	Synthesis of ZnO quantum dot/graphene nanocomposites by atomic layer deposition with high lithium storage capacity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7319-7326.	10.3	117
172	Facile synthesis and characterizations of copper-zinc-10,15,20-tetra(4-pyridyl) porphyrin (Cu-ZnTPyP) coordination polymer with hexagonal micro-lump and micro-prism morphologies. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 229-235.	9.4	11
173	Single-crystalline and multiple-twinned gold nanoparticles: an atomistic perspective on structural and thermal stabilities. <i>RSC Advances</i> , 2014, 4, 7528.	3.6	25
174	Controllable Tuning Various Ratios of ZnO Polar Facets by Crystal Seed-Assisted Growth and Their Photocatalytic Activity. <i>Crystal Growth and Design</i> , 2014, 14, 2179-2186.	3.0	68
175	Additive-Free Shape-Invariant Nano-to-Micron Size-Tuning of Cu ₂ O Cubic Crystals by Square-Wave Voltammetry. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11062-11077.	3.1	18
176	Role of the Morphology and Surface Planes on the Catalytic Activity of Spinel LiMn _{1.5} Ni _{0.5} O ₄ for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2014, 4, 421-425.	11.2	54
177	High-surface-area ordered mesoporous oxides for continuous operation in high temperature energy applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3134.	10.3	21
178	Supersaturation-Controlled Shape Evolution of Fe ₂ O ₃ Nanocrystals and Their Facet-Dependent Catalytic and Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12505-12514.	8.0	196
179	Synthesis of Rhombic Dodecahedral Fe ₃ O ₄ Nanocrystals with Exposed High-Energy {110} Facets and Their Peroxidase-like Activity and Lithium Storage Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12588-12598.	3.1	67
180	Flower-like nanostructure MNb ₂ O ₆ (M= Mn, Zn) with high surface area: Hydrothermal synthesis and enhanced photocatalytic performance. <i>Materials Research Bulletin</i> , 2014, 51, 271-276.	5.2	16
181	Synthesis, Characterization, and Formation Mechanism of Crystalline Cu and Ni Metallic Nanowires under Ambient, Seedless, Surfactantless Conditions. <i>Crystal Growth and Design</i> , 2014, 14, 3825-3838.	3.0	6
182	One-pot synthesis of Au@Pd core-shell nanocrystals with multiple high- and low-index facets and their high electrocatalytic performance. <i>Nanoscale</i> , 2014, 6, 9798.	5.6	38
183	Mesocrystal Co ₃ O ₄ nanoplatelets as high capacity anode materials for Li-ion batteries. <i>Nano Research</i> , 2014, 7, 794-803.	10.4	67
184	Self-assembly of colloidal one-dimensional nanocrystals. <i>Chemical Society Reviews</i> , 2014, 43, 2301.	38.1	182
185	Synthesis and Processing of Nanomaterials. , 2014, , 1-17.		0
186	Surface energy and its anisotropy of hexagonal close-packed metals. <i>Surface Science</i> , 2014, 630, 195-201.	1.9	38
187	Particle swarm optimization of the stable structure of tetrahedral Pt-based bimetallic nanoparticles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2965-2972.	2.1	6

#	ARTICLE	IF	CITATIONS
188	Review on modified TiO_2 for green energy applications under UV/visible light: selected results and reaction mechanisms. RSC Advances, 2014, 4, 28265-28299.	3.6	136
189	Four-Layer Tin-Carbon Nanotube Yolk-Shell Materials for High-Performance Lithium-Ion Batteries. ChemSusChem, 2014, 7, 1407-1414.	6.8	30
190	Theoretical insights into structural-electronic relationships and relative stability of the Cu-, Al- and O-terminated $\text{CuAlO}_2(0001)$ surfaces. Vacuum, 2014, 107, 90-98.	3.5	13
191	Shape-Controllable Pulse Electrodeposition of Ultrafine Platinum Nanodendrites for Methanol Catalytic Combustion and the Investigation of their Local Electric Field Intensification by Electrostatic Force Microscope and Finite Element Method. Electrochimica Acta, 2014, 136, 66-74.	5.2	34
192	High-Energy-Surface Engineered Metal Oxide Micro- and Nanocrystallites and Their Applications. Accounts of Chemical Research, 2014, 47, 308-318.	15.6	203
195	ENVIRONMENTAL APPLICATIONS OF NANOTECHNOLOGY. , 2014, , .		1
196	Facet-Controlled Synthetic Strategy of Cu_2O -Based Crystals for Catalysis and Sensing. Advanced Science, 2015, 2, 1500140.	11.2	175
197	Fundamentals of Electrospinning. , 2015, , 1-28.		2
198	Nanomanufacturing of titania interfaces with controlled structural and functional properties by supersonic cluster beam deposition. Journal of Applied Physics, 2015, 118, .	2.5	81
199	Oxygen-Assisted Synthesis of Mesoporous Palladium Nanoparticles as Highly Active Electrocatalysts. Chemistry - A European Journal, 2015, 21, 18671-18676.	3.3	6
200	Morphological and Interfacial Studies of Fe Clusters on $\text{SrTiO}_3(001)$ Surfaces. E-Journal of Surface Science and Nanotechnology, 2015, 13, 85-89.	0.4	0
201	Microorganism-mediated, CTAC-directed synthesis of SERS-sensitive Au nanohorns with three-dimensional nanostructures by <i>Escherichia coli</i> cells. Journal of Chemical Technology and Biotechnology, 2015, 90, 678-685.	3.2	11
202	Dye-Sensitized Solar Cell with Electrophoretic Deposited Photocatalytic Carbon Nanotube Counter Electrode: Nanotube Density and Cell Performance. ECS Transactions, 2015, 69, 1-8.	0.5	0
203	High-Indexed Pt_3Fe Nanocatalysts and Their Enhanced Catalytic Performance in Dual Organic Reactions. ChemNanoMat, 2015, 1, 331-337.	2.8	14
204	Rational Synthesis of Heterostructured M/Pt (M = Ru or Rh) Octahedral Nanoboxes and Octapods and Their Structure-Dependent Electrochemical Activity Toward the Oxygen Evolution Reaction. Small, 2015, 11, 4462-4468.	10.0	32
205	Recent Development of Pd-Based Electrocatalysts for Proton Exchange Membrane Fuel Cells. Catalysts, 2015, 5, 1221-1274.	3.5	82
206	Reaction Kinetic Parameters and Surface Thermodynamic Properties of Cu_2O Nanocubes. Entropy, 2015, 17, 5437-5449.	2.2	17
207	Morphology Effect on the Kinetic Parameters and Surface Thermodynamic Properties of Ag_3PO_4 Micro-/Nanocrystals. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	7

#	ARTICLE	IF	CITATIONS
208	One pot synthesis of octahedral {111} Cu-rich gradient alloy nanocrystals with a Cu-rich core and an Ir-rich surface and their usage as efficient water splitting catalyst. <i>CrystEngComm</i> , 2015, 17, 6843-6847.	2.6	37
209	X-ray scattering characterisation of nanoparticles. <i>Crystallography Reviews</i> , 2015, 21, 229-303.	1.5	126
211	Facile synthesis of high-temperature (1000°C) phase-stable rice-like anatase TiO ₂ nanocrystals. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	4
212	Investigation into High Efficiency Visible Light Photocatalysts for Water Reduction and Oxidation. Springer Theses, 2015, .	0.1	8
213	Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. <i>Nano Research</i> , 2015, 8, 82-96.	10.4	84
214	Spherical and Sheetlike Ag/AgCl Nanostructures: Interesting Photocatalysts with Unusual Facet-Dependent yet Substrate-Sensitive Reactivity. <i>Langmuir</i> , 2015, 31, 602-610.	3.5	33
215	In-situ synthesized mesoporous TiO ₂ -B/anatase microparticles: Improved anodes for lithium ion batteries. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 583-589.	3.5	17
217	Manganese(II) phosphate nanoflowers as electrochemical biosensors for the high-sensitivity detection of ractopamine. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 310-317.	7.8	89
218	Five-Fold Twinned Pd ₂ NiAg Nanocrystals with Increased Surface Ni Site Availability to Improve Oxygen Reduction Activity. <i>Journal of the American Chemical Society</i> , 2015, 137, 2820-2823.	13.7	100
219	Synthesis of Hierarchical FeWO ₄ Architectures with {100}-Faceted Nanosheet Assemblies as a Robust Biomimetic Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1171-1178.	3.7	33
220	Morphology Effect of Ir/La ₂ O ₃ CO ₃ Nanorods with Selectively Exposed {110} Facets in Catalytic Steam Reforming of Glycerol. <i>ACS Catalysis</i> , 2015, 5, 1155-1163.	11.2	64
221	Engineering a high energy surface of anatase TiO ₂ crystals towards enhanced performance for energy conversion and environmental applications. <i>RSC Advances</i> , 2015, 5, 20396-20409.	3.6	79
222	Ether based electrolyte improves the performance of CuFeS ₂ spike-like nanorods as a novel anode for lithium storage. <i>Electrochimica Acta</i> , 2015, 158, 368-373.	5.2	36
223	Activity of formaldehyde dehydrogenase on titanium dioxide films with different crystallinities. <i>Applied Surface Science</i> , 2015, 329, 262-268.	6.1	6
224	Selective synthesis of rhodium-based nanoframe catalysts by chemical etching of 3d metals. <i>Chemical Communications</i> , 2015, 51, 3997-4000.	4.1	40
225	Electrosynthesis of nanostructures and nanomaterials. <i>Russian Chemical Reviews</i> , 2015, 84, 159-193.	6.5	64
226	Large-Scale Synthesis of Palladium Concave Nanocubes with High-Index Facets for Sustainable Enhanced Catalytic Performance. <i>Scientific Reports</i> , 2015, 5, 8515.	3.3	51
227	Standing carbon-coated molybdenum dioxide nanosheets on graphene: morphology evolution and lithium ion storage properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4706-4715.	10.3	55

#	ARTICLE	IF	CITATIONS
228	Hierarchical structures of rutile exposing high-index facets. <i>Journal of Crystal Growth</i> , 2015, 418, 86-91.	1.5	14
229	Bio-inspired synthesis of metal nanomaterials and applications. <i>Chemical Society Reviews</i> , 2015, 44, 6330-6374.	38.1	395
230	Synthesis and Surface Thermodynamic Functions of CaMoO ₄ Nanocakes. <i>Entropy</i> , 2015, 17, 2741-2748.	2.2	16
231	Laser direct writing of crystalline Fe ₂ O ₃ atomic sheets on steel surface in aqueous medium. <i>Applied Surface Science</i> , 2015, 351, 148-154.	6.1	17
232	Facile synthesis of Pt ₃ Ni alloy nanourchins by temperature modulation and their enhanced electrocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2015, 645, 309-316.	5.5	17
233	Effects of the molecular weight and the valency of guest-modified poly(ethylene glycol)s on the stability, size and dynamics of supramolecular nanoparticles. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6945-6952.	5.8	13
234	Polyhedral MnO nanocrystals anchored on reduced graphene oxide as an anode material with superior lithium storage capability. <i>Ceramics International</i> , 2015, 41, 10680-10688.	4.8	13
235	Methods and Structures for Self-assembly of Anisotropic 1D Nanocrystals. <i>Nanoscience and Technology</i> , 2015, , 27-68.	1.5	1
236	Fine control over the morphology and photocatalytic activity of 3D ZnO hierarchical nanostructures: capping vs. etching. <i>RSC Advances</i> , 2015, 5, 56232-56238.	3.6	16
237	Surface Treatment Strategies on Catalytic Metal Nanoparticles. , 2015, , 1-21.		0
238	Magnetically recyclable catalytic activity of spiky magneto-plasmonic nanoparticles. <i>RSC Advances</i> , 2015, 5, 56653-56657.	3.6	16
239	Topotactical conversion of carbon coated Fe-based electrodes on graphene aerogels for lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14741-14749.	10.3	45
240	X-shaped hollow γ -FeOOH penetration twins and their conversion to α -Fe ₂ O ₃ nanocrystals bound by high-index facets with enhanced photocatalytic activity. <i>Chemical Engineering Journal</i> , 2015, 274, 224-230.	12.7	37
241	Triazole-stabilized gold and related noble metal nanoparticles for 4-nitrophenol reduction. <i>New Journal of Chemistry</i> , 2015, 39, 4685-4694.	2.8	27
242	Structural optimization of Pt-Pd-Au trimetallic nanoparticles by discrete particle swarm algorithms. <i>Journal of Materials Science</i> , 2015, 50, 3308-3319.	3.7	27
243	Green synthesis of multi-shaped silver nanoparticles: optical, morphological and antibacterial properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3638-3648.	2.2	52
244	Electrochemically Induced Ostwald Ripening in Au/TiO ₂ Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10336-10344.	3.1	15
245	Solvothermal synthesis of metal nanocrystals and their applications. <i>Nano Today</i> , 2015, 10, 240-267.	11.9	206

#	ARTICLE	IF	CITATIONS
246	Electron Microscopy of Solid Catalystsâ€”Transforming from a Challenge to a Toolbox. <i>Chemical Reviews</i> , 2015, 115, 2818-2882.	47.7	200
247	Recent advances in surface and interface engineering for electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2015, 36, 1476-1493.	14.0	48
248	Bio-inspired formation of nanostructured arrays on flexible substrates with superoleophobicity. <i>CrystEngComm</i> , 2015, 17, 8441-8448.	2.6	7
249	Metal/Oxide Interface Nanostructures Generated by Surface Segregation for Electrocatalysis. <i>Nano Letters</i> , 2015, 15, 7704-7710.	9.1	233
250	Highly Symmetric Gold Nanostars: Crystallographic Control and Surface-Enhanced Raman Scattering Property. <i>Journal of the American Chemical Society</i> , 2015, 137, 10460-10463.	13.7	261
251	Effective rate constant for nanostructured heterogeneous catalysts. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30518-30524.	2.8	0
252	Visible-light-driven Ag/AgCl plasmonic photocatalysts via a surfactant-assisted protocol: enhanced catalytic performance by morphology evolution from near-spherical to 1D structures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25182-25190.	2.8	12
253	Nonstoichiometric Oxides as Low-Cost and Highly-Efficient Oxygen Reduction/Evolution Catalysts for Low-Temperature Electrochemical Devices. <i>Chemical Reviews</i> , 2015, 115, 9869-9921.	47.7	770
254	A {110} facet predominated Bi ₆ O ₆ (OH) ₃ (NO ₃) ₃ ·1.5H ₂ O photocatalyst: selective hydrothermal synthesis and its superior photocatalytic activity for degradation of phenol. <i>RSC Advances</i> , 2015, 5, 79715-79723.	3.6	25
255	Key parameters governing metallic nanoparticle electrocatalysis. <i>Nanoscale</i> , 2015, 7, 16151-16164.	5.6	45
256	Connecting the Particles in the Box - Controlled Fusion of Hexamer Nanocrystal Clusters within an AB ₆ Binary Nanocrystal Superlattice. <i>Scientific Reports</i> , 2014, 4, 6731.	3.3	13
257	Mesoporous hexagonal Co ₃ O ₄ for high performance lithium ion batteries. <i>Scientific Reports</i> , 2014, 4, 6519.	3.3	84
258	Synthesis and Processing of Nanomaterials. , 2015, , 747-766.		2
259	Single Crystalline Co ₃ O ₄ Nanocrystals Exposed with Different Crystal Planes for Li-O ₂ Batteries. <i>Scientific Reports</i> , 2014, 4, 5767.	3.3	201
260	The effects of stepped sites and ruthenium adatom decoration on methanol dehydrogenation over platinum-based catalyst surfaces. <i>Catalysis Today</i> , 2015, 242, 230-239.	4.4	10
261	Ultrasml SnO ₂ Nanocrystals: Hot-bubbling Synthesis, Encapsulation in Carbon Layers and Applications in High Capacity Li-Ion Storage. <i>Scientific Reports</i> , 2015, 4, 4647.	3.3	75
262	The New Youth of the In Situ Transmission Electron Microscopy. , 0, , .		2
263	Shape-controlled Nano-sized Metal Oxides for Catalytic Abatement of Diesel Soot Emissions. <i>Current Nanomaterials</i> , 2016, 1, 75-80.	0.4	0

#	ARTICLE	IF	CITATIONS
264	Microscopic characterization of Fe nanoparticles formed on SrTiO ₃ (001) and SrTiO ₃ (110) surfaces. Beilstein Journal of Nanotechnology, 2016, 7, 817-824.	2.8	0
265	Flexible SnO ₂ /N-Doped Carbon Nanofiber Films as Integrated Electrodes for Lithium-Ion Batteries with Superior Rate Capacity and Long Cycle Life. Small, 2016, 12, 853-859.	10.0	292
266	Structural optimization and segregation behavior of quaternary alloy nanoparticles based on simulated annealing algorithm. Chinese Physics B, 2016, 25, 053601.	1.4	3
267	Structure and stability of Fe-Pt bimetallic nanoparticles: Initial structure, composition and shape effects. Journal of Alloys and Compounds, 2016, 685, 1008-1015.	5.5	13
268	Kinetically Controlling Surface Structure to Construct Defect-Rich Intermetallic Nanocrystals: Effective and Stable Catalysts. Advanced Materials, 2016, 28, 2540-2546.	21.0	95
269	Radical scavenging properties of piperidine derivatives of fullerene C ₆₀ /C ₇₀ and multi-walled carbon nanotubes. Molecular Crystals and Liquid Crystals, 2016, 640, 152-157.	0.9	3
270	Electrodeposition of epitaxial Co(OH) ₂ on gold and conversion to epitaxial CoOOH and Co ₃ O ₄ . Journal of Materials Research, 2016, 31, 3324-3331.	2.6	7
271	Noble metal nanoparticle-functionalized ZnO nanoflowers for photocatalytic degradation of RhB dye and electrochemical sensing of hydrogen peroxide. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	59
272	Nanostructured Mn _x O _y for oxygen reduction reaction (ORR) catalysts. Applied Surface Science, 2016, 388, 631-639.	6.1	42
273	Formation of palladium concave nanocrystals via auto-catalytic tip overgrowth by interplay of reduction kinetics, concentration gradient and surface diffusion. Nanoscale, 2016, 8, 8673-8680.	5.6	17
274	Surface engineering of nanomaterials for improved energy storage – A review. Chemical Engineering Science, 2016, 154, 3-19.	3.8	49
275	Defect-Dominated Shape Recovery of Nanocrystals: A New Strategy for Trimetallic Catalysts. Springer Theses, 2016, , 71-91.	0.1	0
276	Controlled Synthesis of Pt-Ni Bimetallic Catalysts and Study of Their Catalytic Properties. Springer Theses, 2016, , .	0.1	1
277	Atomic layer deposition – Sequential self-limiting surface reactions for advanced catalyst – bottom-up synthesis. Surface Science Reports, 2016, 71, 410-472.	7.2	252
278	Well-faceted noble-metal nanocrystals with nonconvex polyhedral shapes. Chemical Society Reviews, 2016, 45, 3207-3220.	38.1	111
279	Electrochemically Seed-Mediated Synthesis of Sub-10 nm Tetrahedral Pt Nanocrystals Supported on Graphene with Improved Catalytic Performance. Journal of the American Chemical Society, 2016, 138, 5753-5756.	13.7	99
280	Hydrogen adsorption-mediated synthesis of concave Pt nanocubes and their enhanced electrocatalytic activity. Nanoscale, 2016, 8, 11559-11564.	5.6	39
281	TiO ₂ mesocrystals with exposed {001} facets as efficient photocatalysts. Journal of Alloys and Compounds, 2016, 680, 80-86.	5.5	22

#	ARTICLE	IF	CITATIONS
282	Mild synthesis of {001} facet predominated Bi ₂ O ₃ CO ₃ clusters with outstanding simulated sunlight photocatalytic activities. CrystEngComm, 2016, 18, 3683-3695.	2.6	22
283	Large scale and cost effective generation of 3D self-supporting oxide nanowire architectures by a top-down and bottom-up combined approach. RSC Advances, 2016, 6, 45923-45930.	3.6	15
284	Energy Storage Performance Enhancement by Surface Engineering of Electrode Materials. Advanced Materials Interfaces, 2016, 3, 1600430.	3.7	17
285	Epitaxy of Radial High-Energy-Faceted Ultrathin TiO ₂ Nanosheets onto Nanowires for Enhanced Photoreactivities. Advanced Functional Materials, 2016, 26, 1580-1589.	14.9	43
286	Soft Landing of Complex Ions for Studies in Catalysis and Energy Storage. Journal of Physical Chemistry C, 2016, 120, 23305-23322.	3.1	31
287	Engineering high-energy surfaces of noble metal nanocrystals with enhanced catalytic performances. Nano Today, 2016, 11, 661-677.	11.9	76
288	Electrochemical preparation of tin-titania nanocomposite arrays. RSC Advances, 2016, 6, 98243-98247.	3.6	1
289	Plasmonic Imaging of Electrochemical Reactions of Single Nanoparticles. Accounts of Chemical Research, 2016, 49, 2614-2624.	15.6	91
290	Flaky CoS ₂ and graphene nanocomposite anode materials for sodium-ion batteries with improved performance. RSC Advances, 2016, 6, 70632-70637.	3.6	70
291	Reversible Electrochemical Modulation of a Catalytic Nanosystem. Angewandte Chemie - International Edition, 2016, 55, 10737-10740.	13.8	21
292	Reversible Electrochemical Modulation of a Catalytic Nanosystem. Angewandte Chemie, 2016, 128, 10895-10898.	2.0	2
293	Understanding of the major reactions in solution synthesis of functional nanomaterials. Science China Materials, 2016, 59, 938-996.	6.3	86
294	Effects of Metal Nanoparticles on Methane Production from Waste-Activated Sludge and Microorganism Community Shift in Anaerobic Granular Sludge. Scientific Reports, 2016, 6, 25857.	3.3	109
295	Highly uniform Co ₉ S ₈ nanoparticles grown on graphene nanosheets as advanced anode materials for improved Li-storage performance. Applied Surface Science, 2016, 390, 86-91.	6.1	23
296	Determination of the Absolute Number Concentration of Nanoparticles and the Active Affinity Sites on Their Surfaces. Analytical Chemistry, 2016, 88, 10134-10142.	6.5	15
297	Environmentally benign synthesis of phytochemicals-capped gold nanoparticles as nanopriming agent for promoting maize seed germination. Science of the Total Environment, 2016, 573, 1089-1102.	8.0	199
298	Facile ethanol/water solvothermal synthesis of {001} facet oriented WO ₃ architectures with superior simulated sunlight photocatalytic activities. CrystEngComm, 2016, 18, 8089-8100.	2.6	14
299	3D Platinum-Lead Nanowire Networks as Highly Efficient Ethylene Glycol Oxidation Electrocatalysts. Small, 2016, 12, 4464-4470.	10.0	98

#	ARTICLE	IF	CITATIONS
300	The role of citric acid and ascorbic acid in morphology control of palladium nanocrystals: A molecular dynamics and density functional theory study. <i>Chemical Physics Letters</i> , 2016, 659, 159-163.	2.6	6
301	A facile and general strategy for the synthesis of porous flowerlike Pt-based nanocrystals as effective electrocatalysts for alcohol oxidation. <i>Nanoscale</i> , 2016, 8, 14705-14710.	5.6	58
302	Structure Design and Performance Tuning of Nanomaterials for Electrochemical Energy Conversion and Storage. <i>Accounts of Chemical Research</i> , 2016, 49, 2569-2577.	15.6	131
303	Tin oxide nanostructured materials: an overview of recent developments in synthesis, modifications and potential applications. <i>RSC Advances</i> , 2016, 6, 110996-111015.	3.6	79
304	Preparation and Catalytic Activity for Aerobic Glucose Oxidation of Crown Jewel Structured Pt/Au Bimetallic Nanoclusters. <i>Scientific Reports</i> , 2016, 6, 30752.	3.3	24
305	PbS Clusters Embedded in Sodalite Zeolite Cavities of Different Compositions: Unraveling the Structural Evolution and Optical Properties Using ab Initio Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27050-27065.	3.1	12
306	SECM evaluations of the crystal-facet-correlated photocatalytic activity of hematites for water splitting. <i>Electrochemistry Communications</i> , 2016, 73, 29-32.	4.7	8
307	High-index faceted Au nanocrystals with highly controllable optical properties and electro-catalytic activity. <i>Nanoscale</i> , 2016, 8, 19224-19228.	5.6	13
308	Controllable orientation-dependent crystal growth of high-index faceted dendritic NiC _{0.2} nanosheets as high-performance bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18499-18508.	10.3	51
309	Defect-Rich Metal Nanocrystals in Catalysis. <i>ChemCatChem</i> , 2016, 8, 480-485.	3.7	33
310	Single-step synthesis of hyperbranched, luminescent Mn ²⁺ -doped ZnSe _{1-x} S _x nanocrystals using dichalcogenide precursors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6907-6913.	5.5	6
311	Atomic structure and thermal stability of Pt-Fe bimetallic nanoparticles: from alloy to core/shell architectures. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17010-17017.	2.8	18
312	Template-free syntheses of hierarchical PbS microstructures using a new sulphur source and their time-dependent morphological evolution and photocatalytic properties. <i>RSC Advances</i> , 2016, 6, 56790-56799.	3.6	6
313	Facile and shape-controlled electrochemical synthesis of gold nanocrystals by changing water contents in deep eutectic solvents and their electrocatalytic activity. <i>RSC Advances</i> , 2016, 6, 8786-8790.	3.6	46
314	Tuning the magnetic and structural properties of electrodeposited nickel " polypyrrole (Ni-PPy) composites through moderate stirring. <i>Materials Chemistry and Physics</i> , 2016, 174, 6-10.	4.0	3
315	Facile synthesis of Gd(III) metallosurfactant-functionalized carbon nanodots with high relaxivity as bimodal imaging probes. <i>RSC Advances</i> , 2016, 6, 29441-29447.	3.6	15
316	Electrochemical supercapacitor performance of SnO ₂ quantum dots. <i>Electrochimica Acta</i> , 2016, 203, 230-237.	5.2	93
317	Tailored synthesis of well-faceted single crystals of Fe ₃ O ₄ and their application in p-nitrophenol reduction. <i>RSC Advances</i> , 2016, 6, 29497-29503.	3.6	11

#	ARTICLE	IF	CITATIONS
318	Recent advances in the organic solution phase synthesis of metal nanoparticles and their electrocatalysis for energy conversion reactions. <i>Nano Energy</i> , 2016, 29, 178-197.	16.0	63
319	Well-dispersed CoS ₂ nano-octahedra grown on a carbon fibre network as efficient electrocatalysts for hydrogen evolution reaction. <i>Catalysis Science and Technology</i> , 2016, 6, 4545-4553.	4.1	62
320	Nanostructure in energy conversion. <i>Journal of Energy Chemistry</i> , 2016, 25, 171-190.	12.9	73
321	Template-free synthesis of titania architectures with controlled morphology evolution. <i>Journal of Materials Science</i> , 2016, 51, 3941-3956.	3.7	8
322	Porous single-crystalline AuPt@Pt bimetallic nanocrystals with high mass electrocatalytic activities. <i>Chemical Science</i> , 2016, 7, 3500-3505.	7.4	59
323	Porous titania/carbon hybrid microspheres templated by in situ formed polystyrene colloids. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 242-256.	9.4	5
324	Formation of silver single crystal polyhedra with high catalytic activity toward oxidation of ascorbic acid in highly ordered SiO ₂ cavities. <i>Journal of Electroanalytical Chemistry</i> , 2016, 768, 41-46.	3.8	5
325	Comparison Study on the Stability of Copper Nanowires and Their Oxidation Kinetics in Gas and Liquid. <i>ACS Nano</i> , 2016, 10, 3823-3834.	14.6	111
326	Direct visual detection of MnO ₂ nanosheets within seconds. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1231-1236.	3.7	9
327	Facile fabrication of concave cubic nitrogen-rich metal-organic framework nanocrystals for gas uptake. <i>CrystEngComm</i> , 2016, 18, 1277-1281.	2.6	8
328	Tucked flower-like SnS ₂ /Co ₃ O ₄ composite for high-performance anode material in lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 190, 843-851.	5.2	33
329	The developments of SnO ₂ /graphene nanocomposites as anode materials for high performance lithium ion batteries: A review. <i>Journal of Power Sources</i> , 2016, 304, 81-101.	7.8	216
330	Shape effect on the antibacterial activity of silver nanoparticles synthesized via a microwave-assisted method. <i>Environmental Science and Pollution Research</i> , 2016, 23, 4489-4497.	5.3	162
331	Morphology evolution of single-crystalline hematite nanocrystals: magnetically recoverable nanocatalysts for enhanced facet-driven photoredox activity. <i>Nanoscale</i> , 2016, 8, 365-377.	5.6	99
332	Lithium Batteries. , 2016, , .		114
333	Anodes for Li-Ion Batteries. , 2016, , 323-429.		1
334	Stability and electronic structure of MgAl ₂ O ₄ (1 1 1) surfaces: A first-principles study. <i>Computational Materials Science</i> , 2016, 112, 8-17.	3.0	24
335	Systematic investigation on the gas-sensing performance of TiO ₂ nanoplate sensors for enhanced detection on toxic gases. <i>Materials Research Bulletin</i> , 2016, 73, 302-307.	5.2	48

#	ARTICLE	IF	CITATIONS
336	Two-dimensional MoS ₂ : A promising building block for biosensors. <i>Biosensors and Bioelectronics</i> , 2017, 89, 56-71.	10.1	215
337	Facile synthesis of bird-like TiO ₂ microstructure with exposed (001) facets for photocatalytic degradation of methylene blue. <i>Applied Surface Science</i> , 2017, 391, 228-235.	6.1	50
338	Nanocellulose as a novel nanostructured adsorbent for environmental remediation: a review. <i>Cellulose</i> , 2017, 24, 1171-1197.	4.9	305
339	Square wave voltammetry restructuring of platinum nanoparticle at boron doped diamond electrode for enhanced ammonia oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 174-183.	3.8	8
340	A proficient magnetic nano-platform with covalently assembled methyl red indicator for the dual recognition of pH and Hg ²⁺ . <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 861-875.	7.8	21
341	Mobility and Oxidation of Adsorbed CO on Shape-Controlled Pt Nanoparticles in Acidic Medium. <i>Langmuir</i> , 2017, 33, 865-871.	3.5	20
342	Shape transformation of {hk0}-faceted Pt nanocrystals from a tetrahexahedron into a truncated ditetragonal prism. <i>Chemical Communications</i> , 2017, 53, 3236-3238.	4.1	17
343	The M ₁₂ N ₁₂ (M = Al, Ga) clusters as potential sensors for NO ₂ and HCN detection. <i>Materials Research Express</i> , 2017, 4, 015009.	1.6	17
344	High-index facet engineering of PtCu cocatalysts for superior photocatalytic reduction of CO ₂ to CH ₄ . <i>Journal of Materials Chemistry A</i> , 2017, 5, 6686-6694.	10.3	93
345	Hierarchical NiO mesocrystals with tuneable high-energy facets for pseudocapacitive charge storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6921-6927.	10.3	38
346	Oxygen-induced doping on reduced PEDOT. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4404-4412.	10.3	97
350	Promoted Electrochemical Performance of β -MnO ₂ through Surface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15176-15181.	8.0	18
351	Co _{2+x} Ti _{1-x} O ₄ nano-octahedra as high performance anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8714-8724.	10.3	23
352	Cysteine, homocysteine and glutathione guided hierarchical self-assemblies of spherical silver nanoparticles paving the way for their naked eye discrimination in human serum. <i>New Journal of Chemistry</i> , 2017, 41, 4316-4321.	2.8	23
353	Sustainability and Nanomaterials in Concert. <i>ChemCatChem</i> , 2017, 9, 3274-3284.	3.7	9
354	Exploring the Formation of Symmetric Gold Nanostars by Liquid-Cell Transmission Electron Microscopy. <i>Nano Letters</i> , 2017, 17, 4194-4201.	9.1	56
355	Nanocrystal Catalysts of High-Energy Surface and Activity. <i>Studies in Surface Science and Catalysis</i> , 2017, 177, 439-475.	1.5	2
356	Ceria Catalysts at Nanoscale: How Do Crystal Shapes Shape Catalysis?. <i>ACS Catalysis</i> , 2017, 7, 4716-4735.	11.2	526

#	ARTICLE	IF	CITATIONS
357	Facile synthesis of bio-fuel from glycerol over zinc aluminium phosphate nanoplates. Sustainable Energy and Fuels, 2017, 1, 1018-1022.	4.9	5
358	Synthesis and superior lithium storage performances of hybrid hollow urchin-like silicate constructed by nanotubes wrapped in reduced graphene oxides. Electrochimica Acta, 2017, 245, 361-370.	5.2	9
359	Synthesis and magnetic properties of nanostructured metallic Co, Mn and Ni oxide materials obtained from solid-state metal-macromolecular complex precursors. RSC Advances, 2017, 7, 27729-27736.	3.6	21
360	Toward hybrid Au nanorods @ M (Au, Ag, Pd and Pt) core-shell heterostructures for ultrasensitive SERS probes. Nanotechnology, 2017, 28, 245602.	2.6	9
361	Formation of Epitaxially Connected Quantum Dot Solids: Nucleation and Coherent Phase Transition. Journal of Physical Chemistry Letters, 2017, 8, 2623-2628.	4.6	41
362	Synthesis of {111} Facet-Exposed MgO with Surface Oxygen Vacancies for Reactive Oxygen Species Generation in the Dark. ACS Applied Materials & Interfaces, 2017, 9, 12687-12693.	8.0	115
363	Enhancing the Photocatalytic Hydrogen Evolution Performance of a Metal/Semiconductor Catalyst through Modulation of the Schottky Barrier Height by Controlling the Orientation of the Interface. ACS Applied Materials & Interfaces, 2017, 9, 12494-12500.	8.0	45
364	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.	13.7	48
365	The role of dissolution in the synthesis of high-activity organic nanocatalysts in a wet chemical reaction. Journal of Materials Chemistry A, 2017, 5, 8029-8036.	10.3	6
366	Single-Molecule Nanocatalysis Reveals Facet-Dependent Catalytic Kinetics and Dynamics of Palladium Nanoparticles. ACS Catalysis, 2017, 7, 2967-2972.	11.2	46
367	Recent advances and remaining challenges of nanostructured materials for hydrogen storage applications. Progress in Materials Science, 2017, 88, 1-48.	32.8	526
368	Controllable synthesis of various V ₂ O ₅ micro-/nanostructures as high performance cathodes for lithium ion batteries. CrystEngComm, 2017, 19, 716-721.	2.6	8
369	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.	2.8	14
370	One-pot controllable synthesis of the missing uniform icosidodecahedral gold nanocrystals with high-index facets and their plasmonic properties. Journal of Materials Chemistry C, 2017, 5, 645-653.	5.5	10
371	<i>In situ</i> epitaxial growth of GdF ₃ on NaGdF ₄ :Yb,Er nanoparticles. Inorganic Chemistry Frontiers, 2017, 4, 2119-2125.	6.0	4
372	Thermal evolution of Mn _x O _y nanofibres as catalysts for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2017, 19, 28781-28787.	2.8	13
373	Defects by design: synthesis of palladium nanoparticles with extended twin defects and corrugated surfaces. Nanoscale, 2017, 9, 17914-17921.	5.6	19
374	Strain-controlled electrocatalysis on multimetallic nanomaterials. Nature Reviews Materials, 2017, 2, .	48.7	727

#	ARTICLE	IF	CITATIONS
375	From capacitance-controlled to diffusion-controlled electrochromism in one-dimensional shape-tailored tungsten oxide nanocrystals. <i>Nano Energy</i> , 2017, 41, 634-645.	16.0	63
376	Stochastic and cooperative processes in far from equilibrium mesoscopic electrochemical systems. <i>Current Opinion in Electrochemistry</i> , 2017, 4, 145-151.	4.8	6
377	Directly constructing Pt-, Pd-, or Au-based high-index skins on Ag nanocubic templates from a general surface-confined anisotropic etching strategy. <i>CrystEngComm</i> , 2017, 19, 5565-5575.	2.6	0
378	Effect of particle size and morphology on surface thermodynamics and photocatalytic thermodynamics of nano-Cu ₂ O. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4447-4453.	6.7	10
379	Exposing high-energy surfaces by rapid-anneal solid phase epitaxy. <i>APL Materials</i> , 2017, 5, 086103.	5.1	1
380	Mechanistic Understanding and the Rational Design of Sinter-Resistant Heterogeneous Catalysts. <i>ACS Catalysis</i> , 2017, 7, 7156-7173.	11.2	214
381	Sb ₂ O ₃ Nanoparticles Anchored on Graphene Sheets via Alcohol Dissolution-Reprecipitation Method for Excellent Lithium-Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34927-34936.	8.0	68
382	Chemical etching of graphene-supported PdPt alloy nanocubes into concave nanostructures for enhanced catalytic hydrogen production from alkaline formaldehyde aqueous solution. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1704-1713.	6.0	7
383	Soot Oxidation Activity of Redox and Non-Redox Metal Oxides Synthesised by EDTA-Citrate Method. <i>Catalysis Letters</i> , 2017, 147, 3004-3016.	2.6	22
384	Enhanced efficiency and environmental stability of planar perovskite solar cells by suppressing photocatalytic decomposition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17368-17378.	10.3	72
385	Ultrathin Vein-Like Iridium-Tin Nanowires with Abundant Oxidized Tin as High-Performance Ethanol Oxidation Electrocatalysts. <i>Small</i> , 2017, 13, 1701295.	10.0	35
386	Synthesis and characterization of single-crystalline Bi ₂ O ₂ SiO ₃ nanosheets with exposed {001} facets. <i>Catalysis Science and Technology</i> , 2017, 7, 3791-3801.	4.1	44
387	Designing Pt-Based Electrocatalysts with High Surface Energy. <i>ACS Energy Letters</i> , 2017, 2, 1892-1900.	17.4	46
388	Prediction of microwave absorption properties of tetrapod-needle zinc oxide whisker radar absorbing material without prior knowledge. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	6
389	A Mechanism for Symmetry Breaking and Shape Control in Single-Crystal Gold Nanorods. <i>Accounts of Chemical Research</i> , 2017, 50, 2925-2935.	15.6	72
390	Interface and Morphology Control of the Thermal Conductivity in Core-Shell Particle Colloidal Crystals. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700963.	3.7	10
391	Self-assembled AuNPs on sulphur-doped graphene: a dual and highly efficient electrochemical sensor for nitrite (NO ₂ ⁻) and nitric oxide (NO). <i>New Journal of Chemistry</i> , 2017, 41, 8347-8358.	2.8	35
392	Cu overlayers on tetrahedral Pd nanocrystals with high-index facets for CO ₂ electroreduction to alcohols. <i>Chemical Communications</i> , 2017, 53, 8085-8088.	4.1	64

#	ARTICLE	IF	CITATIONS
393	The peculiar behavior of functionalized carbon nanotubes in hydrocarbons and polymeric oxidation environments. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 988-1006.	2.6	5
394	Prominent electrocatalytic methanol oxidation from cauli-flower shape gold with high-index facets. <i>Materials Chemistry and Physics</i> , 2017, 186, 301-304.	4.0	9
395	Tetrahexahedral Pt Nanoparticles: Comparing the Oxygen Reduction Reaction under Transient vs Steady-State Conditions. <i>ACS Catalysis</i> , 2017, 7, 1-6.	11.2	25
396	Facet-Engineered Surface and Interface Design of Photocatalytic Materials. <i>Advanced Science</i> , 2017, 4, 1600216.	11.2	307
397	Influence of sample preparation on IGC measurements: the cases of silanised glass wool and packing structure. <i>RSC Advances</i> , 2017, 7, 12194-12200.	3.6	7
398	Three-dimensional Co ₃ O ₄ @MWNTs nanocomposite with enhanced electrochemical performance for nonenzymatic glucose biosensors and biofuel cells. <i>Royal Society Open Science</i> , 2017, 4, 170991.	2.4	15
399	Multifaceted Biomedical Applications of Functional Graphene Nanomaterials to Coated Substrates, Patterned Arrays and Hybrid Scaffolds. <i>Nanomaterials</i> , 2017, 7, 369.	4.1	22
400	Nanocellulose. , 2017, , 277-304.		12
401	Nanoarchitectonic Metals. , 2017, , 135-171.		15
402	Shape-selective synthesis of gold nanoparticles and their catalytic activity towards reduction of p-nitroaniline. <i>Nano Structures Nano Objects</i> , 2018, 14, 125-130.	3.5	34
403	Factors Governing MgO(111) Faceting in the Thermal Decomposition of Oxide Precursors. <i>Chemistry of Materials</i> , 2018, 30, 2641-2650.	6.7	34
404	Theoretical insight into methanol steam reforming on indium oxide with different coordination environments. <i>Science China Chemistry</i> , 2018, 61, 336-343.	8.2	20
405	Ethanol-water ambient precipitation of {111} facets exposed Ag ₃ PO ₄ tetrahedra and its hybrid with graphene oxide for outstanding photoactivity and stability. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 951-961.	6.0	11
406	Metal Catalysts for Heterogeneous Catalysis: From Single Atoms to Nanoclusters and Nanoparticles. <i>Chemical Reviews</i> , 2018, 118, 4981-5079.	47.7	3,103
407	Cluster Expansion Method for Simulating Realistic Size of Nanoparticle Catalysts with an Application in CO ₂ Electroreduction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9245-9254.	3.1	17
408	Simultaneous formation of trimetallic Pt-Ni-Cu excavated rhombic dodecahedrons with enhanced catalytic performance for the methanol oxidation reaction. <i>Nano Research</i> , 2018, 11, 4786-4795.	10.4	58
409	Modeling the characteristic etch morphologies along specific crystallographic orientations by anisotropic chemical etching. <i>AIP Advances</i> , 2018, 8, 025214.	1.3	1
410	Hollow Pt-Functionalized SnO ₂ Hemipill Network Formation Using a Bacterial Skeleton for the Noninvasive Diagnosis of Diabetes. <i>ACS Sensors</i> , 2018, 3, 661-669.	7.8	37

#	ARTICLE	IF	CITATIONS
411	Facile Synthesis of Porous Pd ₃ Pt Half-Shells with Rich Active Sites as Efficient Catalysts for Formic Acid Oxidation. <i>Small</i> , 2018, 14, e1703940.	10.0	92
412	Hexamethylenetetramine-assisted hydrothermal synthesis of octahedral nickel ferrite oxide nanocrystallines with excellent supercapacitive performance. <i>Journal of Materials Science</i> , 2018, 53, 7621-7636.	3.7	63
413	Modelling free and oxide-supported nanoalloy catalysts: comparison of bulk-immiscible Pd-Ir and Au-Rh systems and influence of a TiO ₂ support. <i>Faraday Discussions</i> , 2018, 208, 53-66.	3.2	15
414	Electrochemical processes on solid shaped nanoparticles with defined facets. <i>Chemical Society Reviews</i> , 2018, 47, 715-735.	38.1	129
415	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1702222.	19.5	243
416	Unlocking the door to highly active ORR catalysts for PEMFC applications: polyhedron-engineered Pt-based nanocrystals. <i>Energy and Environmental Science</i> , 2018, 11, 258-275.	30.8	367
417	Oxygen vacancy regulation on tungsten oxides with specific exposed facets for enhanced visible-light-driven photocatalytic oxidation. <i>Nanoscale</i> , 2018, 10, 2908-2915.	5.6	92
418	Stability, structural and electronic properties of ternary Pd Au Ag clusters (x ⁺ y ⁻ z ⁻ =7): A theoretical study. <i>Computational and Theoretical Chemistry</i> , 2018, 1131, 69-77.	2.5	2
419	Effects of atom arrangement and thickness of Pt atomic layers on Pd nanocrystals for electrocatalysis. <i>Electrochimica Acta</i> , 2018, 271, 519-525.	5.2	6
420	Shape-controlled electrodeposition of single Pt nanocrystals onto carbon nanoelectrodes. <i>Faraday Discussions</i> , 2018, 210, 267-280.	3.2	13
421	Crystal Engineering for Catalysis. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2018, 9, 283-309.	6.8	37
422	Rational Design and Synthesis of Low-Temperature Fuel Cell Electrocatalysts. <i>Electrochemical Energy Reviews</i> , 2018, 1, 54-83.	25.5	87
423	Sonochemical fabrication of reduced graphene oxide supported Au nano dendrites for ethanol electrooxidation in alkaline medium. <i>Catalysis Today</i> , 2018, 307, 308-317.	4.4	20
424	Crystal plane control of 3D iron molybdate and the facet effect on gas sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 755-762.	7.8	32
425	Concave Cubes as Experimental Models of Catalytic Active Sites for the Oxygen-Assisted Coupling of Alcohols by Dilute (Ag)Au Alloys. <i>Topics in Catalysis</i> , 2018, 61, 348-356.	2.8	5
426	Entropic, Enthalpic, and Kinetic Aspects of Interfacial Nanocrystal Superlattice Assembly and Attachment. <i>Chemistry of Materials</i> , 2018, 30, 54-63.	6.7	40
427	Mesoporous layered hexagonal platelets of Co ₃ O ₄ nanoparticles with (111) facets for battery applications: high performance and ultra-high rate capability. <i>Nanoscale</i> , 2018, 10, 1779-1787.	5.6	47
428	Model Nanoparticles in Catalysis. , 2018, , 165-199.		3

#	ARTICLE	IF	CITATIONS
429	Advanced Electron Microscopy Techniques Toward the Understanding of Metal Nanoparticles and Clusters. , 2018, , 219-287.		3
430	A novel trimeric cationic surfactant as a highly efficient capping agent for the synthesis of trisoctahedral gold nanocrystals. CrystEngComm, 2018, 20, 7631-7636.	2.6	4
431	Graphene-Functionalized Biomimetic Scaffolds for Tissue Regeneration. Advances in Experimental Medicine and Biology, 2018, 1064, 73-89.	1.6	5
432	Cobalt Phosphate Nanostructures for Non-Enzymatic Glucose Sensing at Physiological pH. ACS Applied Materials & Interfaces, 2018, 10, 42786-42795.	8.0	64
433	Sensitive Colorimetric Hg ²⁺ Detection via Amalgamation-Mediated Shape Transition of Gold Nanostars. Frontiers in Chemistry, 2018, 6, 566.	3.6	28
434	Crystal Morphology and Phase Transformation of LiAlO ₂ : Combined Experimental and First-Principles Studies. Journal of Physical Chemistry C, 2018, 122, 28797-28804.	3.1	14
435	Use of Chemical Functionalities to Control Stability of Nanoparticles. , 2018, , 875-885.		19
436	Solvent-Mediated Shape Engineering of Fullerene (C ₆₀) Polyhedral Microcrystals. Chemistry of Materials, 2018, 30, 7146-7153.	6.7	37
437	Zinc-Supported Multiwalled Carbon Nanotube Nanocomposite: A Synergism to Micronutrient Release and a Smart Distributor To Promote the Growth of Onion Seeds in Arid Conditions. ACS Applied Materials & Interfaces, 2018, 10, 36733-36745.	8.0	29
438	Molecularly Defined Interface Created by Porous Polymeric Networks on Gold Surface for Concerted and Selective CO ₂ Reduction. ACS Sustainable Chemistry and Engineering, 2018, 6, 17277-17283.	6.7	26
439	Non-precious nanostructured materials by electrospinning and their applications for oxygen reduction in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2018, 408, 17-27.	7.8	45
440	An overview: Facet-dependent metal oxide semiconductor gas sensors. Sensors and Actuators B: Chemical, 2018, 277, 604-633.	7.8	286
441	The surface science of nanoparticles for catalysis: electronic and steric effects of organic ligands. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	16
442	Surface and Near-Surface Engineering of PtCo Nanowires at Atomic Scale for Enhanced Electrochemical Sensing and Catalysis. Chemistry of Materials, 2018, 30, 6660-6667.	6.7	32
443	Rapid Induction and Microwave Heat-Up Syntheses of CdSe Quantum Dots. ACS Omega, 2018, 3, 5399-5405.	3.5	13
444	Hematite dodecahedron crystals with high-index facets grown and grafted on one dimensional structures for efficient photoelectrochemical H ₂ generation. Nano Energy, 2018, 50, 331-338.	16.0	25
445	Facile synthesis of gold trisoctahedral nanocrystals with controllable sizes and dihedral angles. Nanoscale, 2018, 10, 11034-11042.	5.6	13
446	The promise of antireflective gold electrodes for optically monitoring the electro-deposition of single silver nanoparticles. Faraday Discussions, 2018, 210, 381-395.	3.2	16

#	ARTICLE	IF	CITATIONS
447	Laser-irradiation induced synthesis of spongy AuAgPt alloy nanospheres with high-index facets, rich grain boundaries and subtle lattice distortion for enhanced electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13735-13742.	10.3	32
448	Lanthanide-Coordinated Black Phosphorus. <i>Small</i> , 2018, 14, e1801405.	10.0	65
449	Utilizing Diselenide Precursors toward Rationally Controlled Synthesis of Metastable CuInSe_2 Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 5704-5713.	6.7	59
450	Sensitive Gas-Sensing by Creating Adsorption Active Sites: Coating an SnO_2 Layer on Triangle Arrays. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29092-29099.	8.0	20
451	Ultrathin PtPd-Based Nanorings with Abundant Step Atoms Enhance Oxygen Catalysis. <i>Advanced Materials</i> , 2018, 30, e1802136.	21.0	107
452	Titanium dioxide nanostructures for photoelectrochemical applications. <i>Progress in Materials Science</i> , 2018, 98, 299-385.	32.8	205
454	Unraveling Kinetically-Driven Mechanisms of Gold Nanocrystal Shape Transformations Using Graphene Liquid Cell Electron Microscopy. <i>Nano Letters</i> , 2018, 18, 5731-5737.	9.1	64
455	An improved genetic algorithm for structural optimization of Au-Ag bimetallic nanoparticles. <i>Applied Soft Computing Journal</i> , 2018, 73, 39-49.	7.2	19
456	Advanced Supporting Materials for Polymer Electrolyte Membrane Fuel Cells. , 0, , .		2
457	Electrocatalyst Preparation by Electrodeposition. , 2018, , 507-520.		1
458	Carbon Monoxide-Templated Synthesis of Coral-Like Clean PtPd Nanochains as Efficient Oxygen Reduction Catalyst. <i>ChemElectroChem</i> , 2018, 5, 2403-2408.	3.4	18
459	Synthesis, characterization, and thermal stability of $\text{SiO}_2/\text{TiO}_2/\text{CR-Ag}$ multilayered nanostructures. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	1
460	Construction of a bifunctional electrode interface for efficient electrochemical mineralization of recalcitrant pollutants. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 473-481.	20.2	33
461	Self-Assembled Metal Zinc Three-Dimensional Microstructures at Room Temperature. <i>Crystal Research and Technology</i> , 2018, 53, 1700148.	1.3	0
462	Characterization Tools and Techniques for Nanomaterials. , 2018, , 83-111.		12
463	Realizing large-scale and controllable fabrication of active cobalt oxide nanorod catalysts for zinc-air battery. <i>Chemical Engineering Science</i> , 2019, 194, 127-133.	3.8	21
464	Facile synthesis and electrochemical properties of $\text{LiNi}_0.8\text{Co}_0.15\text{Al}_0.05\text{O}_2$ with enlarged exposed active planes for Li-ion batteries. <i>Ionics</i> , 2019, 25, 827-834.	2.4	8
465	Current State and New Trends in the Use of Cellulose Nanomaterials for Wastewater Treatment. <i>Biomacromolecules</i> , 2019, 20, 573-597.	5.4	224

#	ARTICLE	IF	CITATIONS
466	Negative Thermal Expansion in Nanosolids. <i>Accounts of Chemical Research</i> , 2019, 52, 2694-2702.	15.6	14
467	Energetics at the Surface: Direct Optical Mapping of Core and Surface Electronic Structure in CdSe Quantum Dots Using Broadband Electronic Sum Frequency Generation Microspectroscopy. <i>Nano Letters</i> , 2019, 19, 6157-6165.	9.1	23
468	Turning bulk materials into OD, 1D and 2D metallic nanomaterials by selective aqueous corrosion. <i>Chemical Communications</i> , 2019, 55, 10476-10479.	4.1	12
469	Two-Dimensional Covalent Organic Frameworks (COFs) for Membrane Separation: a Mini Review. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15394-15406.	3.7	124
470	Modeling transport of colloidal particles through polydisperse fibrous membrane filters under unfavorable chemical and physical conditions. <i>Powder Technology</i> , 2019, 355, 7-17.	4.2	5
471	Shape-dependent structural and magnetic properties of Fe nanoparticles studied through simulation methods. <i>RSC Advances</i> , 2019, 9, 22057-22063.	3.6	20
472	Facilitating the C-C bond cleavage on sub-10 nm concavity-tunable Rh@Pt core-shell nanocubes for efficient ethanol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17987-17994.	10.3	36
473	Morphology tuning of inorganic nanomaterials grown by precipitation through control of electrolytic dissociation and supersaturation. <i>Nature Chemistry</i> , 2019, 11, 695-701.	13.6	86
474	Cu ₂ O cubic and polyhedral structures versus commercial powder: Shape effect on photocatalytic activity under visible light. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 1016-1023.	5.2	15
475	Impact of nanoparticle magnetization on the 3D formation of dual-phase Ni/NiO nanoparticle-based nanotrusses. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	5
476	Thermally activated phase transitions in Fe-Ni core-shell nanoparticles. <i>Frontiers of Physics</i> , 2019, 14, 1.	5.0	0
477	Hydrothermal Synthesis of (001) Facet Highly Exposed ZnO Plates: A New Insight into the Effect of Citrate. <i>Crystals</i> , 2019, 9, 552.	2.2	15
478	Confined Catalysis: Progress and Prospects in Energy Conversion. <i>Advanced Energy Materials</i> , 2019, 9, 1902307.	19.5	79
479	Dosimetric comparisons of intensity-modulated radiation therapy and three-dimensional conformal radiation therapy for left-sided breast cancer after radical surgery. <i>Precision Radiation Oncology</i> , 2019, 3, 80-86.	1.1	1
480	Exploring taxonomic diversity and biogeography of the family Nemacheilinae (Cypriniformes). <i>Ecology and Evolution</i> , 2019, 9, 10343-10353.	1.9	7
481	Anisotropic nanomaterials for shape-dependent physicochemical and biomedical applications. <i>Chemical Society Reviews</i> , 2019, 48, 5140-5176.	38.1	150
482	Self-assembly and wetting properties of gold nanorod-CTAB molecules on HOPG. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 696-705.	2.8	21
483	Generalized Synthetic Strategy for Transition-Metal-Doped Brookite-Phase TiO ₂ Nanorods. <i>Journal of the American Chemical Society</i> , 2019, 141, 16548-16552.	13.7	78

#	ARTICLE	IF	CITATIONS
484	Quantitative evaluation of the surface stability and morphological changes of Cu ₂ O particles. <i>Heliyon</i> , 2019, 5, e02500.	3.2	22
485	Enhanced Photocatalytic Generation with Selectable Wavelengths by Au-Decorated CuInS ₂ Nanocrystals (M = Au and Pt) Synthesized in a Single Surfactant Process on MoS ₂ Bilayers. <i>Small</i> , 2019, 15, e1803529.	10.0	35
486	Pt-Based electrocatalysts with high atom utilization efficiency: from nanostructures to single atoms. <i>Energy and Environmental Science</i> , 2019, 12, 492-517.	30.8	400
487	An aligned octahedral core in a nanocage: synthesis, plasmonic, and catalytic properties. <i>Nanoscale</i> , 2019, 11, 3138-3144.	5.6	12
488	Size and shape controlled synthesis of rhodium nanoparticles. <i>Heliyon</i> , 2019, 5, e01165.	3.2	26
489	Ar Plasma-Exfoliated Ultrathin NiCo-Layered Double Hydroxide Nanosheets for Enhanced Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 1162-1168.	5.1	65
490	Concentration-Mediated Shape Evolution of Palladium Nanocrystals and Their Structure-Electrocatalytic Functionality. <i>Crystal Growth and Design</i> , 2019, 19, 1532-1539.	3.0	12
491	TiO ₂ Surface Engineering to Improve Nanostability: The Role of Interface Segregation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4949-4960.	3.1	25
492	Gold nanorods-based hybrids with tailored structures for photoredox catalysis: fundamental science, materials design and applications. <i>Nano Today</i> , 2019, 27, 48-72.	11.9	104
493	Fabrication of a covalent organic framework and its gold nanoparticle hybrids as stable mimetic peroxidase for sensitive and selective colorimetric detection of mercury in water samples. <i>Talanta</i> , 2019, 204, 224-228.	5.5	66
494	Synthesis and characterization of CuFeS ₂ and Se doped CuFeS ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12269-12274.	2.2	6
495	Ni/ZnO heterostructured microspheres: electronic structure engineering for enhanced photocatalytic activity. <i>Materials Research Express</i> , 2019, 6, 0850e5.	1.6	0
496	A molecular dynamics study: structural and thermal evolution of 147 atom Co ₂ Au nanoalloys. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	8
497	Carbon vacancy defect-activated Pt cluster for hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15364-15370.	10.3	57
498	Synthesis of high efficient and stable plasmonic photocatalyst Ag/AgNbO ₃ with specific exposed crystal-facets and intimate heterogeneous interface via combustion route. <i>Applied Surface Science</i> , 2019, 488, 485-493.	6.1	24
499	<i>In Situ</i> Imaging Facet-Induced Spatial Heterogeneity of Electrocatalytic Reaction Activity at the Subparticle Level via Electrochemiluminescence Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 6829-6835.	6.5	35
500	Application of nano-structured materials in anaerobic digestion: Current status and perspectives. <i>Chemosphere</i> , 2019, 229, 188-199.	8.2	95
501	Synergetic effects of strain engineering and substrate defects on generating highly efficient single-atom catalysts for CO oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9297-9304.	10.3	12

#	ARTICLE	IF	CITATIONS
502	Synthesis strategies and potential applications of metal-organic frameworks for electrode materials for rechargeable lithium ion batteries. <i>Coordination Chemistry Reviews</i> , 2019, 388, 293-309.	18.8	104
503	Ultrathin SnO ₂ nanosheets with dominant high-energy {001} facets for low temperature formaldehyde gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 186-194.	7.8	101
504	Effects of cobalt oxide nanomaterial on plants and soil invertebrates at different levels of biological organization. <i>Journal of Soils and Sediments</i> , 2019, 19, 3018-3034.	3.0	10
505	Immobilization of Protein A on Monodisperse Magnetic Nanoparticles for Biomedical Applications. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-9.	2.7	20
506	Facile Synthesis of Pd Nanocubes with Assistant of Iodide and Investigation of Their Electrocatalytic Performances Towards Formic Acid Oxidation. <i>Nanomaterials</i> , 2019, 9, 375.	4.1	11
507	A New Tetrasubstituted Imidazole Based Difunctional Probe for UV-spectrophotometric and Fluorometric Detecting of Fe ³⁺ Ion in Aqueous Solution. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 200-208.	2.6	6
508	Comparison study of zinc nanoparticles and zinc sulphate on wheat growth: From toxicity and zinc biofortification. <i>Chemosphere</i> , 2019, 227, 109-116.	8.2	195
509	Silver-Assisted Synthesis of High-Indexed Palladium Tetrahedral Nanoparticles and Their Morphological Variants. <i>Chemistry of Materials</i> , 2019, 31, 2923-2929.	6.7	13
510	Nanoparticle-Based Diamond Electrodes. <i>Topics in Applied Physics</i> , 2019, , 257-312.	0.8	0
511	Advanced Catalysts Derived from Composition-Segregated Platinum-Nickel Nanostructures: New Opportunities and Challenges. <i>Advanced Functional Materials</i> , 2019, 29, 1808161.	14.9	38
512	Recent Advances on Controlled Synthesis and Engineering of Hollow Alloyed Nanotubes for Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1803503.	21.0	81
513	Pd Nanocrystals with Continuously Tunable High-Index Facets as a Model Nanocatalyst. <i>ACS Catalysis</i> , 2019, 9, 3144-3152.	11.2	68
514	Fabrication of Superior Single-Atom Catalysts toward Diverse Electrochemical Reactions. <i>Small Methods</i> , 2019, 3, 1800497.	8.6	99
515	Numerical simulation of a microfluidic system for regular glucose measurement. , 2019, , .		1
516	Probing Structural Reconstruction of Metal Nanoparticles under Annealing and Water Vapor Conditions: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29783-29793.	3.1	7
517	Editorial: Electrocatalysis on Shape-Controlled Nanoparticles. <i>Frontiers in Chemistry</i> , 2019, 7, 885.	3.6	1
518	Cellulose-Cyclodextrin Co-Polymer for the Removal of Cyanotoxins on Water Sources. <i>Polymers</i> , 2019, 11, 2075.	4.5	12
519	Fabrication of Hierarchical Co/MgO Catalyst for Enhanced CO ₂ Reforming of CH ₄ in a Fluidized-Bed Reactor. <i>AIChE Journal</i> , 2019, 65, 120-131.	3.6	14

#	ARTICLE	IF	CITATIONS
520	MnxOy- based cathodes for oxygen reduction reaction catalysis in microbial fuel cells. International Journal of Hydrogen Energy, 2019, 44, 4432-4441.	7.1	21
522	Microwave-power-enabled tuning of NiCo double hydroxide nanostructures. Journal of Materials Science, 2019, 54, 6088-6097.	3.7	0
523	A Simple and Fast Method to Synthesize Cubic Iridium Nanoparticles with Clean Surface Free from Surfactants. Nanomaterials, 2019, 9, 76.	4.1	13
524	Increasing sensing sensitivity of the Fe- γ -Fe ₂ O ₃ (104) surface by hydrogenation and the sensing reaction molecule mechanism. Sensors and Actuators B: Chemical, 2019, 281, 366-374.	7.8	17
525	Exposed facet engineering design of graphene-SnO ₂ nanorods for ultrastable Li-ion batteries. Energy Storage Materials, 2019, 19, 39-47.	18.0	53
526	Trace electro sprayed nanopolystyrene facilitated dispersion of multiwalled carbon nanotubes: Simultaneously strengthening and toughening epoxy. Carbon, 2019, 142, 131-140.	10.3	150
527	Structural Design and Electronic Modulation of Transitionâ€Metalâ€Carbide Electrocatalysts toward Efficient Hydrogen Evolution. Advanced Materials, 2019, 31, e1802880.	21.0	422
528	Construction of hierarchical functional nanomaterials for energy conversion and storage. Particuology, 2020, 48, 34-47.	3.6	6
529	A review on the synthesis of the various types of anatase TiO ₂ facets and their applications for photocatalysis. Chemical Engineering Journal, 2020, 384, 123384.	12.7	211
530	Charge Distribution and Stability of SiO ₂ Nanoarray Electret. ChemNanoMat, 2020, 6, 212-217.	2.8	2
531	The Emergence of Plant Nanobionics and Living Plants as Technology. Advanced Materials Technologies, 2020, 5, 1900657.	5.8	70
532	Template free synthesis of calcium-tin (CaSn ₃) bimetallic micro cubes: Characterization, catalytic activity, adsorption and additive properties. Chemical Physics Letters, 2020, 739, 136917.	2.6	8
533	Effective preparation of Ni _{1.4} Co _{0.6} P@C micro-spheres with prolonged cycling lives for high performance hybrid supercapacitors. Journal of Alloys and Compounds, 2020, 818, 152828.	5.5	25
534	OberflĂchenstabilisatoren und ihre Rolle bei der formkontrollierten Synthese von kolloidalen Metallâ€Nanokristallen. Angewandte Chemie, 2020, 132, 15498-15523.	2.0	3
535	Surface Capping Agents and Their Roles in Shapeâ€Controlled Synthesis of Colloidal Metal Nanocrystals. Angewandte Chemie - International Edition, 2020, 59, 15378-15401.	13.8	180
536	An aqueous synthesis of porous PtPd nanoparticles with reversed bimetallic structures for highly efficient hydrogen generation from ammonia borane hydrolysis. Nanoscale, 2020, 12, 638-647.	5.6	72
537	CeO ₂ facets control: from single (100) to multiple. RSC Advances, 2020, 10, 1271-1274.	3.6	4
538	Nanorods of cerium oxide as an improved electrocatalyst for enhanced oxygen reduction in single-chambered microbial biofuel cells. Materials Research Express, 2020, 7, 015514.	1.6	5

#	ARTICLE	IF	CITATIONS
539	A stable and easily prepared copper oxide catalyst for degradation of organic pollutants by peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2020, 387, 121995.	12.4	119
540	Boosting Superior Lithium Storage Performance of Alloy-Based Anode Materials via Ultraconformal Sb Coating-Derived Favorable Solid-Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2020, 10, 1903186.	19.5	29
541	Recent progress in noble metal nanocluster and single atom electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22467-22487.	10.3	92
542	Controlling Optically Driven Atomic Migration Using Crystal-Facet Control in Plasmonic Nanocavities. <i>ACS Nano</i> , 2020, 14, 10562-10568.	14.6	34
543	Boosting Bifunctional Oxygen Reduction and Methanol Oxidation Electrocatalytic Activity with 2D Superlattice-Forming Pd Nanocubes Generated by Precise Acid Etching. <i>ACS Applied Nano Materials</i> , 2020, 3, 8117-8125.	5.0	21
544	The efflorescent carbon allotropes: fractality preserved blooming through alkali treatment and exfoliation. <i>Nano Express</i> , 2020, 1, 020010.	2.4	0
545	Biogas and methane production efficiency of sewage sludge supplemented with conductive materials. <i>International Journal of Global Warming</i> , 2020, 20, 353.	0.5	1
546	Can the properties of engineered nanoparticles be indicative of their functions and effects in plants?. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111128.	6.0	28
547	Tire-track resistance performance of acrylic resin emulsion coatings for colored asphalt pavements. <i>Road Materials and Pavement Design</i> , 2022, 23, 874-889.	4.0	2
548	The morphology evolution, tunable down-conversion luminescence, and energy transfer of [CaY]F ₂ crystals doped with Li ⁺ /Ce ³⁺ /Tb ³⁺ . <i>Dalton Transactions</i> , 2020, 49, 15433-15442.	3.3	4
549	Stretchable Electrode Based on Au@Pt Nanotube Networks for Real-Time Monitoring of ROS Signaling in Endothelial Mechanotransduction. <i>Analytical Chemistry</i> , 2020, 92, 15639-15646.	6.5	29
550	Facet dependent catalytic activities of anatase TiO ₂ for CO ₂ adsorption and conversion. <i>Applied Surface Science</i> , 2020, 531, 147330.	6.1	16
551	TiO ₂ Nanoparticles Prepared by Sol-Gel Method for Anode Application in Lithium-Ion Batteries. , 0, , .		0
552	Photoinitiated Transformation of Nanocrystal Superlattice Polymorphs Assembled at a Fluid Interface. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001064.	3.7	3
553	Layered and Heterostructured Pd/PdWCr Sheet-Assembled Nanoflowers as Highly Active and Stable Electrocatalysts for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2020, 30, 2003933.	14.9	81
554	Two-Electron-Two-Proton Transfer from Colloidal ZnO and TiO ₂ Nanoparticles to Molecular Substrates. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7687-7691.	4.6	20
555	Copper oxide nanosheets prepared by facile microplasma electrochemical technique with photocatalytic and bactericidal activities. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16649-16660.	2.2	7
556	Novel Hybrid Nanoparticles: Synthesis, Functionalization, Characterization, and Their Application in the Uptake of Scandium (III) Ions from Aqueous Media. <i>Materials</i> , 2020, 13, 5727.	2.9	9

#	ARTICLE	IF	CITATIONS
557	Nanosized Metal/Metal Oxides for Auto-Exhaust Purification. ACS Symposium Series, 2020, , 373-401.	0.5	0
558	Dual roles of underpotential deposition in the synthesis of tetrahedral Pd@Ag alloy nanocrystals. Chemical Communications, 2020, 56, 14849-14852.	4.1	7
559	Improvement of the carbon monoxide gas sensing properties of polyaniline in the presence of gold nanoparticles at room temperature. Synthetic Metals, 2020, 265, 116404.	3.9	36
560	Insights into the Pd nanocatalysts directed by morphology effect for CO and methyl nitrite coupling to dimethyl oxalate. Molecular Catalysis, 2020, 490, 110949.	2.0	5
561	Coupled Dynamics of Colloidal Nanoparticle Spreading and Self-Assembly at a Fluid-Fluid Interface. Langmuir, 2020, 36, 6106-6115.	3.5	19
562	Selective Cl-Decoration on Nanocrystal Facets of Hematite for High-Efficiency Catalytic Oxidation of Cyclohexane: Identification of the Newly Formed Cl-O as Active Sites. ACS Applied Materials & Interfaces, 2020, 12, 26733-26745.	8.0	34
563	Defects engineering of bimetallic Ni-based catalysts for electrochemical energy conversion. Coordination Chemistry Reviews, 2020, 418, 213372.	18.8	41
564	Applications of Nanomaterials in Human Health. , 2020, , .		21
565	Insight in the relationship between magnetism of stoichiometric spinel ferrites and their catalytic activity. Catalysis Communications, 2020, 140, 105986.	3.3	4
566	Silicon-air batteries: progress, applications and challenges. SN Applied Sciences, 2020, 2, 1.	2.9	10
567	Application of Nanomaterials in Treatment of Microbial and Viral Infections. , 2020, , 173-190.		0
568	Elucidating the grain-orientation dependent corrosion rates of austenitic stainless steels. Materials and Design, 2020, 191, 108583.	7.0	46
569	Nanotechnology and remediation of agrochemicals. , 2020, , 487-533.		5
570	Revealing Facet Effects of Palladium Nanocrystals on Electrochemical Biosensing. ACS Applied Materials & Interfaces, 2020, 12, 15622-15630.	8.0	16
571	Ligand-Mediated Phase Control in Colloidal AgInSe ₂ Nanocrystals. Chemistry of Materials, 2020, 32, 2935-2945.	6.7	23
572	Low-Coordinate Step Atoms via Plasma-Assisted Calcinations to Enhance Electrochemical Reduction of Nitrogen to Ammonia. Small, 2020, 16, e2000421.	10.0	24
573	Electrochemical Reactivity under Confinement Enabled by Molecularly Pillared 2D and Layered Materials. Chemistry of Materials, 2020, 32, 3325-3334.	6.7	32
574	From low to high-index facets of noble metal nanocrystals: a way forward to enhance the performance of electrochemical CO ₂ reduction. Nanoscale, 2020, 12, 8626-8635.	5.6	28

#	ARTICLE	IF	CITATIONS
575	Review on nanomaterials for next-generation batteries with lithium metal anodes. <i>Nano Select</i> , 2020, 1, 94-110.	3.7	14
576	PdPt concave nanocubes directly electrodeposited on carbon paper as high active and durable catalysts for formic acid and ethanol oxidation. <i>Electrochimica Acta</i> , 2020, 354, 136654.	5.2	31
577	Shape-controlled synthesis of the metal-organic framework MIL-125 towards a highly enhanced catalytic performance for the oxidative desulfurization of 4,6-dimethyldibenzothiophene. <i>Dalton Transactions</i> , 2020, 49, 10052-10057.	3.3	27
578	Adsorption processes for the removal of contaminants from wastewater. , 2020, , 161-222.		167
579	Imaging Beam-Sensitive Materials by Electron Microscopy. <i>Advanced Materials</i> , 2020, 32, e1907619.	21.0	104
580	Recovery of Au Nanoparticles via High-Solubility Carboxylic Starch and its Significantly Improved Catalysis of Propylene Epoxidation. <i>Starch/Staerke</i> , 2020, 72, 1900313.	2.1	2
581	Assembly of cerium-based coordination polymer into variant polycrystalline 2D-3D CeO ₂ nanostructures. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4753-4763.	10.3	20
582	In-situ carbon-coated tin oxide (ISCC-SnO ₂) for micro-supercapacitor applications. <i>Carbon Letters</i> , 2020, 30, 699-707.	5.9	16
583	Watching nanomaterials with X-ray eyes: Probing different length scales by combining scattering with spectroscopy. <i>Progress in Materials Science</i> , 2020, 112, 100667.	32.8	21
584	Ir(0) and Pt(0) nanoparticle-triazine dendrimer composites. <i>Journal of Coordination Chemistry</i> , 2020, 73, 544-557.	2.2	2
585	Fe content and calcination temperature effects on CuO nanoparticles. <i>Hyperfine Interactions</i> , 2020, 241, 1.	0.5	5
586	Critical analysis of various supporting mediums employed for the incapacitation of silver nanomaterial for aniline and phenolic pollutants: A review. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 248-263.	2.7	10
587	Well-Defined Nanostructures for Electrochemical Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2001537.	19.5	102
588	Homoepitaxial growth of ZnO nanostructures from bulk ZnO. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 135-141.	9.4	0
589	Atomic Layer Deposition of High-Capacity Anodes for Next-Generation Lithium-Ion Batteries and Beyond. <i>Energy and Environmental Materials</i> , 2021, 4, 363-391.	12.8	43
590	Interface Inversion: A Promising Strategy to Configure Ultrafine Nanoparticles over Graphene for Fast Sodium Storage. <i>Small</i> , 2021, 17, 2005119.	10.0	6
591	Ultrastable Plasmonic Cu-Based Core-Shell Nanoparticles. <i>Chemistry of Materials</i> , 2021, 33, 695-705.	6.7	29
592	Performance Improvement of NO ₂ Gas Sensor Using Rod-Patterned Tantalum Pentoxide-Alloyed Indium Oxide Sensing Membranes. <i>IEEE Sensors Journal</i> , 2021, 21, 2134-2139.	4.7	7

#	ARTICLE	IF	CITATIONS
593	Effect of the Loading of Metal Salts on the Formation of Fe-Co Solid Solution Nanoparticles in the IR-Pyrolyzed Chitosan Matrix. Russian Journal of General Chemistry, 2021, 91, 108-114.	0.8	2
594	Gold-based nanoalloys: synthetic methods and catalytic applications. Journal of Materials Chemistry A, 2021, 9, 19025-19053.	10.3	16
595	Ru Nanoworms Loaded TiO ₂ for Their Catalytic Performances toward CO Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 5079-5087.	8.0	22
596	Surface engineering of Rh-modified Pd nanocrystals by colloidal underpotential deposition for electrocatalytic methanol oxidation. Nanoscale, 2021, 13, 5284-5291.	5.6	13
597	Recent advancements in coinage metal nanostructures and bio-applications. Materials Advances, 2021, 2, 1507-1529.	5.4	22
598	Autonomous optimisation of a nanoparticle catalysed reduction reaction in continuous flow. Chemical Communications, 2021, 57, 4926-4929.	4.1	16
599	Bridging hexatic and tetratic phases in binary mixtures through near critical point fluctuations. Physical Review Materials, 2021, 5, .	2.4	6
600	General Programmable Growth of Hybrid Core-Shell Nanostructures with Liquid Metal Nanodroplets. Advanced Materials, 2021, 33, e2008024.	21.0	28
601	3D Porous Polymeric-Foam-Supported Pd Nanocrystal as a Highly Efficient and Recyclable Catalyst for Organic Transformations. ACS Applied Materials & Interfaces, 2021, 13, 10120-10130.	8.0	14
602	The effect of solvents on the growth and key properties of tin oxide thin films deposited via chemical spray pyrolysis. Materials Chemistry and Physics, 2021, 261, 124209.	4.0	10
603	The role of ligands in pressure-induced phase transition of gold nanoribbons. Phase Transitions, 2021, 94, 123-133.	1.3	2
604	A Convenient and Sensitive Colorimetric Iodide Assay Based on Directly Inducing Morphological Transformation of Gold Nanostars. Journal of Food and Drug Analysis, 2021, 29, 144-152.	1.9	7
605	Recent Advances in Amino-Based Molecules Assisted Control of Noble-Metal Electrocatalysts. Small, 2021, 17, 2007179.	10.0	19
606	Low-Temperature CO ₂ Thermal Reduction to Graphitic and Diamond-like Carbons Using Perovskite-Type Titanium Nanoceramics by Quasi-High-Pressure Reactions. ACS Sustainable Chemistry and Engineering, 2021, 9, 3860-3873.	6.7	5
607	Structural Evolution of the Surface and Interface in Bimetallic High-Index Faceted Heterogeneous Nanoparticles. Journal of Physical Chemistry Letters, 2021, 12, 2454-2462.	4.6	5
608	Facile d-band tailoring in Sub-10 nm Pd cubes by in-situ grafting on nitrogen-doped graphene for highly efficient organic transformations. Journal of Colloid and Interface Science, 2021, 590, 175-185.	9.4	12
609	A Semi-analytical and Experimental Approach Using Molecular Dynamic Simulation for Thermo-mechanical Properties of Surface Functionalized Epoxy/Polyurethane/MWCNT/ZnMoO ₄ Nanocomposites. Fibers and Polymers, 2021, 22, 2306-2315.	2.1	2
610	Surface/Near-Surface Structure of Highly Active and Durable Pt-Based Catalysts for Oxygen Reduction Reaction: A Review. Advanced Energy and Sustainability Research, 2021, 2, 2100025.	5.8	4

#	ARTICLE	IF	CITATIONS
611	Link between Structural and Optical Properties of Co _x Fe _{3-x} O ₄ Nanoparticles and Thin Films with Different Co/Fe Ratios. Journal of Physical Chemistry C, 2021, 125, 14356-14365.	3.1	9
612	Advanced Research Progress on High-Efficient Utilization of Pt Electrocatalysts in Fuel Cells. Energy Technology, 2021, 9, 2100227.	3.8	8
613	Toward the Specificity of Bare Nanomaterial Surfaces for Protein Corona Formation. International Journal of Molecular Sciences, 2021, 22, 7625.	4.1	8
614	Atomic Regulation of PGM Electrocatalysts for the Oxygen Reduction Reaction. Frontiers in Chemistry, 2021, 9, 699861.	3.6	6
615	In Situ Confining Pt Clusters in Ultrathin MnO ₂ Nanosheets for Highly Efficient Hydrogen Evolution Reaction. Small Structures, 2021, 2, 2100047.	12.0	60
616	Hollow InVO ₄ Nanocuboid Assemblies toward Promoting Photocatalytic N ₂ Conversion Performance. Advanced Materials, 2021, 33, e2006780.	21.0	38
617	Molecular Dynamics Simulations of Thermally Induced Surface and Shape Evolution of Concave Au Nanocubes: Implications for Catalysis. ACS Applied Nano Materials, 2021, 4, 9527-9535.	5.0	2
618	Ordered nanostructures arrays fabricated by anodic aluminum oxide (AAO) template-directed methods for energy conversion. Nanotechnology, 2021, 32, 502006.	2.6	13
619	Versatile Design of Functional Organic-Inorganic 3D-Printed (Opto)Electronic Interfaces with Custom Catalytic Activity. Small, 2021, 17, e2103189.	10.0	14
620	N-doped three-dimensional graphene aerogel with a high loading of Ag particles as an efficient catalyst and antibacterial agent. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 126886.	4.7	10
621	Facet dependent catalytic activity of Pd nanocrystals for the remedy of organic Pollutant: A mechanistic study. Applied Surface Science, 2021, 570, 150775.	6.1	7
622	Cl ⁺ -Induced selective fabrication of 3D AgCl microcrystals by a one-pot synthesis method. CrystEngComm, 2021, 23, 5116-5123.	2.6	3
623	Shape transformations of Pt nanocrystals enclosed with high-index facets and low-index facets. CrystEngComm, 2021, 23, 6655-6660.	2.6	5
624	Shape-controlled Pt nanocubes directly grown on carbon supports and their electrocatalytic activity toward methanol oxidation. Science Bulletin, 2017, 62, 943-949.	9.0	26
625	Controlled synthesis of three dimensional hierarchical graphene nanostructures from metal complexes as an anode material for lithium-ion batteries. CrystEngComm, 2020, 22, 3608-3617.	2.6	7
626	High energy surface x-ray diffraction applied to model catalyst surfaces at work. Journal of Physics Condensed Matter, 2021, 33, 073001.	1.8	11
627	Modeling the orientational and positional behavior of polyhedral nanoparticles at fluid-fluid interfaces. Physical Review Materials, 2017, 1, .	2.4	6
629	One-pot synthesis of gold trisoctahedra with high-index facets. Advances in Materials Research (South Korea), 2012, 1, 1-12.	0.6	4

#	ARTICLE	IF	CITATIONS
631	Biogas and methane production efficiency of sewage sludge supplemented with conductive materials. International Journal of Global Warming, 2020, 20, 353.	0.5	1
632	Silver Nanoparticles: Biosynthesis and Antimicrobial Potentialities. International Journal of Pharmacology, 2017, 13, 832-845.	0.3	69
633	Nanoparticles as Adsorbent; A Positive Approach for Removal of Noxious Metal Ions: A Review. Science Technology and Development, 2015, 34, 195-214.	0.3	127
634	Molecular dynamics investigation of thermal stability of Pt-Au core-shell nanoparticle. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 126101.	0.5	2
635	Stable structure optimization of Au-Cu-Pt trimetallic nanoparticles based on genetic algorithm. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 153601.	0.5	5
636	Self-regeneration of supported transition metals by a high entropy-driven principle. Nature Communications, 2021, 12, 5917.	12.8	30
637	Shape and Structure-Controlled Metal Nanoparticles. Nanostructure Science and Technology, 2013, , 219-250.	0.1	0
638	Electrochemistry of Metal Nanoparticles and Quantum Dots. , 2015, , 1-25.		0
640	Electrochemistry of Metal Nanoparticles and Quantum Dots. , 2016, , 715-743.		1
641	Surface Treatment Strategies on Catalytic Metal Nanoparticles. , 2016, , 1101-1125.		0
642	Chapter 1 Advanced Anode Catalysts for Direct Alcohol Fuel Cells. , 2016, , 1-62.		0
643	Nano System Thermodynamics Research Progress. Hans Journal of Nanotechnology, 2017, 07, 29-39.	0.0	1
644	Utilization of Nano-Black Sand as filler in Styrene Butadiene Rubber composites. Egyptian Journal of Chemistry, 2019, .	0.2	0
645	Exploiting nanoscale effects enables ultra-low temperature to produce porous silicon. RSC Advances, 2021, 11, 35182-35186.	3.6	1
646	Causation of catalytic activity of Cu-ZnO for CO2 hydrogenation to methanol. Chemical Engineering Journal, 2022, 430, 132784.	12.7	27
647	Metal and metal oxide amorphous nanomaterials towards electrochemical applications. Chemical Communications, 2021, 58, 223-237.	4.1	22
648	Scanning probe microscopy for electrocatalysis. Matter, 2021, 4, 3483-3514.	10.0	17
649	Fluorine and phosphorus co-doped TiO2(001) nanosheets as a high-stability visible light-driven photocatalyst. Journal of Environmental Chemical Engineering, 2021, 9, 106719.	6.7	6

#	ARTICLE	IF	CITATIONS
650	The anisotropy electrochemical corrosion behavior of Ni-based single crystal superalloy on different crystal planes: An investigation from the film growth aspect. <i>Applied Surface Science</i> , 2022, 576, 151785.	6.1	18
651	Solution-“Liquid”-Solid Growth of One-Dimensional Metal-Oxide Nanostructures Assisted by Catalyst Design. <i>Chemistry of Materials</i> , 0, , .	6.7	1
652	Antibacterial Properties and Mechanism of Lysozyme-Modified ZnO Nanoparticles. <i>Frontiers in Chemistry</i> , 2021, 9, 762255.	3.6	2
653	3D printing of TiO ₂ nano particles containing macrostructures for As(III) removal in water. <i>Science of the Total Environment</i> , 2022, 815, 152754.	8.0	10
654	Enhanced sensitivity of hydrogenated \pm -Fe ₂ O ₃ nanoplates having {001} facets and the gas sensing mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3617-3630.	2.2	1
655	Iridium-based electrocatalysts toward sustainable energy conversion. <i>EcoMat</i> , 2022, 4, .	11.9	16
656	Advances on catalytic reduction of 4-nitrophenol by nanostructured materials as benchmark reaction. <i>International Nano Letters</i> , 2022, 12, 223-242.	5.0	46
657	Flower-like nanosheets FeCo ₂ O ₄ for application in supercapacitor and dye-sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3648-3669.	2.2	3
658	Operando electrochemical SERS monitors nanoparticle reactions by capping agent fingerprints. <i>Nano Research</i> , 2022, 15, 4517-4524.	10.4	7
659	The electrochemical energy storage and photocatalytic performances analysis of rare earth metal (Tb) Tj ETQq1 1 0,784314 rgBT /Overle	4.1	20
660	Advances in Graphene/Inorganic Nanoparticle Composites for Catalytic Applications. <i>Chemical Record</i> , 2022, 22, e202100274.	5.8	16
661	A Triple Bioinspired Surface Based on Perfluorodecyl Trimethoxysilane-Coated ZnO Nanosheets for Self-Driven Water Transport in a Flow Channel. <i>ACS Applied Nano Materials</i> , 2022, 5, 2280-2292.	5.0	6
662	Tuning the Shape of Gold-Silver Nanocrystals by Separately Controlling the Metal-Atom Concentration in a One-Pot Synthesis. <i>ChemistrySelect</i> , 2022, 7, .	1.5	0
663	Mycosynthesis of ultrasonically-assisted uniform cubic silver nanoparticles by isolated phenols from <i>Agaricus bisporus</i> and its antibacterial activity. <i>Surfaces and Interfaces</i> , 2022, 29, 101774.	3.0	13
664	Introduction to cellulose-based nanobiosorbents. , 2022, , 317-332.		0
665	Synthesis of flower-like manganese oxide for accelerated surface redox reactions on nitrogen-rich graphene of fast charge transport for sustainable aqueous energy storage. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7668-7676.	10.3	5
666	Designing Next Generation of Persistent Luminescence: Recent Advances in Uniform Persistent Luminescence Nanoparticles. <i>Advanced Materials</i> , 2022, 34, e2107962.	21.0	71
667	Critical size effect for the surface heat capacities of nano-CdS: theoretical and experimental studies. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6193-6207.	2.8	3

#	ARTICLE	IF	CITATIONS
668	Self-Assembly of Hausmannite Mn ₃ O ₄ Triangular Structures on Cocosin Protein Scaffolds for High Energy Density Symmetric Supercapacitor Application. <i>Langmuir</i> , 2022, 38, 2928-2941.	3.5	12
669	Cellulose-based beads for the adsorptive removal of wastewater effluents: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1965-2017.	16.2	34
670	Rhombic dodecahedral PtCo nanocrystals as a highly active electrocatalyst for methanol oxidation reaction. <i>Functional Materials Letters</i> , 2022, 15, .	1.2	3
671	New insights into the mechanism of localised corrosion induced by TiN-containing inclusions in high strength low alloy steel. <i>Journal of Materials Science and Technology</i> , 2022, 124, 141-149.	10.7	42
672	Nanomaterial Doping: Chemistry and Strategies for Agricultural Applications. <i>ACS Agricultural Science and Technology</i> , 2022, 2, 240-257.	2.3	5
673	Recent Advances and Mechanistic Insights into Antibacterial Activity, Antibiofilm Activity, and Cytotoxicity of Silver Nanoparticles. <i>ACS Applied Bio Materials</i> , 2022, 5, 1391-1463.	4.6	69
674	Enhanced low-temperature gas-sensing performance of Fe ₂ (MoO ₄) ₃ layered microplates. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , 1.	2.2	0
675	Microstructure-dependent etching behavior of a partially recrystallized Invar alloy. <i>Materials and Design</i> , 2022, 217, 110631.	7.0	5
676	Synthesis of Chiral Au Nanocrystals with Precise Homochiral Facets for Enantioselective Surface Chemistry. <i>Nano Letters</i> , 2022, 22, 2915-2922.	9.1	42
677	The Influence of a Crystallographically Atypical Pentagonal Nanostructured Coating on the Limiting Stage of Low-Temperature Hydrogen Transport through Pd-Cu Membranes. <i>Doklady Physics</i> , 2021, 66, 209-213.	0.7	5
678	Anomalous Kinetic Characteristics of Hydrogen Transport through Pd-Cu Membranes Modified by Pentatwinned Flower-Shaped Palladium Nanocrystallites with High-Index Facets. <i>Technical Physics Letters</i> , 2021, 47, 803-806.	0.7	7
679	Fundamental Processes and Practical Considerations of Lead Chalcogenide Mesocrystals Formed via Self-Assembly and Directed Attachment of Nanocrystals at a Fluid Interface. <i>Chemistry of Materials</i> , 2021, 33, 9457-9472.	6.7	6
680	Electrochemical DNA Biosensor Based on Platinum-gold Bimetal Decorated Graphene Modified Electrode for the Detection of <i>Vibrio parahaemolyticus</i> Specific Gene Sequence. <i>Current Analytical Chemistry</i> , 2022, 18, 781-789.	1.2	1
681	Inkjet printing of epitaxially connected nanocrystal superlattices. <i>Nano Research</i> , 2022, 15, 4536-4543.	10.4	5
682	Nanocatalysts for exhaust emissions reduction. , 2022, , 511-527.		0
684	Anti-Oriented-Attachment Growth of Layered Co _{0.85} Se Nanoarray with Highly Exposed Edges on Graphene Towards Superior Li-Ion Storage. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
685	Enhanced visible-light photocatalytic activity of hydrogenated Fe ₃ O ₄ nanooctahedrons with {111} polar facets in degradation of Basic Fuchsin and the photocatalytic mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 13095-13109.	2.2	1
686	Future of SMNs catalysts for industry applications. , 2022, , 319-346.		0

#	ARTICLE	IF	CITATIONS
687	Composite Assembling of Oxide-Based Optically Transparent Electrodes for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26791-26802.	8.0	12
688	Synthesis of 2D anatase TiO ₂ with highly reactive facets by fluorine-free topochemical conversion of 1T-TiS ₂ nanosheets. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13884-13894.	10.3	7
689	Co ₂ P nanorods with exposure of high-index facets for efficient photochemical reduction of CO ₂ by promoting the directional transfer of electrons. <i>Journal of Energy Chemistry</i> , 2022, 73, 322-329.	12.9	12
690	Thermal Activation of Gold Atom Diffusion in Au@Pt Nanorods. <i>ACS Nano</i> , 2022, 16, 9608-9619.	14.6	8
691	Grafting of silver nanospheres and nanoplates onto plasma activated PET: Effect of nanoparticle shape on antibacterial activity. <i>Vacuum</i> , 2022, 203, 111268.	3.5	2
692	Interfacial Unit-Dependent Catalytic Activity for CO Oxidation over Cerium Oxysulfate Cluster Assemblies. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33515-33524.	8.0	2
693	Anti-Oriented-Attachment Growth of Layered Co _{0.85} Se Nanoarray with Highly Exposed Edges on Graphene towards Superior Li-Ion Storage. <i>Journal of Alloys and Compounds</i> , 2022, , 166294.	5.5	1
694	Gold nanomaterials for biochemical sensing. <i>Gold Bulletin</i> , 2022, 55, 169-185.	2.4	8
695	Metal-supported cathodically activated graphite via self-reduction as electrocatalysts for efficient hydrogen evolution reaction. <i>Materials Today Chemistry</i> , 2022, 26, 101099.	3.5	0
696	Facet engineering of ultrathin two-dimensional materials. <i>Chemical Society Reviews</i> , 2022, 51, 7327-7343.	38.1	23
697	Benchmarking in electrocatalysis. , 2023, , 492-550.		2
698	The role of crystal facets and disorder on photo-electrosynthesis. <i>Nanoscale</i> , 2022, 14, 15596-15606.	5.6	4
699	Copper oxides activate peroxymonosulfate for degradation of methylene blue via radical and nonradical pathways: surface structure and mechanism. <i>Environmental Science and Pollution Research</i> , 0, , .	5.3	2
700	Effect of black sand nanoparticles on physical-mechanical properties of butyl rubber compounds. <i>Journal of Thermoplastic Composite Materials</i> , 2023, 36, 3361-3382.	4.2	1
701	Thermally Activated Microstructural Evolution of PtIrCu Alloyed Nanorings: Insights from Molecular Dynamics Simulations. <i>ACS Omega</i> , 2022, 7, 37436-37441.	3.5	0
702	Facile one-pot synthesis of polyethyleneimine functionalized γ -FeOOH nanorod consisted of single-layer parallel-aligned ultrathin nanowires for efficient removal of Cr (VI): Synergy of reduction and adsorption. <i>Science of the Total Environment</i> , 2023, 857, 159446.	8.0	3
703	Photostimulated Synthesis of Noble Metals Nanoparticles. <i>Naukovij VĖsnik ĀĖernĀ-vecĖkogo UnĀ-versitetu HĀ-mĀ-Āċ</i> , 2019, , 57-83.	0.0	0
704	Insight into the formation and biological effects of natural organic matter corona on silver nanoparticles in water environment using biased cyclical electrical field-flow fractionation. <i>Water Research</i> , 2023, 228, 119355.	11.3	3

#	ARTICLE	IF	CITATIONS
705	Effect of light at different wavelengths on polyol synthesis of silver nanocubes. <i>Scientific Reports</i> , 2022, 12, .	3.3	3
706	Design of Prussian Blue Analogue-Derived Magnetic Binary Ce-Fe Oxide Catalysts for the Selective Oxidation of Cyclohexane. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 17842-17853.	3.7	4
707	White light-emitting, biocompatible, water-soluble metallic magnesium nanoclusters for bioimaging applications. <i>Nanotechnology</i> , 2023, 34, 105702.	2.6	0
708	Superior sensing sensitivity of ZnFe ₂ O ₄ nano-octahedrons and sensing reaction molecule mechanism of polar ZnFe ₂ O ₄ {111} surfaces. <i>Journal of Alloys and Compounds</i> , 2023, 938, 168546.	5.5	2
709	One-dimensional hierarchical Cu ₂ O@SnS ₂ heterojunction with enhanced visible-light-driven photocatalytic activities. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	2.2	2
710	Electric, magnetic, and shear field-directed assembly of inorganic nanoparticles. <i>Nanoscale</i> , 2023, 15, 2018-2035.	5.6	5
711	Semi-quantitative determination of active sites in heterogeneous catalysts for photo/electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2023, 11, 2528-2543.	10.3	4
712	Unlock Restricted Capacity via O ₂ /Ce Hybridization for Li-Oxygen Batteries. <i>Advanced Materials</i> , 2023, 35, .	21.0	11
713	Electrolyte effects on the shape-controlled synthesis of Pt nanocrystals by electrochemical square-wave potential method. <i>Journal of Electroanalytical Chemistry</i> , 2023, 935, 117344.	3.8	0
714	Nanointerfaces: Concepts and Strategies for Optical and X-ray Spectroscopic Characterization. <i>ACS Physical Chemistry Au</i> , 0, , .	4.0	0
715	Critical Review on the Mechanisms of Fe ²⁺ Regeneration in the Electro-Fenton Process: Fundamentals and Boosting Strategies. <i>Chemical Reviews</i> , 2023, 123, 4635-4662.	47.7	67
716	Recent Advances of Seed-Mediated Growth of Metal Nanoparticles: from Growth to Applications. <i>Advanced Materials</i> , 2023, 35, .	21.0	15
717	Plate-Like Colloidal Metal Nanoparticles. <i>Chemical Reviews</i> , 2023, 123, 3493-3542.	47.7	24
718	Characterization of CrAl coating on stainless steel bipolar plates for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2024, 51, 1208-1226.	7.1	1
719	Functionalized nanofibers for fuel cell applications. , 2023, , 753-779.		0
720	Nucleation and Crystal Shape Engineering. , 2014, , 262-295.		0
721	Machine learning in energy chemistry: introduction, challenges and perspectives. <i>Energy Advances</i> , 2023, 2, 896-921.	3.3	6
722	Distinguishing homogeneous advanced oxidation processes in bulk water from heterogeneous surface reactions in organic oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	7.1	9

#	ARTICLE	IF	CITATIONS
723	Excimer laser processing of nanostructured SnO ₂ thin films and its impact on LPG sensing. <i>Materials Chemistry and Physics</i> , 2023, 304, 127905.	4.0	1
724	Ni-single atom decorated mesoporous carbon electrocatalysts for hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2023, 468, 143733.	12.7	19
725	Effect of Pd crystal facet on the reaction of oxygen-promoted hydrogen evolution from formaldehyde driven by visible light. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 673, 131820.	4.7	0
726	Rapid synthesis of concave gold nanocubes with tunable indentations and high index facets for enhanced catalytic performance. <i>Chemical Engineering Journal</i> , 2023, 470, 144044.	12.7	0
727	Role of BaTiO ₃ crystal surfaces on the electronic properties, charge separation and visible light response of the most active (001) surface of LaAlO ₃ : A hybrid density functional study. <i>Chemical Physics Impact</i> , 2023, 6, 100236.	3.5	1
728	Unraveling Anisotropic and Pulsating Etching of ZnO Nanorods in Hydrochloric Acid via Correlative Electron Microscopy. <i>ACS Nano</i> , 2023, 17, 12603-12615.	14.6	2
729	Facet Termination Promoted Uniform Zn (100) Deposition for High-Stable Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2023, 13, .	19.5	14
730	Role of electrode engineering in microbial electrochemical technologies for bioelectricity and biohydrogen production. , 2023, , 149-169.		0
732	Effect of molybdenum phosphorus-based single/double-atom catalysts on hydrogen evolution reaction: First principles. <i>International Journal of Hydrogen Energy</i> , 2024, 51, 957-969.	7.1	1
733	Recognition and Application of Catalysis in Secondary Rechargeable Batteries. <i>ACS Catalysis</i> , 2023, 13, 10641-10650.	11.2	4
734	Recent advances in microfluidics-enabled controlled reaction, assembly and exfoliation of inorganic nanomaterials. <i>CrystEngComm</i> , 0, , .	2.6	0
735	Enhancing Photocatalytic Degradation via the Synergetic Effect of Vacancies and Built-In Potential in a BiOCl/BiVO ₄ p-n Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 39332-39341.	8.0	2
736	Surface-structure tailoring of Dendritic PtCo nanowires for efficient oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2023, 652, 1597-1608.	9.4	2
737	High-efficiency removal of U(VI) from low-concentration uranium-bearing wastewater using ZnCl ₂ -modified activated carbon loading nZVI. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 0, , .	1.5	0
738	Quasi-In Situ Localized Corrosion of an Additively Manufactured FeCo Alloy in 5 Wt Pct NaCl Solution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2023, 54, 4515-4528.	2.2	0
739	Metal/covalent-organic frameworks-based electrochemical sensors for the detection of ascorbic acid, dopamine and uric acid. <i>Coordination Chemistry Reviews</i> , 2023, 497, 215427.	18.8	11
740	Covalent-organic porous framework (COF) integrated hybrid membranes for energy and environmental applications: Current and future perspectives. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, , 105067.	5.3	1
741	Nontypical Wulff-Shape Silicon Nanosheets with High Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2023, 145, 22620-22632.	13.7	1

#	ARTICLE	IF	CITATIONS
742	Thermal and structural stability evolution of Ni@Pd and Co@Pd â€“ Understanding from molecular dynamics simulations. <i>Materials Today Communications</i> , 2023, 37, 107092.	1.9	0
743	Surface ligand length influences kinetics of H-atom uptake in polyoxovanadate-alkoxide clusters. <i>Dalton Transactions</i> , 2023, 52, 15775-15785.	3.3	1
744	Initial localized corrosion induced by multiscale precipitates in the new generation high-strength Al-Zn-Mg-Cu alloy. <i>Corrosion Science</i> , 2023, 224, 111516.	6.6	2
745	A Universal Crossâ€“Synthetic Strategy for Subâ€“10Ânm Metalâ€“Based Composites with Excellent Ion Storage Kinetics. <i>Advanced Materials</i> , 2023, 35, .	21.0	5
746	Calorimetric Measurement of the Surface Energy of Enstatite, MgSiO ₃ . <i>Journal of Physical Chemistry C</i> , 2023, 127, 20106-20112.	3.1	0
747	CryoEM reveals the complex self-assembly of a chemically driven disulfide hydrogel. <i>Chemical Science</i> , 2024, 15, 1106-1116.	7.4	0
748	Antimicrobial silver nanoparticles for water disinfection: a short review on recent advances. <i>Nanotechnology for Environmental Engineering</i> , 2024, 9, 111-131.	3.3	0
749	Synthetic Principles of Spiky Au Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 0, , .	8.0	1
750	Recent Advances in Nanostructured Materials for Application as Gas Sensors. <i>ACS Omega</i> , 0, , .	3.5	0
751	Experimental and computational study on removal of nitric oxide using NH ₂ -MIL-125: Revisiting removal mechanism. <i>Molecular Catalysis</i> , 2024, 554, 113856.	2.0	0
752	SurfFlow: High-throughput surface energy calculations for arbitrary crystals. <i>Computational Materials Science</i> , 2024, 234, 112799.	3.0	0
753	Investigations on 1200 Â°C steam oxidation behavior of Cr coatings with distinct crystallographic orientation on Zircaloy-4 alloys. <i>Journal of Nuclear Materials</i> , 2024, 592, 154945.	2.7	0
754	Automated analysis of surface facets: the example of cesium telluride. <i>Npj Computational Materials</i> , 2024, 10, .	8.7	0
755	Surface structure determination by exhaustive search of asymmetric unit. <i>Physical Review B</i> , 2024, 109, .	3.2	0