Jiale Huang

List of Publications by Year
in descending order

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153 papers	7,517 citations	71061 41 h-index	60583 81 g-index
155 all docs	155 docs citations	155 times ranked	8492 citing authors

#	Article	IF	Citations
1	Biosynthesis of silver and gold nanoparticles by novel sundriedCinnamomum camphoraleaf. Nanotechnology, 2007, 18, 105104.	1.3	1,365
2	Bio-inspired synthesis of metal nanomaterials and applications. Chemical Society Reviews, 2015, 44, 6330-6374.	18.7	395
3	Green synthesis of palladium nanoparticles using broth of Cinnamomum camphora leaf. Journal of Nanoparticle Research, 2010, 12, 1589-1598.	0.8	310
4	Green synthesis of Auâ€“Pd bimetallic nanoparticles: Single-step bioreduction method with plant extract. Materials Letters, 2011, 65, 2989-2991.	1.3	184
5	Biogenic Silver Nanoparticles by Cacumen Platycladi Extract: Synthesis, Formation Mechanism, and Antibacterial Activity. Industrial & Engineering Chemistry Research, 2011, 50, 9095-9106.	1.8	171
6	Strong Near-Infrared Absorbing and Biocompatible CuS Nanoparticles for Rapid and Efficient Photothermal Ablation of Gram-Positive and -Negative Bacteria. ACS Applied Materials & Interfaces, 2017, 9, 36606-36614.	4.0	171
7	Rapid Preparation Process of Silver Nanoparticles by Bioreduction and Their Characterizations. Chinese Journal of Chemical Engineering, 2006, 14, 114-117.	1.7	168
8	Adsorption of anionic and cationic dyes on ferromagnetic ordered mesoporous carbon from aqueous solution: Equilibrium, thermodynamic and kinetics. Journal of Colloid and Interface Science, 2014, 430, 272-282.	5.0	149
9	Nature factory of silver nanowires: Plant-mediated synthesis using broth of Cassia fistula leaf. Chemical Engineering Journal, 2010, 162, 852-858.	6.6	129
10	Plant-mediated synthesis of platinum nanoparticles and its bioreductive mechanism. Journal of Colloid and Interface Science, 2013, 396, 138-145.	5.0	123
11	Ionic liquid-enhanced immobilization of biosynthesized Au nanoparticles on TS-1 toward efficient catalysts for propylene epoxidation. Journal of Catalysis, 2011, 283, 192-201.	3.1	117
12	Continuous-Flow Biosynthesis of Silver Nanoparticles by Lixivium of Sundried Cinnamomum camphora Leaf in Tubular Microreactors. Industrial & Engineering Chemistry Research, 2008, 47, 6081-6090.	1.8	107
13	Pd Supported on MIL-68(In)-Derived In₂O₃ Nanotubes as Superior Catalysts to Boost CO₂ Hydrogenation to Methanol. ACS Catalysis, 2020, 10, 13275-13289.	5.5	107
14	Biosynthesis of Gold Nanoparticles by Foliar Broths: Roles of Biocompounds and Other Attributes of the Extracts. Nanoscale Research Letters, 2010, 5, 1351-1359.	3.1	101
15	Liquid phase oxidation of benzyl alcohol to benzaldehyde with novel uncalcined bioreduction Au catalysts: High activity and durability. Chemical Engineering Journal, 2012, 187, 232-238.	6.6	100
16	Biosynthesized Bimetallic Auâ€“Pd Nanoparticles Supported on TiO₂ for Solvent-Free Oxidation of Benzyl Alcohol. ACS Sustainable Chemistry and Engineering, 2014, 2, 1752-1759.	3.2	100
17	Catalytic benzene oxidation by biogenic Pd nanoparticles over 3D-ordered mesoporous CeO2. Chemical Engineering Journal, 2019, 362, 41-52.	6.6	95
18	Green synthesis of Auâ€“Ag alloy nanoparticles using Cacumen platycladi extract. RSC Advances, 2013, 3, 1878-1884.	1.7	94

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19	Plant-mediated synthesis of highly active iron nanoparticles for Cr (VI) removal: Investigation of the leading biomolecules. Chemosphere, 2016, 150, 357-364.	4.2	93
20	Preparation of a graphitic ordered mesoporous carbon and its application in sorption of ciprofloxacin: Kinetics, isotherm, adsorption mechanisms studies. Microporous and Mesoporous Materials, 2016, 228, 196-206.	2.2	92
21	Enhanced catalytic benzene oxidation over a novel waste-derived Ag/eggshell catalyst. Journal of Materials Chemistry A, 2019, 7, 8832-8844.	5.2	91
22	Synthesis of gold nanoparticles by Cacumen Platycladi leaf extract and its simulated solution: toward the plant-mediated biosynthetic mechanism. Journal of Nanoparticle Research, 2011, 13, 4957-4968.	0.8	82
23	Bimetallic Auâ€“Pd/MgO as efficient catalysts for aerobic oxidation of benzyl alcohol: A green bio-reducing preparation method. Applied Catalysis A: General, 2012, 439-440, 179-186.	2.2	78
24	Biogenic flower-shaped Auâ€“Pd nanoparticles: synthesis, SERS detection and catalysis towards benzyl alcohol oxidation. Journal of Materials Chemistry A, 2014, 2, 1767-1773.	5.2	73
25	Influence of Au Particle Size on Au/TiO₂ Catalysts for CO Oxidation. Journal of Physical Chemistry C, 2014, 118, 19150-19157.	1.5	72
26	Plant-Mediated Synthesis of Agâ€“Pd Alloy Nanoparticles and Their Application as Catalyst toward Selective Hydrogenation. ACS Sustainable Chemistry and Engineering, 2014, 2, 1212-1218.	3.2	72
27	PdO/LaCoO3 heterojunction photocatalysts for highly hydrogen production from formaldehyde aqueous solution under visible light. International Journal of Hydrogen Energy, 2016, 41, 6115-6122.	3.8	70
28	M_xO_yâ€“ZrO₂ (M = Zn, Co, Cu) Solid Solutions Derived from Schiff Base-Bridged UiO-66 Composites as High-Performance Catalysts for CO₂ Hydrogenation. ACS Applied Materials & Interfaces, 2019, 11, 33263-33272.	4.0	68
29	Optimization of polyhydroxybutyrate (PHB) production by excess activated sludge and microbial community analysis. Journal of Hazardous Materials, 2011, 185, 8-16.	6.5	66
30	Ultra-efficient removal of chromium from aqueous medium by biogenic iron based nanoparticles. Separation and Purification Technology, 2017, 174, 466-473.	3.9	58
31	Biosynthesized gold nanoparticles supported over TS-1 toward efficient catalyst for epoxidation of styrene. Chemical Engineering Journal, 2014, 235, 215-223.	6.6	54
32	Monodisperse AgPd alloy nanoparticles as a highly active catalyst towards the methanolysis of ammonia borane for hydrogen generation. RSC Advances, 2016, 6, 105940-105947.	1.7	54
33	Anatase type extra-framework titanium in TS-1: A vital factor influencing the catalytic activity toward styrene epoxidation. Applied Catalysis A: General, 2013, 459, 1-7.	2.2	52
34	Plant-mediated synthesis of size-controllable Ni nanoparticles with alfalfa extract. Materials Letters, 2014, 122, 166-169.	1.3	51
35	Vapor-Phase Propylene Epoxidation with H₂/O₂ over Bioreduction Au/TS-1 Catalysts: Synthesis, Characterization, and Optimization. Industrial & Engineering Chemistry Research, 2011, 50, 9019-9026.	1.8	50
36	Supramolecular hydrogels for creating gold and silver nanoparticles in situ. Soft Matter, 2013, 9, 2017.	1.2	48

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37	Catalytic gold nanoparticles immobilized on yeast: From biosorption to bioreduction. Chemical Engineering Journal, 2013, 225, 857-864.	6.6	47
38	Kinetics of liquid phase oxidation of benzyl alcohol with hydrogen peroxide over bio-reduced Au/TS-1 catalysts. Journal of Molecular Catalysis A, 2013, 366, 215-221.	4.8	46
39	Green synthesis of Au/TS-1 catalysts via two novel modes and their surprising performance for propylene epoxidation. Catalysis Communications, 2011, 12, 830-833.	1.6	44
40	Heterogeneous Pd catalyst for mild solvent-free oxidation of benzyl alcohol. Journal of Molecular Catalysis A, 2016, 425, 61-67.	4.8	44
41	Biogenic Pt/CaCO₃ Nanocomposite as a Robust Catalyst toward Benzene Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 2469-2480.	4.0	44
42	A General Strategy for the Biosynthesis of Gold Nanoparticles by Traditional Chinese Medicines and Their Potential Application as Catalysts. Chemistry - an Asian Journal, 2009, 4, 1050-1054.	1.7	43
43	Coral-like CoMnO_x as a Highly Active Catalyst for Benzene Catalytic Oxidation. Industrial & Engineering Chemistry Research, 2019, 58, 2882-2890.	1.8	43
44	Green Photocatalytic Oxidation of Benzyl Alcohol over Noble-Metal-Modified H₂Ti₃O₇ Nanowires. ACS Sustainable Chemistry and Engineering, 2019, 7, 9717-9726.	3.2	42
45	Durable super-hydrophobic PDMS@SiO2@WS2 sponge for efficient oil/water separation in complex marine environment. Environmental Pollution, 2021, 269, 116118.	3.7	42
46	Two-step size- and shape-separation of biosynthesized gold nanoparticles. Separation and Purification Technology, 2013, 106, 117-122.	3.9	41
47	Efficient Ag/CeO2 catalysts for CO oxidation prepared with microwave-assisted biosynthesis. Chemical Engineering Journal, 2015, 269, 105-112.	6.6	40
48	Preparation and characterization of ethyl cellulose film modified with capsaicin. Carbohydrate Polymers, 2020, 241, 116259.	5.1	39
49	Fabrication of Pd/Î³-Al2O3 catalysts for hydrogenation of 2-ethyl-9,10-anthraquinone assisted by plant-mediated strategy. Chemical Engineering Journal, 2015, 262, 356-363.	6.6	38
50	Synthesis of Gold Nanoplates with Bioreducing Agent Using Syringe Pumps: A Kinetic Control. Industrial & Engineering Chemistry Research, 2012, 51, 15753-15762.	1.8	37
51	Microfluidic biosynthesis of silver nanoparticles: Effect of process parameters on size distribution. Chemical Engineering Journal, 2012, 209, 568-576.	6.6	37
52	Rape Pollen-Templated Synthesis of C,N Self-Doped Hierarchical TiO₂ for Selective Hydrogenation of 1,3-Butadiene. ACS Sustainable Chemistry and Engineering, 2018, 6, 882-888.	3.2	37
53	Activity and stability of titanosilicate supported Au catalyst for propylene epoxidation with H2 and O2. Molecular Catalysis, 2018, 448, 144-152.	1.0	35
54	Diatomite Supported Pt Nanoparticles as Efficient Catalyst for Benzene Removal. Industrial & Engineering Chemistry Research, 2019, 58, 14008-14015.	1.8	35

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55	Trisodium Citrate-Assisted Biosynthesis of Silver Nanoflowers by Canarium album Foliar Broths as a Platform for SERS Detection. Industrial & Engineering Chemistry Research, 2013, 52, 5085-5094.	1.8	34
56	Investigation of active biomolecules involved in the nucleation and growth of gold nanoparticles by Artocarpus heterophyllus Lam leaf extract. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	34
57	Alkaline extraction and acid precipitation of phenolic compounds from longan (Dimocarpus longan) Tj ETQq1 1 0.784314 rgBT /Overlo	3.9	34
58	Hydrogenation of CO₂ to Dimethyl Ether over Tandem Catalysts Based on Biotemplated Hierarchical ZSM-5 and Pd/ZnO. ACS Sustainable Chemistry and Engineering, 2020, 8, 14058-14070.	3.2	34
59	Titanium silicalite-1 zeolite encapsulating Au particles as a catalyst for vapor phase propylene epoxidation with H₂/O₂: a matter of Auâ€“Ti synergic interaction. Journal of Materials Chemistry A, 2020, 8, 4428-4436.	5.2	34
60	Green synthesized iron nanoparticles as highly efficient fenton-like catalyst for degradation of dyes. Chemosphere, 2020, 261, 127618.	4.2	33
61	Microorganism-mediated synthesis of chemically difficult-to-synthesize Au nanohorns with excellent optical properties in the presence of hexadecyltrimethylammonium chloride. Nanoscale, 2013, 5, 6599.	2.8	32
62	Bioelectricity generation from the decolorization of reactive blue 19 by using microbial fuel cell. Journal of Environmental Management, 2019, 248, 109310.	3.8	32
63	Plant-Mediated Fabrication and Surface Enhanced Raman Property of Flower-Like Au@Pd Nanoparticles. Materials, 2014, 7, 1360-1369.	1.3	30
64	Biosynthesized Ag/Î±-Al₂O₃ catalyst for ethylene epoxidation: the influence of silver precursors. RSC Advances, 2014, 4, 27597-27603.	1.7	29
65	Ni₂P-Graphite Nanoplatelets Supported Auâ€“Pd Coreâ€“Shell Nanoparticles with Superior Electrochemical Properties. Journal of Physical Chemistry C, 2015, 119, 10469-10477.	1.5	29
66	Propylene epoxidation over biogenic Au/TS-1 catalysts by Cinnamomum camphora extract in the presence of H2 and O2. Applied Surface Science, 2016, 366, 292-298.	3.1	29
67	Direct CO2 hydrogenation to light olefins over ZnZrOx mixed with hierarchically hollow SAPO-34 with rice husk as green silicon source and template. Applied Catalysis B: Environmental, 2022, 315, 121572.	10.8	29
68	Quantitative nucleation and growth kinetics of gold nanoparticles via model-assisted dynamic spectroscopic approach. Journal of Colloid and Interface Science, 2013, 407, 8-16.	5.0	28
69	Hydrothermal synthesis of 3D hollow porous Fe3O4 microspheres towards catalytic removal of organic pollutants. Nanoscale Research Letters, 2014, 9, 648.	3.1	28
70	Co-precipitation synthesis and two-step sintering of YAG powders for transparent ceramics. Ceramics International, 2013, 39, 7983-7988.	2.3	27
71	Cu2-xS loaded diatom nanocomposites as novel photocatalysts for efficient photocatalytic degradation of organic pollutants. Catalysis Today, 2019, 335, 228-235.	2.2	27
72	Waste eggshells to valuable Co3O4/CaCO3 materials as efficient catalysts for VOCs oxidation. Molecular Catalysis, 2020, 483, 110766.	1.0	27

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73	Fabrication of Pd/In₂O₃ Nanocatalysts Derived from MIL-68(In) Loaded with Molecular Metalloporphyrin (TCPP(Pd)) Toward CO₂ Hydrogenation to Methanol. ACS Catalysis, 2022, 12, 709-723.	5.5	27
74	Roles of Biomolecules in the Biosynthesis of Silver Nanoparticles: Case of Gardenia jasminoides Extract. Chinese Journal of Chemical Engineering, 2014, 22, 706-712.	1.7	25
75	Template-free synthesis of carbon self-doped ZnO superstructures as efficient support for ultra fine Pd nanoparticles and their catalytic activity towards benzene oxidation. Molecular Catalysis, 2019, 469, 118-130.	1.0	25
76	State of arts on the bio-synthesis of noble metal nanoparticles and their biological application. Chinese Journal of Chemical Engineering, 2021, 30, 272-290.	1.7	25
77	The development of bifunctional catalysts for carbon dioxide hydrogenation to hydrocarbonsviathe methanol route: from single component to integrated components. Journal of Materials Chemistry A, 2021, 9, 5197-5231.	5.2	25
78	Ascorbic acid assisted bio-synthesis of Pd-Pt nanoflowers with enhanced electrochemical properties.. Electrochimica Acta, 2017, 228, 474-482.	2.6	23
79	Design and Synthesis of Bioinspired ZnZrO_x&Bio-ZSM-5 Integrated Nanocatalysts to Boost CO₂ Hydrogenation to Light Olefins. ACS Sustainable Chemistry and Engineering, 2021, 9, 6446-6458.	3.2	23
80	Modeling of Silver Nanoparticle Formation in a Microreactor: Reaction Kinetics Coupled with Population Balance Model and Fluid Dynamics. Industrial & Engineering Chemistry Research, 2014, 53, 4263-4270.	1.8	21
81	Insights into formation kinetics of gold nanoparticles using the classical JMAK model. Chemical Physics, 2014, 441, 23-29.	0.9	21
82	Novel AuPd nanostructures for hydrogenation of 1,3-butadiene. Journal of Materials Chemistry A, 2015, 3, 4846-4854.	5.2	21
83	Plantâ€Mediated Synthesis of Zinc Oxide Supported Nickelâ€Palladium Alloy Catalyst for the Selective Hydrogenation of 1,3â€Butadiene. ChemCatChem, 2017, 9, 870-881.	1.8	21
84	Green Fabrication of Integrated Au/CuO/Oyster Shell Nanocatalysts with Oyster Shells as Alternative Supports for CO Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 17768-17777.	3.2	21
85	Facile synthesis of porous Pd nanoflowers with excellent catalytic activity towards CO oxidation. Chinese Journal of Chemical Engineering, 2015, 23, 1907-1915.	1.7	20
86	Highly efficient hydrogen generation from methanolysis of ammonia borane on CuPd alloy nanoparticles. Nanotechnology, 2015, 26, 025401.	1.3	20
87	High-Flux and Robust Co3O4 Mesh for Efficient Oil/Water Separation in Harsh Environment. ACS Omega, 2019, 4, 7385-7390.	1.6	20
88	Calcified Shrimp Waste Supported Pd NPs as an Efficient Catalyst toward Benzene Destruction. ACS Sustainable Chemistry and Engineering, 2020, 8, 486-497.	3.2	20
89	Stable Silver Nanoparticles with Narrow Size Distribution Non-enzymatically Synthesized by Aeromonas sp. SH10 Cells in the Presence of Hydroxyl Ions. Current Nanoscience, 2012, 8, 838-846.	0.7	19
90	Plant-Mediated Synthesis of Pd Catalysts toward Selective Hydrogenation of 1,3-Butadiene: The Effect of Halide Ions. Industrial & Engineering Chemistry Research, 2017, 56, 10623-10630.	1.8	19

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91	Facile fabrication of Pd nanoparticle/ Pichia pastoris catalysts through adsorptionâ€“reduction method: A study into effect of chemical pretreatment. Journal of Colloid and Interface Science, 2014, 433, 204-210.	5.0	18
92	Influence of Preparation Methods on the Catalytic Activity of Pdâ€“Cu/Mn₂O₃ Catalyst in the Hydrogenation of 1,3-Butadiene. ACS Omega, 2019, 4, 1300-1310.	1.6	17
93	Preparation of Integrated CuO/ZnO/OS Nanocatalysts by Using Acid-Etched Oyster Shells as a Support for CO₂ Hydrogenation. ACS Sustainable Chemistry and Engineering, 2020, 8, 7162-7173.	3.2	17
94	Oxygen-Enriched Biomass-Activated Carbon Supported Platinum Nanoparticles as an Efficient and Durable Catalyst for Oxidation in Benzene. ACS Sustainable Chemistry and Engineering, 2021, 9, 7255-7266.	3.2	17
95	Fabrication of Au/Pd alloy nanoparticle/Pichia pastoris composites: a microorganism-mediated approach. RSC Advances, 2013, 3, 15389.	1.7	16
96	High Catalytic Stability for CO Oxidation over Au/TiO₂ Catalysts by Cinnamomum camphora Leaf Extract. Industrial & Engineering Chemistry Research, 2018, 57, 14910-14914.	1.8	16
97	Towards efficient Pd/Mn3O4 catalyst with enhanced acidic sites and low temperature reducibility for Benzene abatement. Molecular Catalysis, 2019, 477, 110558.	1.0	16
98	Enhanced active site extraction from perovskite LaCoO3 using encapsulated PdO for efficient CO2 methanation. Journal of Energy Chemistry, 2021, 53, 9-19.	7.1	16
99	Microorganismâ€mediated, CTABâ€directed synthesis of hierarchically branched Auâ€nanowire/Escherichia coli nanocomposites with strong nearâ€infrared absorbance. Journal of Chemical Technology and Biotechnology, 2014, 89, 1410-1418.	1.6	15
100	Microorganism-assisted synthesis of Au/Pd/Ag nanowires. Materials Letters, 2016, 165, 29-32.	1.3	15
101	gâ€₃N₄â€SiCâ€Pt for Enhanced Photocatalytic H₂ Production from Water under Visible Light Irradiation. Energy Technology, 2019, 7, 1900017.	1.8	15
102	Aerobic oxidation of benzyl alcohol: Influence from catalysts basicity, acidity, and preparation methods. Molecular Catalysis, 2020, 485, 110789.	1.0	15
103	Insight into the Effect of Copper Substitution on the Catalytic Performance of LaCoO₃-Based Catalysts for Direct Epoxidation of Propylene with Molecular Oxygen. ACS Sustainable Chemistry and Engineering, 2021, 9, 794-808.	3.2	15
104	Fabrication of Au Nanowire/Pichia pastoris Cell Composites with Hexadecyltrimethylammonium Bromides as a Platform for SERS Detection: A Microorganism-Mediated Approach. Industrial & Engineering Chemistry Research, 2012, 51, 16651-16659.	1.8	14
105	Waste Pd/Fish-Collagen as anode for energy storage. Renewable and Sustainable Energy Reviews, 2020, 131, 109968.	8.2	14
106	Photoinduced Pt-Decorated Expanded Graphite toward Low-Temperature Benzene Catalytic Combustion. Industrial & Engineering Chemistry Research, 2020, 59, 11453-11461.	1.8	14
107	Ethanol-dependent solvothermal synthesis of monodispersed YAG powders with precursor obtained through bubbling ammonia. Ceramics International, 2014, 40, 16317-16321.	2.3	13
108	Synthesis of ZnO micro-flowers assisted by a plant-mediated strategy. Journal of Chemical Technology and Biotechnology, 2016, 91, 1493-1504.	1.6	13

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109	Biosynthesis of Agâ€“Pd bimetallic alloy nanoparticles through hydrolysis of cellulose triggered by silver sulfate. RSC Advances, 2018, 8, 30340-30345.	1.7	13
110	Bovine serum albumin templated porous CeO2 to support Au catalyst for benzene oxidation. Molecular Catalysis, 2020, 486, 110849.	1.0	13
111	Confined growth of MOF nanocrystals using a â€œlockedâ€•metal ion source. Journal of Materials Chemistry A, 2021, 9, 3976-3984.	5.2	13
112	Interfacial effects in CuO/Co₃O₄ heterostructures enhance benzene catalytic oxidation performance. Environmental Science: Nano, 2022, 9, 781-796.	2.2	13
113	Production of Silver Nanoparticles in a Continuous Stirred Tank Reactor Based on Plant-Mediated Biosynthesis: Flow Behaviors and Residence Time Distribution Prediction by Computational Fluid Dynamics Simulation. Industrial & Engineering Chemistry Research, 2013, 52, 2280-2289.	1.8	12
114	Preparation of Ag/Î±-Al2O3 for ethylene epoxidation through thermal decomposition assisted by extract of Cinnamomum camphora. RSC Advances, 2013, 3, 20732.	1.7	12
115	Rapid Au recovery from aqueous solution by a microorganism-mediated, surfactant-directed approach: Effect of surfactants and SERS of bio-Au. Chemical Engineering Journal, 2015, 267, 43-50.	6.6	12
116	Separation of different shape biosynthesized gold nanoparticles via agarose gel electrophoresis. Separation and Purification Technology, 2015, 151, 332-337.	3.9	12
117	Biomass-Modified Au/TS-1 as Highly Efficient and Stable Nanocatalysts for Propene Epoxidation with O2 and H2. Industrial & Engineering Chemistry Research, 2019, 58, 21953-21960.	1.8	12
118	Biophenol-Mediated Solvent-Free Synthesis of Titanium Silicalite-1 to Improve the Acidity Character of Framework Ti toward Catalysis Application. ACS Sustainable Chemistry and Engineering, 2020, 8, 12177-12186.	3.2	12
119	Effects of Biomolecules on the Selectivity of Biosynthesized Pd/MgO Catalyst toward Selective Oxidation of Benzyl Alcohol. Industrial & Engineering Chemistry Research, 2014, 53, 19128-19135.	1.8	11
120	Microorganismâ€•mediated, CTACâ€•directed synthesis of SERSâ€•sensitive Au nanohorns with threeâ€•dimensional nanostructures by Escherichia coli cells. Journal of Chemical Technology and Biotechnology, 2015, 90, 678-685.	1.6	11
121	Alternative method for preparation of Au/<scp>TiO₂</scp> with precise Au⁰/Au^{Î´+}. Journal of Chemical Technology and Biotechnology, 2016, 91, 2125-2130.	1.6	11
122	Biomimetic Au/CeO2 Catalysts Decorated with Hemin or Ferrous Phthalocyanine for Improved CO Oxidation via Local Synergistic Effects. IScience, 2020, 23, 101852.	1.9	11
123	Solvent-free photo-thermocatalytic oxidation of benzyl alcohol on Pd/TiO2 (B) nanowires. Molecular Catalysis, 2020, 483, 110771.	1.0	11
124	Optimization of Green Synthesis of Potassium Diformate and Its Potential as a Mold Inhibitor for Animal Feed. Industrial & Engineering Chemistry Research, 2010, 49, 5981-5985.	1.8	10
125	Continuous-flow biosynthesis of Auâ€“Ag bimetallic nanoparticles in a microreactor. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	10
126	Microwave-Assisted Biosynthesis of Ag/ZrO2 Catalyst with Excellent Activity toward Selective Oxidation of 1,2-Propanediol. Industrial & Engineering Chemistry Research, 2015, 54, 5373-5380.	1.8	10

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127	Facile morphology control of 3D porous CeO₂ for CO oxidation. RSC Advances, 2018, 8, 21658-21663.	1.7	10
128	Role of Mineral Nutrients in Plant-Mediated Synthesis of Three-Dimensional Porous LaCoO₃. Industrial & Engineering Chemistry Research, 2019, 58, 8555-8564.	1.8	10
129	Preparation of Ag/Î±-Al 2 O 3 for ethylene epoxidation by an impregnationâ€“bioreduction process with Cinnamomum camphora extract. Chemical Engineering Journal, 2016, 284, 149-157.	6.6	9
130	Seed-Induced Zeolitic TS-1 Immobilized with Bioinspired-Au Nanoparticles for Propylene Epoxidation with O2 and H2. Catalysis Letters, 2020, 150, 1798-1811.	1.4	9
131	Activation of molecular oxygen over Mn-doped La₂CuO₄ perovskite for direct epoxidation of propylene. Catalysis Science and Technology, 2022, 12, 2426-2437.	2.1	9
132	Transfer of Biosynthesized Gold Nanoparticles from Water into an Ionic Liquid Using Alkyltrimethyl Ammonium Bromide: An Anion-Exchange Process. Langmuir, 2011, 27, 166-169.	1.6	8
133	Template-free biosynthesis of flowerlike CuO microstructures using Cinnamomum camphora leaf extract at room temperature. Materials Letters, 2015, 161, 387-390.	1.3	7
134	Catalytic Application of Biogenic Platinum Nanoparticles for the Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2015, 45, 967-973.	0.6	6
135	Biosynthesized Pd/Î³-Al₂O₃ catalysts for low-temperature 1,3-butadiene hydrogenation: the effect of calcination atmosphere. New Journal of Chemistry, 2017, 41, 13036-13042.	1.4	6
136	Deep oxidation of benzene over LaCoO3 catalysts synthesized via a salt-assisted sol-gel process. Molecular Catalysis, 2020, 493, 111073.	1.0	6
137	Green synthesis of microspherical-confined nano-Pd/In2O3 integrated with H-ZSM-5 as bifunctional catalyst for CO2 hydrogenation into dimethyl ether: A carbonized alginate templating strategy. Separation and Purification Technology, 2022, 297, 121559.	3.9	6
138	Microorganism-mediated, CTAB-directed aggregation of Au nanostructures around Escherichia coli cells: Towards enhanced Au recovery through coordination of cell-CTABâ€“ascorbic acid. Separation and Purification Technology, 2014, 133, 380-387.	3.9	5
139	Biosynthesis of flat silver nanoflowers: from Flos Magnoliae Officinalis extract to simulation solution. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	5
140	A comprehensive study on the effect of preparation methods for Au-core@shell silica materials in room temperature oxidative amide formation. Journal of Materials Chemistry A, 2015, 3, 789-796.	5.2	5
141	Fabrication of multi-layered Co3O4/ZnO nanocatalysts for spectroscopic visualization: Effect of spatial positions on CO2 hydrogenation performance. Fuel, 2022, 321, 124042.	3.4	5
142	Microorganism-Templated Nanoarchitectonics of Hollow TiO2-SiO2 Microspheres with Enhanced Photocatalytic Activity for Degradation of Methyl Orange. Nanomaterials, 2022, 12, 1606.	1.9	5
143	Biosynthesis of silver nanoparticles through tandem hydrolysis of silver sulfate and cellulose under hydrothermal conditions. Journal of Chemical Technology and Biotechnology, 2014, 89, 1817-1824.	1.6	4
144	The Influence of Active Biomolecules in Plant Extracts on the Performance of Au/TSâ€1 Catalysts in Propylene Epoxidation. European Journal of Inorganic Chemistry, 2019, 2019, 2853-2859.	1.0	4

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145	One-Step Synthesis of Au-Ag Nanowires through Microorganism-Mediated, CTAB-Directed Approach. Nanomaterials, 2018, 8, 376.	1.9	3
146	Engineering TiO2 nanosheets with exposed (001) facets via the incorporation of Au clusters for boosted photocatalytic hydrogen production. Materials Advances, 2020, 1, 1608-1612.	2.6	3
147	Waste Eggshell with naturally-functionalized sulfonic groups as excellent support for loading Pd and Ag nanoparticles towards enhanced 1,3-butadiene hydrogenation. Molecular Catalysis, 2021, 510, 111689.	1.0	3
148	Preparation of supported In2O3/Pd nanocatalysts using natural pollen as bio-templates for CO2 hydrogenation to methanol: Effect of acid-etching on template. Molecular Catalysis, 2021, 516, 111945.	1.0	3
149	Synthesis, Characterization, and Sintering of Yttrium Aluminum Garnet Powder Through Double Hydrolysis Approach. Powder Metallurgy and Metal Ceramics, 2015, 54, 450-454.	0.4	2
150	Separation of biosynthesized gold nanoparticles by density gradient centrifugation. Separation Science and Technology, 2017, 52, 951-957.	1.3	2
151	HHT-based power quality analysis and energy efficiency management. , 2019, , .		2
152	Microorganism-Mediated Fabrication and Antibacterial Performance of Ag/α-Al₂O₃ Composites. Current Nanoscience, 2014, 10, 271-276.	0.7	2
153	Biogenic MnxOy as an efficient catalyst in the catalytic abatement of benzene: From kinetic to mathematical modeling. Molecular Catalysis, 2021, 510, 111643.	1.0	1