

# Jiale Huang

## List of Publications by Citations

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149  
papers

5,820  
citations

38  
h-index

72  
g-index

155  
ext. papers

6,636  
ext. citations

6.7  
avg, IF

5.69  
L-index

#	Paper	IF	Citations
149	Biosynthesis of silver and gold nanoparticles by novel sundried Cinnamomum camphora leaf. <i>Nanotechnology</i> , <b>2007</b> , 18, 105104	3.4	1123
148	Bio-inspired synthesis of metal nanomaterials and applications. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 6330-6345	5.85	317
147	Green synthesis of palladium nanoparticles using broth of Cinnamomum camphora leaf. <i>Journal of Nanoparticle Research</i> , <b>2010</b> , 12, 1589-1598	2.3	263
146	Green synthesis of AuPd bimetallic nanoparticles: Single-step bioreduction method with plant extract. <i>Materials Letters</i> , <b>2011</b> , 65, 2989-2991	3.3	164
145	Rapid Preparation Process of Silver Nanoparticles by Bioreduction and Their Characterizations. <i>Chinese Journal of Chemical Engineering</i> , <b>2006</b> , 14, 114-117	3.2	145
144	Biogenic Silver Nanoparticles by Cacumen Platycladi Extract: Synthesis, Formation Mechanism, and Antibacterial Activity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 9095-9106	3.9	141
143	Adsorption of anionic and cationic dyes on ferromagnetic ordered mesoporous carbon from aqueous solution: equilibrium, thermodynamic and kinetics. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 430, 272-82	9.3	136
142	Strong Near-Infrared Absorbing and Biocompatible CuS Nanoparticles for Rapid and Efficient Photothermal Ablation of Gram-Positive and -Negative Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 36606-36614	9.5	126
141	Nature factory of silver nanowires: Plant-mediated synthesis using broth of Cassia fistula leaf. <i>Chemical Engineering Journal</i> , <b>2010</b> , 162, 852-858	14.7	112
140	Ionic liquid-enhanced immobilization of biosynthesized Au nanoparticles on TS-1 toward efficient catalysts for propylene epoxidation. <i>Journal of Catalysis</i> , <b>2011</b> , 283, 192-201	7.3	106
139	Continuous-Flow Biosynthesis of Silver Nanoparticles by Lixivium of Sundried Cinnamomum camphora Leaf in Tubular Microreactors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 6081-6090	3.9	94
138	Plant-mediated synthesis of platinum nanoparticles and its bioreductive mechanism. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 396, 138-45	9.3	92
137	Liquid phase oxidation of benzyl alcohol to benzaldehyde with novel uncalcined bioreduction Au catalysts: High activity and durability. <i>Chemical Engineering Journal</i> , <b>2012</b> , 187, 232-238	14.7	91
136	Biosynthesis of gold nanoparticles by foliar broths: roles of biocompounds and other attributes of the extracts. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 1351-9	5	87
135	Biosynthesized Bimetallic AuPd Nanoparticles Supported on TiO <sub>2</sub> for Solvent-Free Oxidation of Benzyl Alcohol. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 1752-1759	8.3	85
134	Green synthesis of AuAg alloy nanoparticles using Cacumen platycladi extract. <i>RSC Advances</i> , <b>2013</b> , 3, 1878-1884	3.7	85
133	Synthesis of gold nanoparticles by Cacumen Platycladi leaf extract and its simulated solution: toward the plant-mediated biosynthetic mechanism. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 4957-4968	2.3	72

132	Bimetallic AuPd/MgO as efficient catalysts for aerobic oxidation of benzyl alcohol: A green bio-reducing preparation method. <i>Applied Catalysis A: General</i> , <b>2012</b> , 439-440, 179-186	5.1	68
131	Preparation of a graphitic ordered mesoporous carbon and its application in sorption of ciprofloxacin: Kinetics, isotherm, adsorption mechanisms studies. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 228, 196-206	5.3	68
130	Biogenic flower-shaped AuPd nanoparticles: synthesis, SERS detection and catalysis towards benzyl alcohol oxidation. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1767-1773	13	67
129	Plant-mediated synthesis of highly active iron nanoparticles for Cr (VI) removal: Investigation of the leading biomolecules. <i>Chemosphere</i> , <b>2016</b> , 150, 357-364	8.4	66
128	Influence of Au Particle Size on Au/TiO <sub>2</sub> Catalysts for CO Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 19150-19157	3.8	61
127	Plant-Mediated Synthesis of AgPd Alloy Nanoparticles and Their Application as Catalyst toward Selective Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 1212-1218	8.3	60
126	Enhanced catalytic benzene oxidation over a novel waste-derived Ag/eggshell catalyst. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8832-8844	13	59
125	Optimization of polyhydroxybutyrate (PHB) production by excess activated sludge and microbial community analysis. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 185, 8-16	12.8	55
124	Catalytic benzene oxidation by biogenic Pd nanoparticles over 3D-ordered mesoporous CeO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2019</b> , 362, 41-52	14.7	55
123	Biosynthesized gold nanoparticles supported over TS-1 toward efficient catalyst for epoxidation of styrene. <i>Chemical Engineering Journal</i> , <b>2014</b> , 235, 215-223	14.7	51
122	PdO/LaCoO <sub>3</sub> heterojunction photocatalysts for highly hydrogen production from formaldehyde aqueous solution under visible light. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 6115-6122	6.7	49
121	Supramolecular hydrogels for creating gold and silver nanoparticles in situ. <i>Soft Matter</i> , <b>2013</b> , 9, 2017	3.6	46
120	Anatase type extra-framework titanium in TS-1: A vital factor influencing the catalytic activity toward styrene epoxidation. <i>Applied Catalysis A: General</i> , <b>2013</b> , 459, 1-7	5.1	44
119	Vapor-Phase Propylene Epoxidation with H <sub>2</sub> /O <sub>2</sub> over Bioreduction Au/TS-1 Catalysts: Synthesis, Characterization, and Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 9019-9028	2.9	44
118	Catalytic gold nanoparticles immobilized on yeast: From biosorption to bioreduction. <i>Chemical Engineering Journal</i> , <b>2013</b> , 225, 857-864	14.7	42
117	Monodisperse AgPd alloy nanoparticles as a highly active catalyst towards the methanolysis of ammonia borane for hydrogen generation. <i>RSC Advances</i> , <b>2016</b> , 6, 105940-105947	3.7	42
116	Plant-mediated synthesis of size-controllable Ni nanoparticles with alfalfa extract. <i>Materials Letters</i> , <b>2014</b> , 122, 166-169	3.3	41
115	Green synthesis of Au/TS-1 catalysts via two novel modes and their surprising performance for propylene epoxidation. <i>Catalysis Communications</i> , <b>2011</b> , 12, 830-833	3.2	40

114	Ultra-efficient removal of chromium from aqueous medium by biogenic iron based nanoparticles. <i>Separation and Purification Technology</i> , <b>2017</b> , 174, 466-473	8.3	39
113	Two-step size- and shape-separation of biosynthesized gold nanoparticles. <i>Separation and Purification Technology</i> , <b>2013</b> , 106, 117-122	8.3	39
112	Kinetics of liquid phase oxidation of benzyl alcohol with hydrogen peroxide over bio-reduced Au/TS-1 catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2013</b> , 366, 215-221		38
111	A general strategy for the biosynthesis of gold nanoparticles by traditional Chinese medicines and their potential application as catalysts. <i>Chemistry - an Asian Journal</i> , <b>2009</b> , 4, 1050-4	4.5	38
110	Efficient Ag/CeO <sub>2</sub> catalysts for CO oxidation prepared with microwave-assisted biosynthesis. <i>Chemical Engineering Journal</i> , <b>2015</b> , 269, 105-112	14.7	37
109	Pd Supported on MIL-68(In)-Derived In <sub>2</sub> O <sub>3</sub> Nanotubes as Superior Catalysts to Boost CO <sub>2</sub> Hydrogenation to Methanol. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13275-13289	13.1	36
108	Synthesis of Gold Nanoplates with Bioreducing Agent Using Syringe Pumps: A Kinetic Control. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 15753-15762	3.9	35
107	Heterogeneous Pd catalyst for mild solvent-free oxidation of benzyl alcohol. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 425, 61-67		34
106	Fabrication of Pd/Al <sub>2</sub> O <sub>3</sub> catalysts for hydrogenation of 2-ethyl-9,10-anthraquinone assisted by plant-mediated strategy. <i>Chemical Engineering Journal</i> , <b>2015</b> , 262, 356-363	14.7	33
105	MO-ZrO (M = Zn, Co, Cu) Solid Solutions Derived from Schiff Base-Bridged UiO-66 Composites as High-Performance Catalysts for CO Hydrogenation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33263-33272	9.5	33
104	Investigation of active biomolecules involved in the nucleation and growth of gold nanoparticles by <i>Artocarpus heterophyllus</i> Lam leaf extract. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	32
103	Green Photocatalytic Oxidation of Benzyl Alcohol over Noble-Metal-Modified H <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Nanowires. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9717-9726	8.3	31
102	Microfluidic biosynthesis of silver nanoparticles: Effect of process parameters on size distribution. <i>Chemical Engineering Journal</i> , <b>2012</b> , 209, 568-576	14.7	31
101	Microorganism-mediated synthesis of chemically difficult-to-synthesize Au nanohorns with excellent optical properties in the presence of hexadecyltrimethylammonium chloride. <i>Nanoscale</i> , <b>2013</b> , 5, 6599-606	7.7	30
100	Trisodium Citrate-Assisted Biosynthesis of Silver Nanoflowers by <i>Canarium album</i> Foliar Broths as a Platform for SERS Detection. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 5085-5094	3.9	29
99	Rape Pollen-Templated Synthesis of C,N Self-Doped Hierarchical TiO <sub>2</sub> for Selective Hydrogenation of 1,3-Butadiene. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 882-888	8.3	29
98	Biogenic Pt/CaCO Nanocomposite as a Robust Catalyst toward Benzene Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2469-2480	9.5	27
97	Ni <sub>2</sub> P-Graphite Nanoplatelets Supported AuPd Core-Shell Nanoparticles with Superior Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10469-10477	3.8	26

96	Hydrothermal synthesis of 3D hollow porous Fe <sub>3</sub> O <sub>4</sub> microspheres towards catalytic removal of organic pollutants. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 648	5	26
95	Alkaline extraction and acid precipitation of phenolic compounds from longan ( <i>Dimocarpus longan</i> L.) seeds. <i>Separation and Purification Technology</i> , <b>2014</b> , 124, 201-206	8.3	25
94	Quantitative nucleation and growth kinetics of gold nanoparticles via model-assisted dynamic spectroscopic approach. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 407, 8-16	9.3	25
93	Propylene epoxidation over biogenic Au/TS-1 catalysts by <i>Cinnamomum camphora</i> extract in the presence of H <sub>2</sub> and O <sub>2</sub> . <i>Applied Surface Science</i> , <b>2016</b> , 366, 292-298	6.7	24
92	Co-precipitation synthesis and two-step sintering of YAG powders for transparent ceramics. <i>Ceramics International</i> , <b>2013</b> , 39, 7983-7988	5.1	24
91	Plant-Mediated Fabrication and Surface Enhanced Raman Property of Flower-Like Au@Pd Nanoparticles. <i>Materials</i> , <b>2014</b> , 7, 1360-1369	3.5	24
90	Bioelectricity generation from the decolorization of reactive blue 19 by using microbial fuel cell. <i>Journal of Environmental Management</i> , <b>2019</b> , 248, 109310	7.9	22
89	Biosynthesized Ag/Al <sub>2</sub> O <sub>3</sub> catalyst for ethylene epoxidation: the influence of silver precursors. <i>RSC Advances</i> , <b>2014</b> , 4, 27597-27603	3.7	22
88	Cu <sub>2</sub> -xS loaded diatom nanocomposites as novel photocatalysts for efficient photocatalytic degradation of organic pollutants. <i>Catalysis Today</i> , <b>2019</b> , 335, 228-235	5.3	22
87	Coral-like CoMnOx as a Highly Active Catalyst for Benzene Catalytic Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 2882-2890	3.9	21
86	Diatomite Supported Pt Nanoparticles as Efficient Catalyst for Benzene Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 14008-14015	3.9	21
85	Template-free synthesis of carbon self-doped ZnO superstructures as efficient support for ultra fine Pd nanoparticles and their catalytic activity towards benzene oxidation. <i>Molecular Catalysis</i> , <b>2019</b> , 469, 118-130	3.3	20
84	Facile synthesis of porous Pd nanoflowers with excellent catalytic activity towards CO oxidation. <i>Chinese Journal of Chemical Engineering</i> , <b>2015</b> , 23, 1907-1915	3.2	20
83	Roles of Biomolecules in the Biosynthesis of Silver Nanoparticles: Case of <i>Gardenia jasminoides</i> Extract. <i>Chinese Journal of Chemical Engineering</i> , <b>2014</b> , 22, 706-712	3.2	20
82	Plant-Mediated Synthesis of Zinc Oxide Supported Nickel-Palladium Alloy Catalyst for the Selective Hydrogenation of 1,3-Butadiene. <i>ChemCatChem</i> , <b>2017</b> , 9, 870-881	5.2	19
81	Activity and stability of titanosilicate supported Au catalyst for propylene epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>Molecular Catalysis</i> , <b>2018</b> , 448, 144-152	3.3	19
80	Insights into formation kinetics of gold nanoparticles using the classical JMAK model. <i>Chemical Physics</i> , <b>2014</b> , 441, 23-29	2.3	19
79	Ascorbic acid assisted bio-synthesis of Pd-Pt nanoflowers with enhanced electrochemical properties.. <i>Electrochimica Acta</i> , <b>2017</b> , 228, 474-482	6.7	18

78	Novel AuPd nanostructures for hydrogenation of 1,3-butadiene. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4846-4854	13	18
77	Modeling of Silver Nanoparticle Formation in a Microreactor: Reaction Kinetics Coupled with Population Balance Model and Fluid Dynamics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 4263-4270	3.9	18
76	Facile fabrication of Pd nanoparticle/ <i>Pichia pastoris</i> catalysts through adsorption-reduction method: a study into effect of chemical pretreatment. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 433, 204-210	9.3	17
75	Plant-Mediated Synthesis of Pd Catalysts toward Selective Hydrogenation of 1,3-Butadiene: The Effect of Halide Ions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 10623-10630	3.9	16
74	Waste eggshells to valuable Co <sub>3</sub> O <sub>4</sub> /CaCO <sub>3</sub> materials as efficient catalysts for VOCs oxidation. <i>Molecular Catalysis</i> , <b>2020</b> , 483, 110766	3.3	16
73	Highly efficient hydrogen generation from methanolysis of ammonia borane on CuPd alloy nanoparticles. <i>Nanotechnology</i> , <b>2015</b> , 26, 025401	3.4	15
72	Microorganism-assisted synthesis of Au/Pd/Ag nanowires. <i>Materials Letters</i> , <b>2016</b> , 165, 29-32	3.3	15
71	Fabrication of Au/Pd alloy nanoparticle/ <i>Pichia pastoris</i> composites: a microorganism-mediated approach. <i>RSC Advances</i> , <b>2013</b> , 3, 15389	3.7	15
70	Durable super-hydrophobic PDMS@SiO <sub>2</sub> @WS sponge for efficient oil/water separation in complex marine environment. <i>Environmental Pollution</i> , <b>2021</b> , 269, 116118	9.3	15
69	Microorganism-mediated, CTAB-directed synthesis of hierarchically branched Au-nanowire/ <i>Escherichia coli</i> nanocomposites with strong near-infrared absorbance. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 1410-1418	3.5	14
68	Stable Silver Nanoparticles with Narrow Size Distribution Non-enzymatically Synthesized by <i>Aeromonas sp.</i> SH10 Cells in the Presence of Hydroxyl Ions. <i>Current Nanoscience</i> , <b>2012</b> , 8, 838-846	1.4	14
67	Green synthesized iron nanoparticles as highly efficient fenton-like catalyst for degradation of dyes. <i>Chemosphere</i> , <b>2020</b> , 261, 127618	8.4	14
66	Influence of Preparation Methods on the Catalytic Activity of Pd/Cu/Mn <sub>2</sub> O <sub>3</sub> Catalyst in the Hydrogenation of 1,3-Butadiene. <i>ACS Omega</i> , <b>2019</b> , 4, 1300-1310	3.9	13
65	High-Flux and Robust CoO Mesh for Efficient Oil/Water Separation in Harsh Environment. <i>ACS Omega</i> , <b>2019</b> , 4, 7385-7390	3.9	13
64	Titanium silicalite-1 zeolite encapsulating Au particles as a catalyst for vapor phase propylene epoxidation with H <sub>2</sub> /O <sub>2</sub> : a matter of Au/Ti synergic interaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4428-4436	13	13
63	Fabrication of Au Nanowire/ <i>Pichia pastoris</i> Cell Composites with Hexadecyltrimethylammonium Bromides as a Platform for SERS Detection: A Microorganism-Mediated Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 16651-16659	3.9	13
62	Calcified Shrimp Waste Supported Pd NPs as an Efficient Catalyst toward Benzene Destruction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 486-497	8.3	13
61	The development of bifunctional catalysts for carbon dioxide hydrogenation to hydrocarbons via the methanol route: from single component to integrated components. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5197-5231	13	13

60	Preparation and characterization of ethyl cellulose film modified with capsaicin. <i>Carbohydrate Polymers</i> , <b>2020</b> , 241, 116259	10.3	12
59	Preparation of Ag/PAl <sub>2</sub> O <sub>3</sub> for ethylene epoxidation through thermal decomposition assisted by extract of Cinnamomum camphora. <i>RSC Advances</i> , <b>2013</b> , 3, 20732	3.7	12
58	Synthesis of ZnO micro-flowers assisted by a plant-mediated strategy. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2016</b> , 91, 1493-1504	3.5	12
57	Aerobic oxidation of benzyl alcohol: Influence from catalysts basicity, acidity, and preparation methods. <i>Molecular Catalysis</i> , <b>2020</b> , 485, 110789	3.3	11
56	Microorganism-mediated, CTAC-directed synthesis of SERS-sensitive Au nanohorns with three-dimensional nanostructures by Escherichia coli cells. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 678-685	3.5	11
55	Effects of Biomolecules on the Selectivity of Biosynthesized Pd/MgO Catalyst toward Selective Oxidation of Benzyl Alcohol. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 19128-19135	3.9	11
54	Hydrogenation of CO <sub>2</sub> to Dimethyl Ether over Tandem Catalysts Based on Biotemplated Hierarchical ZSM-5 and Pd/ZnO. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 14058-14070	8.3	11
53	State of arts on the bio-synthesis of noble metal nanoparticles and their biological application. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 30, 272-290	3.2	11
52	High Catalytic Stability for CO Oxidation over Au/TiO <sub>2</sub> Catalysts by Cinnamomum camphora Leaf Extract. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 14910-14914	3.9	11
51	Biosynthesis of Ag-Pd bimetallic alloy nanoparticles through hydrolysis of cellulose triggered by silver sulfate.. <i>RSC Advances</i> , <b>2018</b> , 8, 30340-30345	3.7	11
50	Bovine serum albumin templated porous CeO <sub>2</sub> to support Au catalyst for benzene oxidation. <i>Molecular Catalysis</i> , <b>2020</b> , 486, 110849	3.3	10
49	Ethanol-dependent solvothermal synthesis of monodispersed YAG powders with precursor obtained through bubbling ammonia. <i>Ceramics International</i> , <b>2014</b> , 40, 16317-16321	5.1	10
48	Rapid Au recovery from aqueous solution by a microorganism-mediated, surfactant-directed approach: Effect of surfactants and SERS of bio-Au. <i>Chemical Engineering Journal</i> , <b>2015</b> , 267, 43-50	14.7	10
47	Continuous-flow biosynthesis of Au/Ag bimetallic nanoparticles in a microreactor. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	10
46	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. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 2280-2289	3.9	10
45	Alternative method for preparation of Au/TiO <sub>2</sub> with precise Au <sup>0</sup> /Au <sup>III</sup> . <i>Journal of Chemical Technology and Biotechnology</i> , <b>2016</b> , 91, 2125-2130	3.5	10
44	Preparation of Integrated CuO/ZnO/OS Nanocatalysts by Using Acid-Etched Oyster Shells as a Support for CO <sub>2</sub> Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7162-7173	8.3	10
43	Green Fabrication of Integrated Au/CuO/Oyster Shell Nanocatalysts with Oyster Shells as Alternative Supports for CO Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 17768-17777	8.3	9

42	Microwave-Assisted Biosynthesis of Ag/ZrO <sub>2</sub> Catalyst with Excellent Activity toward Selective Oxidation of 1,2-Propanediol. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 5373-5380	3.9	9
41	Solvent-free photo-thermocatalytic oxidation of benzyl alcohol on Pd/TiO <sub>2</sub> (B) nanowires. <i>Molecular Catalysis</i> , <b>2020</b> , 483, 110771	3.3	9
40	Preparation of Ag/Al <sub>2</sub> O <sub>3</sub> for ethylene epoxidation by an impregnation/Bioreduction process with Cinnamomum camphora extract. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 149-157	14.7	8
39	Role of Mineral Nutrients in Plant-Mediated Synthesis of Three-Dimensional Porous LaCoO <sub>3</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> ,	3.9	8
38	g-C <sub>3</sub> N <sub>4</sub> -SiC-Pt for Enhanced Photocatalytic H <sub>2</sub> Production from Water under Visible Light Irradiation. <i>Energy Technology</i> , <b>2019</b> , 7, 1900017	3.5	8
37	Towards efficient Pd/Mn <sub>3</sub> O <sub>4</sub> catalyst with enhanced acidic sites and low temperature reducibility for Benzene abatement. <i>Molecular Catalysis</i> , <b>2019</b> , 477, 110558	3.3	8
36	Transfer of biosynthesized gold nanoparticles from water into an ionic liquid using alkyltrimethyl ammonium bromide: an anion-exchange process. <i>Langmuir</i> , <b>2011</b> , 27, 166-9	4	8
35	Separation of different shape biosynthesized gold nanoparticles via agarose gel electrophoresis. <i>Separation and Purification Technology</i> , <b>2015</b> , 151, 332-337	8.3	7
34	Facile morphology control of 3D porous CeO for CO oxidation.. <i>RSC Advances</i> , <b>2018</b> , 8, 21658-21663	3.7	7
33	Catalytic Application of Biogenic Platinum Nanoparticles for the Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2015</b> , 45, 967-973		6
32	Template-free biosynthesis of flowerlike CuO microstructures using Cinnamomum camphora leaf extract at room temperature. <i>Materials Letters</i> , <b>2015</b> , 161, 387-390	3.3	6
31	Waste Pd/Fish-Collagen as anode for energy storage. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 131, 109968	16.2	6
30	Enhanced active site extraction from perovskite LaCoO <sub>3</sub> using encapsulated PdO for efficient CO <sub>2</sub> methanation. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 53, 9-19	12	6
29	Photoinduced Pt-Decorated Expanded Graphite toward Low-Temperature Benzene Catalytic Combustion. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 11453-11461	3.9	5
28	Biomass-Modified Au/TS-1 as Highly Efficient and Stable Nanocatalysts for Propene Epoxidation with O <sub>2</sub> and H <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 21953-21960	3.9	5
27	Optimization of Green Synthesis of Potassium Diformate and Its Potential as a Mold Inhibitor for Animal Feed. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 5981-5985	3.9	5
26	Seed-Induced Zeolitic TS-1 Immobilized with Bioinspired-Au Nanoparticles for Propylene Epoxidation with O <sub>2</sub> and H <sub>2</sub> . <i>Catalysis Letters</i> , <b>2020</b> , 150, 1798-1811	2.8	5
25	Biosynthesized Pd/Al <sub>2</sub> O <sub>3</sub> catalysts for low-temperature 1,3-butadiene hydrogenation: the effect of calcination atmosphere. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 13036-13042	3.6	4

24	A comprehensive study on the effect of preparation methods for Au-core@shell silica materials in room temperature oxidative amide formation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 789-796	13	4
23	Biomimetic Au/CeO Catalysts Decorated with Hemin or Ferrous Phthalocyanine for Improved CO Oxidation Local Synergistic Effects. <i>IScience</i> , <b>2020</b> , 23, 101852	6.1	4
22	Biosynthesis of flat silver nanoflowers: from Flos Magnoliae Officinalis extract to simulation solution. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	4
21	Biophenol-Mediated Solvent-Free Synthesis of Titanium Silicalite-1 to Improve the Acidity Character of Framework Ti toward Catalysis Application. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 12177-12186	8.3	4
20	Design and Synthesis of Bioinspired ZnZrOx&Bio-ZSM-5 Integrated Nanocatalysts to Boost CO <sub>2</sub> Hydrogenation to Light Olefins. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 6446-6458	8.3	4
19	Confined growth of MOF nanocrystals using a blocked metal ion source. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 3976-3984	13	4
18	The Influence of Active Biomolecules in Plant Extracts on the Performance of Au/TS-1 Catalysts in Propylene Epoxidation. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 2853-2859	2.3	3
17	Biosynthesis of silver nanoparticles through tandem hydrolysis of silver sulfate and cellulose under hydrothermal conditions. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 1817-1824	3.5	3
16	Microorganism-mediated, CTAB-directed aggregation of Au nanostructures around Escherichia coli cells: Towards enhanced Au recovery through coordination of cell-CTAB&ascorbic acid. <i>Separation and Purification Technology</i> , <b>2014</b> , 133, 380-387	8.3	3
15	Fabrication of Pd/In <sub>2</sub> O <sub>3</sub> Nanocatalysts Derived from MIL-68(In) Loaded with Molecular Metalloporphyrin (TCPP(Pd)) Toward CO <sub>2</sub> Hydrogenation to Methanol. <i>ACS Catalysis</i> , <b>2022</b> , 12, 709-723	13.1	3
14	Separation of biosynthesized gold nanoparticles by density gradient centrifugation. <i>Separation Science and Technology</i> , <b>2017</b> , 52, 951-957	2.5	2
13	Deep oxidation of benzene over LaCoO <sub>3</sub> catalysts synthesized via a salt-assisted sol-gel process. <i>Molecular Catalysis</i> , <b>2020</b> , 493, 111073	3.3	2
12	One-Step Synthesis of Au-Ag Nanowires through Microorganism-Mediated, CTAB-Directed Approach. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	2
11	Microorganism-Mediated Fabrication and Antibacterial Performance of Ag&Al <sub>2</sub> O <sub>3</sub> Composites. <i>Current Nanoscience</i> , <b>2014</b> , 10, 271-276	1.4	2
10	Oxygen-Enriched Biomass-Activated Carbon Supported Platinum Nanoparticles as an Efficient and Durable Catalyst for Oxidation in Benzene. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 7255-7266	8.3	2
9	Waste Eggshell with naturally-functionalized sulfonic groups as excellent support for loading Pd and Ag nanoparticles towards enhanced 1,3-butadiene hydrogenation. <i>Molecular Catalysis</i> , <b>2021</b> , 510, 111689	3.3	2
8	Direct CO <sub>2</sub> Hydrogenation to Light Olefins over ZnZrOx Mixed with Hierarchically Hollow SAPO-34 with Rice Husk as Green Silicon Source and Template. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121572	21.8	2
7	Synthesis, Characterization, and Sintering of Yttrium Aluminum Garnet Powder Through Double Hydrolysis Approach. <i>Powder Metallurgy and Metal Ceramics</i> , <b>2015</b> , 54, 450-454	0.8	1

6	Preparation of supported In <sub>2</sub> O <sub>3</sub> /Pd nanocatalysts using natural pollen as bio-templates for CO <sub>2</sub> hydrogenation to methanol: Effect of acid-etching on template. <i>Molecular Catalysis</i> , <b>2021</b> , 516, 111945	3.3	1
5	Biogenic Mn <sub>x</sub> O <sub>y</sub> as an efficient catalyst in the catalytic abatement of benzene: From kinetic to mathematical modeling. <i>Molecular Catalysis</i> , <b>2021</b> , 510, 111643	3.3	1
4	HHT-based power quality analysis and energy efficiency management <b>2019</b> ,		1
3	Insight into the Effect of Copper Substitution on the Catalytic Performance of LaCoO <sub>3</sub> -Based Catalysts for Direct Epoxidation of Propylene with Molecular Oxygen. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 794-808	8.3	1
2	Fabrication of multi-layered Co <sub>3</sub> O <sub>4</sub> /ZnO nanocatalysts for spectroscopic visualization: Effect of spatial positions on CO <sub>2</sub> hydrogenation performance. <i>Fuel</i> , <b>2022</b> , 321, 124042	7.1	1
1	Engineering TiO <sub>2</sub> nanosheets with exposed (001) facets via the incorporation of Au clusters for boosted photocatalytic hydrogen production. <i>Materials Advances</i> , <b>2020</b> , 1, 1608-1612	3.3	0