

Daohua Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

5,123
citations

33
h-index

70
g-index

109
ext. papers

5,680
ext. citations

7
avg, IF

5.4
L-index

#	Paper	IF	Citations
105	Tuning the electronic property of Pd nanoparticles by encapsulation within ZIF-67 shells towards enhanced performance in 1,3-butadiene hydrogenation. <i>Catalysis Science and Technology</i> , 2022 , 12, 2519-2530	5.5	0
104	Hollow ZSM-5 zeolite encapsulating Pt nanoparticles: Cage-confinement effects for the enhanced catalytic oxidation of benzene.. <i>Chemosphere</i> , 2021 , 292, 133446	8.4	0
103	State of arts on the bio-synthesis of noble metal nanoparticles and their biological application. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 30, 272-290	3.2	11
102	Durable super-hydrophobic PDMS@SiO@WS sponge for efficient oil/water separation in complex marine environment. <i>Environmental Pollution</i> , 2021 , 269, 116118	9.3	15
101	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> , 2021 , 9, 5197-5231	13	13
100	Pt Nanoparticles Embedded in KOH-Activated Soybean Straw as an Efficient Catalyst toward Benzene Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3561-3571	3.9	0
99	Photoinduced Pt-Decorated Expanded Graphite toward Low-Temperature Benzene Catalytic Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11453-11461	3.9	5
98	Titanium silicalite-1 zeolite encapsulating Au particles as a catalyst for vapor phase propylene epoxidation with H ₂ /O ₂ : a matter of Au/Ti synergic interaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4428-4436	13	13
97	Solvent-free photo-thermocatalytic oxidation of benzyl alcohol on Pd/TiO ₂ (B) nanowires. <i>Molecular Catalysis</i> , 2020 , 483, 110771	3.3	9
96	Seed-Induced Zeolitic TS-1 Immobilized with Bioinspired-Au Nanoparticles for Propylene Epoxidation with O ₂ and H ₂ . <i>Catalysis Letters</i> , 2020 , 150, 1798-1811	2.8	5
95	Green synthesized iron nanoparticles as highly efficient fenton-like catalyst for degradation of dyes. <i>Chemosphere</i> , 2020 , 261, 127618	8.4	14
94	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> , 2020 , 8, 12177-12186	8.3	4
93	Preparation of Integrated CuO/ZnO/OS Nanocatalysts by Using Acid-Etched Oyster Shells as a Support for CO ₂ Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7162-7173	8.3	10
92	Coral-like CoMnOx as a Highly Active Catalyst for Benzene Catalytic Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2882-2890	3.9	21
91	High-Flux and Robust CoO Mesh for Efficient Oil/Water Separation in Harsh Environment. <i>ACS Omega</i> , 2019 , 4, 7385-7390	3.9	13
90	Green Photocatalytic Oxidation of Benzyl Alcohol over Noble-Metal-Modified H ₂ Ti ₃ O ₇ Nanowires. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9717-9726	8.3	31
89	Role of Mineral Nutrients in Plant-Mediated Synthesis of Three-Dimensional Porous LaCoO ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2019 ,	3.9	8

88	g-C ₃ N ₄ -SiC-Pt for Enhanced Photocatalytic H ₂ Production from Water under Visible Light Irradiation. <i>Energy Technology</i> , 2019 , 7, 1900017	3.5	8
87	Plant-mediated synthesis of AgPd/Al ₂ O ₃ catalysts for selective hydrogenation of 1,3-butadiene at low temperature. <i>New Journal of Chemistry</i> , 2019 , 43, 13891-13898	3.6	9
86	Diatomite Supported Pt Nanoparticles as Efficient Catalyst for Benzene Removal. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14008-14015	3.9	21
85	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> , 2019 , 2019, 2853-2859	2.3	3
84	Catalytic benzene oxidation by biogenic Pd nanoparticles over 3D-ordered mesoporous CeO ₂ . <i>Chemical Engineering Journal</i> , 2019 , 362, 41-52	14.7	55
83	Activity and stability of titanosilicate supported Au catalyst for propylene epoxidation with H ₂ and O ₂ . <i>Molecular Catalysis</i> , 2018 , 448, 144-152	3.3	19
82	Facile morphology control of 3D porous CeO for CO oxidation.. <i>RSC Advances</i> , 2018 , 8, 21658-21663	3.7	7
81	Rape Pollen-Templated Synthesis of C,N Self-Doped Hierarchical TiO ₂ for Selective Hydrogenation of 1,3-Butadiene. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 882-888	8.3	29
80	High Catalytic Stability for CO Oxidation over Au/TiO ₂ Catalysts by Cinnamomum camphora Leaf Extract. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14910-14914	3.9	11
79	Ascorbic acid assisted bio-synthesis of Pd-Pt nanoflowers with enhanced electrochemical properties.. <i>Electrochimica Acta</i> , 2017 , 228, 474-482	6.7	18
78	Separation of biosynthesized gold nanoparticles by density gradient centrifugation. <i>Separation Science and Technology</i> , 2017 , 52, 951-957	2.5	2
77	Plant-Mediated Synthesis of Au Nanoparticles: Separation and Identification of Active Biomolecule in the Water Extract of Cacumen Platycladi. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 5262-5270	3.9	28
76	Plant-Mediated Synthesis of Zinc Oxide Supported Nickel-Palladium Alloy Catalyst for the Selective Hydrogenation of 1,3-Butadiene. <i>ChemCatChem</i> , 2017 , 9, 870-881	5.2	19
75	Biosynthesized Gold/Activated Carbon Catalyst for Aerobic Glucose Oxidation: Influence of Acid Treatment on Activated Carbon. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 681-686	4.9	2
74	Biosynthesized Pd/Al ₂ O ₃ catalysts for low-temperature 1,3-butadiene hydrogenation: the effect of calcination atmosphere. <i>New Journal of Chemistry</i> , 2017 , 41, 13036-13042	3.6	4
73	Plant-Mediated Synthesis of Pd Catalysts toward Selective Hydrogenation of 1,3-Butadiene: The Effect of Halide Ions. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10623-10630	3.9	16
72	Ultra-efficient removal of chromium from aqueous medium by biogenic iron based nanoparticles. <i>Separation and Purification Technology</i> , 2017 , 174, 466-473	8.3	39
71	Preparation of Ag/Al ₂ O ₃ for ethylene epoxidation by an impregnation/Bioreduction process with Cinnamomum camphora extract. <i>Chemical Engineering Journal</i> , 2016 , 284, 149-157	14.7	8

70	Propylene epoxidation over biogenic Au/TS-1 catalysts by Cinnamomum camphora extract in the presence of H ₂ and O ₂ . <i>Applied Surface Science</i> , 2016 , 366, 292-298	6.7	24
69	Alternative method for preparation of Au/TiO ₂ with precise Au ⁰ /Au ^{III} . <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 2125-2130	3.5	10
68	Synthesis of ZnO micro-flowers assisted by a plant-mediated strategy. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1493-1504	3.5	12
67	Monodisperse AgPd alloy nanoparticles as a highly active catalyst towards the methanolysis of ammonia borane for hydrogen generation. <i>RSC Advances</i> , 2016 , 6, 105940-105947	3.7	42
66	Plant-mediated synthesis of highly active iron nanoparticles for Cr (VI) removal: Investigation of the leading biomolecules. <i>Chemosphere</i> , 2016 , 150, 357-364	8.4	66
65	Novel AuPd nanostructures for hydrogenation of 1,3-butadiene. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4846-4854	13	18
64	Bio-inspired synthesis of metal nanomaterials and applications. <i>Chemical Society Reviews</i> , 2015 , 44, 6330-6345	31.5	317
63	Separation of different shape biosynthesized gold nanoparticles via agarose gel electrophoresis. <i>Separation and Purification Technology</i> , 2015 , 151, 332-337	8.3	7
62	Microwave-Assisted Biosynthesis of Ag/ZrO ₂ Catalyst with Excellent Activity toward Selective Oxidation of 1,2-Propanediol. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5373-5380	3.9	9
61	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> , 2015 , 45, 967-973		6
60	Ni ₂ P-Graphite Nanoplatelets Supported AuPd Core-Shell Nanoparticles with Superior Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10469-10477	3.8	26
59	Facile synthesis of porous Pd nanoflowers with excellent catalytic activity towards CO oxidation. <i>Chinese Journal of Chemical Engineering</i> , 2015 , 23, 1907-1915	3.2	20
58	Fabrication of Pd/Al ₂ O ₃ catalysts for hydrogenation of 2-ethyl-9,10-anthraquinone assisted by plant-mediated strategy. <i>Chemical Engineering Journal</i> , 2015 , 262, 356-363	14.7	33
57	Highly efficient hydrogen generation from methanolysis of ammonia borane on CuPd alloy nanoparticles. <i>Nanotechnology</i> , 2015 , 26, 025401	3.4	15
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> , 2015 , 90, 678-685	3.5	11
55	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> , 2015 , 267, 43-50	14.7	10
54	Efficient Ag/CeO ₂ catalysts for CO oxidation prepared with microwave-assisted biosynthesis. <i>Chemical Engineering Journal</i> , 2015 , 269, 105-112	14.7	37
53	Plant-mediated synthesis of size-controllable Ni nanoparticles with alfalfa extract. <i>Materials Letters</i> , 2014 , 122, 166-169	3.3	41

52	Biosynthesis of flat silver nanoflowers: from Flos Magnoliae Officinalis extract to simulation solution. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	4
51	Biosynthesized Ag/Al ₂ O ₃ catalyst for ethylene epoxidation: the influence of silver precursors. <i>RSC Advances</i> , 2014 , 4, 27597-27603	3.7	22
50	Modeling of Silver Nanoparticle Formation in a Microreactor: Reaction Kinetics Coupled with Population Balance Model and Fluid Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4263-4270	3.9	18
49	Biosynthesized Bimetallic AuPd Nanoparticles Supported on TiO ₂ for Solvent-Free Oxidation of Benzyl Alcohol. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1752-1759	8.3	85
48	Influence of Au Particle Size on Au/TiO ₂ Catalysts for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19150-19157	3.8	61
47	Biogenic flower-shaped AuPd nanoparticles: synthesis, SERS detection and catalysis towards benzyl alcohol oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1767-1773	13	67
46	Roles of Biomolecules in the Biosynthesis of Silver Nanoparticles: Case of Gardenia jasminoides Extract. <i>Chinese Journal of Chemical Engineering</i> , 2014 , 22, 706-712	3.2	20
45	Plant-Mediated Synthesis of AgPd Alloy Nanoparticles and Their Application as Catalyst toward Selective Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1212-1218	8.3	60
44	Continuous-flow biosynthesis of AuAg bimetallic nanoparticles in a microreactor. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	10
43	Plant-Mediated Fabrication and Surface Enhanced Raman Property of Flower-Like Au@Pd Nanoparticles. <i>Materials</i> , 2014 , 7, 1360-1369	3.5	24
42	Facile fabrication of Pd nanoparticle/Pichia pastoris catalysts through adsorption-reduction method: a study into effect of chemical pretreatment. <i>Journal of Colloid and Interface Science</i> , 2014 , 433, 204-210	9.3	17
41	Microorganism-mediated, CTAB-directed synthesis of hierarchically branched Au-nanowire/Escherichia coli nanocomposites with strong near-infrared absorbance. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1410-1418	3.5	14
40	Effects of Biomolecules on the Selectivity of Biosynthesized Pd/MgO Catalyst toward Selective Oxidation of Benzyl Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 19128-19135	3.9	11
39	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> , 2014 , 133, 380-387	8.3	3
38	Biosynthesized gold nanoparticles supported over TS-1 toward efficient catalyst for epoxidation of styrene. <i>Chemical Engineering Journal</i> , 2014 , 235, 215-223	14.7	51
37	Microorganism-Mediated Fabrication and Antibacterial Performance of Ag&Al ₂ O ₃ Composites. <i>Current Nanoscience</i> , 2014 , 10, 271-276	1.4	2
36	Quantitative nucleation and growth kinetics of gold nanoparticles via model-assisted dynamic spectroscopic approach. <i>Journal of Colloid and Interface Science</i> , 2013 , 407, 8-16	9.3	25
35	Fabrication of Au/Pd alloy nanoparticle/Pichia pastoris composites: a microorganism-mediated approach. <i>RSC Advances</i> , 2013 , 3, 15389	3.7	15

34	Catalytic gold nanoparticles immobilized on yeast: From biosorption to bioreduction. <i>Chemical Engineering Journal</i> , 2013 , 225, 857-864	14.7	42
33	Microorganism-mediated synthesis of chemically difficult-to-synthesize Au nanohorns with excellent optical properties in the presence of hexadecyltrimethylammonium chloride. <i>Nanoscale</i> , 2013 , 5, 6599-606	7.7	30
32	Green synthesis of AuAg alloy nanoparticles using <i>Cacumen platycladi</i> extract. <i>RSC Advances</i> , 2013 , 3, 1878-1884	3.7	85
31	Trisodium Citrate-Assisted Biosynthesis of Silver Nanoflowers by <i>Canarium album</i> Foliar Broths as a Platform for SERS Detection. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5085-5094	3.9	29
30	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 & Engineering Chemistry Research</i> , 2013 , 52, 2280-2289	3.9	10
29	Anatase type extra-framework titanium in TS-1: A vital factor influencing the catalytic activity toward styrene epoxidation. <i>Applied Catalysis A: General</i> , 2013 , 459, 1-7	5.1	44
28	Plant-mediated synthesis of platinum nanoparticles and its bioreductive mechanism. <i>Journal of Colloid and Interface Science</i> , 2013 , 396, 138-45	9.3	92
27	Two-step size- and shape-separation of biosynthesized gold nanoparticles. <i>Separation and Purification Technology</i> , 2013 , 106, 117-122	8.3	39
26	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> , 2013 , 15, 1	2.3	32
25	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> , 2013 , 366, 215-221		38
24	Preparation of Ag/Al ₂ O ₃ for ethylene epoxidation through thermal decomposition assisted by extract of <i>Cinnamomum camphora</i> . <i>RSC Advances</i> , 2013 , 3, 20732	3.7	12
23	Synthesis of Gold Nanoplates with Bioreducing Agent Using Syringe Pumps: A Kinetic Control. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15753-15762	3.9	35
22	Methanolysis of Ammonia Borane by CoPd Nanoparticles. <i>ACS Catalysis</i> , 2012 , 2, 1290-1295	13.1	83
21	Microfluidic biosynthesis of silver nanoparticles: Effect of process parameters on size distribution. <i>Chemical Engineering Journal</i> , 2012 , 209, 568-576	14.7	31
20	A facile synthesis of MPd (M = Co, Cu) nanoparticles and their catalysis for formic acid oxidation. <i>Nano Letters</i> , 2012 , 12, 1102-6	11.5	208
19	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 & Engineering Chemistry Research</i> , 2012 , 51, 16651-16659	3.9	13
18	Liquid phase oxidation of benzyl alcohol to benzaldehyde with novel uncalcined bioreduction Au catalysts: High activity and durability. <i>Chemical Engineering Journal</i> , 2012 , 187, 232-238	14.7	91
17	Stable Silver Nanoparticles with Narrow Size Distribution Non-enzymatically Synthesized by <i>Aeromonas</i> sp. SH10 Cells in the Presence of Hydroxyl Ions. <i>Current Nanoscience</i> , 2012 , 8, 838-846	1.4	14

16	Biogenic Silver Nanoparticles by Cacumen Platycladi Extract: Synthesis, Formation Mechanism, and Antibacterial Activity. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9095-9106	3.9	141
15	Catalytic hydrolysis of ammonia borane via cobalt palladium nanoparticles. <i>ACS Nano</i> , 2011 , 5, 6458-64	16.7	232
14	Ionic liquid-enhanced immobilization of biosynthesized Au nanoparticles on TS-1 toward efficient catalysts for propylene epoxidation. <i>Journal of Catalysis</i> , 2011 , 283, 192-201	7.3	106
13	Vapor-Phase Propylene Epoxidation with H ₂ /O ₂ over Bioreduction Au/TS-1 Catalysts: Synthesis, Characterization, and Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9019-9028	3.9	44
12	Green synthesis of palladium nanoparticles using broth of Cinnamomum camphora leaf. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1589-1598	2.3	263
11	Nature factory of silver nanowires: Plant-mediated synthesis using broth of Cassia fistula leaf. <i>Chemical Engineering Journal</i> , 2010 , 162, 852-858	14.7	112
10	Effect of recycling flux on performance and characteristics of activated sludge hydrolytic-aerobic recycling process in degradation of 2,4-dichlorophenol. <i>Journal of Hazardous Materials</i> , 2009 , 168, 203-9	12.8	6
9	Removal of anthraquinone reactive dye from wastewater by batch hydrolytic-aerobic recycling process. <i>Separation and Purification Technology</i> , 2009 , 67, 180-186	8.3	18
8	Isolation and identification of polyphenolic compounds in longan pericarp. <i>Separation and Purification Technology</i> , 2009 , 70, 219-224	8.3	27
7	Continuous-Flow Biosynthesis of Silver Nanoparticles by Lixivium of Sundried Cinnamomum camphora Leaf in Tubular Microreactors. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 6081-6090	3.9	94
6	Visbreaking of heavy petroleum oil catalyzed by SO ₄ ²⁻ /ZrO ₂ solid super-acid doped with Ni ²⁺ or Sn ²⁺ . <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 186-190		7
5	High efficiency of batch operated biofilm hydrolytic-aerobic recycling process in degradation of 2,4-dichlorophenol. <i>Journal of Hazardous Materials</i> , 2008 , 152, 536-44	12.8	8
4	Accumulation of silver(I) ion and diamine silver complex by Aeromonas SH10 biomass. <i>Applied Biochemistry and Biotechnology</i> , 2007 , 143, 54-62	3.2	40
3	Biosynthesis of silver and gold nanoparticles by novel sundried Cinnamomum camphora leaf. <i>Nanotechnology</i> , 2007 , 18, 105104	3.4	1123
2	Rapid Preparation Process of Silver Nanoparticles by Bioreduction and Their Characterizations. <i>Chinese Journal of Chemical Engineering</i> , 2006 , 14, 114-117	3.2	145
1	Biosorption and bioreduction of diamine silver complex by Corynebacterium. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 285-290	3.5	144