Feng-Yu Zhao

List of Publications by Year
in descending order

84 papers	3,963 citations	109321 35 h-index	128289 60 g-index
85 all docs	85 docs citations	85 times ranked	5078 citing authors

#	Article	IF	Citations
1	Heck Reactions of Iodobenzene and Methyl Acrylate with Conventional Supported Palladium Catalysts in the Presence of Organic and/or Inorganic Bases without Ligands. Chemistry - A European Journal, 2000, 6, 843-848.	3.3	292
2	Synthesis of styrene carbonate from styrene oxide and carbon dioxide in the presence of zinc bromide and ionic liquid under mild conditions. Green Chemistry, 2004, 6, 613.	9.0	219
3	Facile synthesis of a Co₃O₄â€"carbon nanotube composite and its superior performance as an anode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 1141-1147.	10.3	169
4	Synthesis of urea derivatives from amines and CO2 in the absence of catalyst and solvent. Green Chemistry, 2010, 12, 1811.	9.0	144
5	Selective hydrogenation of nitrobenzene to aniline in dense phase carbon dioxide over Ni/Î³-Al2O3: Significance of molecular interactions. Journal of Catalysis, 2009, 264, 1-10.	6.2	138
6	High performance of Ir-promoted Ni/TiO2 catalyst toward the selective hydrogenation of cinnamaldehyde. Journal of Catalysis, 2013, 303, 110-116.	6.2	132
7	Hydrodeoxygenation of lignin-derived phenolics â€" a review on the active sites of supported metal catalysts. Green Chemistry, 2020, 22, 8140-8168.	9.0	131
8	One-step hydrothermal synthesis of SnS2/graphene composites as anode material for highly efficient rechargeable lithium ion batteries. RSC Advances, 2012, 2, 5084.	3.6	115
9	The hydrogenation/dehydrogenation activity of supported Ni catalysts and their effect on hexitols selectivity in hydrolytic hydrogenation of cellulose. Journal of Catalysis, 2014, 309, 468-476.	6.2	104
10	Selective hydrogenation of chloronitrobenzene to chloroaniline in supercritical carbon dioxide over Ni/TiO2: Significance of molecular interactions. Journal of Catalysis, 2010, 269, 131-139.	6.2	92
11	Selective conversion of concentrated microcrystalline cellulose to isosorbide over Ru/C catalyst. Green Chemistry, 2011, 13, 839.	9.0	80
12	A self-healing and recyclable polyurethane-urea Dielsâ€"Alder adduct synthesized from carbon dioxide and furfuryl amine. Green Chemistry, 2021, 23, 552-560.	9.0	76
13	One-pot synthesis of flowerlike Ni7S6and its application in selective hydrogenation of chloronitrobenzene. Journal of Materials Chemistry, 2010, 20, 1078-1085.	6.7	75
14	Polyureas from diamines and carbon dioxide: synthesis, structures and properties. Physical Chemistry Chemical Physics, 2012, 14, 464-468.	2.8	72
15	Hydrogenation of Benzaldehyde and Cinnamaldehyde in Compressed CO2Medium with a Pt/C Catalyst:Â A Study on Molecular Interactions and Pressure Effects. Journal of Physical Chemistry A, 2005, 109, 4419-4424.	2.5	71
16	Steaming multiwalled carbon nanotubes via acid vapour for controllable nanoengineering and the fabrication of carbon nanoflutes. Chemical Communications, 2011, 47, 5223.	4.1	70
17	Selective conversion of microcrystalline cellulose into hexitols on nickel particles encapsulated within ZSM-5 zeolite. Green Chemistry, 2012, 14, 2146.	9.0	67
18	Metal-free catalytic conversion of CO₂ and glycerol to glycerol carbonate. Green Chemistry, 2017, 19, 1775-1781.	9.0	64

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19	Colorless polyimides derived from 2R,5R,7S,10S-naphthanetetracarboxylic dianhydride. Polymer Chemistry, 2017, 8, 6165-6172.	3.9	62
20	Fine control of titania deposition to prepare C@TiO2 composites and TiO2 hollow particles for photocatalysis and lithium-ion battery applications. Journal of Materials Chemistry, 2012, 22, 22135.	6.7	61
21	Sodium salt effect on hydrothermal carbonization of biomass: a catalyst for carbon-based nanostructured materials for lithium-ion battery applications. Green Chemistry, 2013, 15, 2722.	9.0	61
22	CO2-assisted template synthesis of porous hollow bi-phase Î³-/Î±-Fe2O3 nanoparticles with high sensor property. Journal of Materials Chemistry, 2011, 21, 17776.	6.7	58
23	CO2â€“expanded ethanol chemical synthesis of a Fe3O4@graphene composite and its good electrochemical properties as anode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3954.	10.3	58
24	Highly selective Pt/ordered mesoporous TiO 2 â€“SiO 2 catalysts for hydrogenation of cinnamaldehyde: The promoting role of Ti 2+. Journal of Colloid and Interface Science, 2016, 463, 75-82.	9.4	58
25	Synthesis of Ni/mesoporous ZSM-5 for direct catalytic conversion of cellulose to hexitols: modulating the pore structure and acidic sites via a nanocrystalline cellulose template. Green Chemistry, 2016, 18, 3315-3323.	9.0	55
26	Carbon dioxide-expanded liquid substrate phase: an effective medium for selective hydrogenation of cinnamaldehyde to cinnamyl alcohol. Chemical Communications, 2004, , 2326.	4.1	54
27	Selective reduction of phenol derivatives to cyclohexanones in water under microwave irradiation. New Journal of Chemistry, 2012, 36, 1085.	2.8	52
28	An effective medium of H2O and low-pressure CO2 for the selective hydrogenation of aromatic nitro compounds to anilines. Green Chemistry, 2011, 13, 570.	9.0	51
29	Synthesis of polyurea from 1,6-hexanediamine with CO 2 through a two-step polymerization. Green Energy and Environment, 2017, 2, 370-376.	8.7	51
30	Solvent effects on heterogeneous catalysis in the selective hydrogenation of cinnamaldehyde over a conventional Pd/C catalyst. Catalysis Science and Technology, 2018, 8, 3580-3589.	4.1	49
31	Hydrogenation of phenol with supported Rh catalysts in the presence of compressed CO2: Its effects on reaction rate, product selectivity and catalyst life. Journal of Supercritical Fluids, 2010, 54, 190-201.	3.2	44
32	Carbon dioxide-induced homogeneous deposition of nanometer-sized cobalt ferrite (CoFe2O4) on graphene as high-rate and cycle-stable anode materials for lithium-ion batteries. Journal of Power Sources, 2015, 275, 650-659.	7.8	41
33	Chlorine-Modified Ru/TiO₂ Catalyst for Selective Guaiacol Hydrodeoxygenation. ACS Sustainable Chemistry and Engineering, 2021, 9, 3083-3094.	6.7	40
34	Pt/TiH₂ Catalyst for Ionic Hydrogenation via Stored Hydrides in the Presence of Gaseous H₂. ACS Catalysis, 2019, 9, 6425-6434.	11.2	39
35	Direct Synthesis of Polyurea Thermoplastics from CO₂ and Diamines. ACS Applied Materials & Interfaces, 2019, 11, 47413-47421.	8.0	37
36	Selective hydrogenation of cinnamaldehyde using rutheniumâ€“phosphine complex catalysts with multiphase reaction systems in and under pressurized carbon dioxide: Significance of pressurization and interfaces for the control of selectivity. Journal of Catalysis, 2005, 236, 101-111.	6.2	36

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37	A Robust Ru/ZSMâ€5 Hydrogenation Catalyst: Insights into the Resistances to Ruthenium Aggregation and Carbon Deposition. ChemCatChem, 2017, 9, 3646-3654.	3.7	33
38	<i>In situ</i> synthesis of Ni/NiO composites with defect-rich ultrathin nanosheets for highly efficient biomass-derivative selective hydrogenation. Journal of Materials Chemistry A, 2019, 7, 17834-17841.	10.3	33
39	Synthesis of Polyurea via the Addition of Carbon Dioxide to a Diamine Catalyzed by Organic and Inorganic Bases. Advanced Synthesis and Catalysis, 2019, 361, 317-325.	4.3	33
40	Selective N-Methylation of <i>N</i>-Methylaniline with CO₂ and H₂ over TiO₂-Supported PdZn Catalyst. ACS Catalysis, 2020, 10, 3285-3296.	11.2	33
41	Cyclization of citronellal to p-menthane-3,8-diols in water and carbon dioxide. Green Chemistry, 2009, 11, 1227.	9.0	31
42	Theoretical study on interaction between CO2 and carbonyl compounds: Influence of CO2 on infrared spectroscopy and activity of CO. Journal of Supercritical Fluids, 2010, 54, 9-15.	3.2	29
43	Metal Catalysts Recycling and Heterogeneous/Homogeneous Catalysis. Catalysts, 2015, 5, 868-870.	3.5	29
44	Synthesis of polyurethane-urea from double CO₂-route oligomers. Green Chemistry, 2016, 18, 3614-3619.	9.0	29
45	Selective hydrogenation of citral catalyzed with palladium nanoparticles in CO2-in-water emulsion. Green Chemistry, 2009, 11, 979.	9.0	28
46	Utilization of carbon dioxide to build a basic block for polymeric materials: an isocyanate-free route to synthesize a soluble oligourea. RSC Advances, 2015, 5, 42095-42100.	3.6	28
47	A facile strategy for confining ZnPd nanoparticles into a ZnO@Al2O3 support: A stable catalyst for glycerol hydrogenolysis. Journal of Catalysis, 2016, 337, 284-292.	6.2	28
48	Transformation of Î³-valerolactone into 1,4-pentanediol and 2-methyltetrahydrofuran over Zn-promoted Cu/Al₂O₃ catalysts. Catalysis Science and Technology, 2020, 10, 4412-4423.	4.1	28
49	Chemoselective hydrogenation of 3-nitrostyrene to 3-aminostyrene over Pt-Bi/TiO 2 catalysts. Molecular Catalysis, 2017, 432, 23-30.	2.0	27
50	Selective hydrogenation of unsaturated aldehydes in a poly(ethylene glycol)/compressed carbon dioxide biphasic system. Green Chemistry, 2008, 10, 1082.	9.0	26
51	Knitting an oxygenated network-coat on carbon nanotubes from biomass and their applications in catalysis. Journal of Materials Chemistry, 2011, 21, 10929.	6.7	26
52	A new strategy for finely controlling the metal (oxide) coating on colloidal particles with tunable catalytic properties. Journal of Materials Chemistry, 2011, 21, 6654.	6.7	26
53	The effect of water on the hydrogenation of o-chloronitrobenzene in ethanol, n-heptane and compressed carbon dioxide. Applied Catalysis A: General, 2013, 455, 8-15.	4.3	25
54	Effect of Phosphine Doping and the Surface Metal State of Ni on the Catalytic Performance of Ni/Al2O3 Catalyst. Catalysts, 2015, 5, 759-773.	3.5	25

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55	PdGa/TiO₂ an efficient heterogeneous catalyst for direct methylation of N-methylaniline with CO₂/H₂. RSC Advances, 2016, 6, 103650-103656.	3.6	25
56	Hydrogenation of levulinic acid by RuCl₂(PPh₃)₃ in supercritical CO₂: the significance of structural changes of Ru complexes via interaction with CO₂. Green Chemistry, 2016, 18, 3370-3377.	9.0	25
57	Synthesis of a novel hydrophobic polyurea gel from CO 2 and amino-modified polysiloxane. Journal of CO2 Utilization, 2016, 15, 131-135.	6.8	22
58	A self-healing and recyclable poly(urea-imine) thermoset synthesized from CO₂. Green Chemistry, 2022, 24, 1561-1569.	9.0	21
59	Highly selective and efficient catalytic conversion of ethyl stearate into liquid hydrocarbons over a Ru/TiO2 catalyst under mild conditions. Catalysis Science and Technology, 2012, 2, 1328.	4.1	20
60	Pd and PdZn supported on ZnO as catalysts for the hydrogenation of cinnamaldehyde to hydrocinnamyl alcohol. Molecular Catalysis, 2017, 442, 12-19.	2.0	20
61	Macroporousâ€“mesoporous carbon supported Ni catalysts for the conversion of cellulose to polyols. Green Chemistry, 2018, 20, 3634-3642.	9.0	19
62	<i>N</i>â€Methylation of <i>N</i>â€Methylaniline with Carbon Dioxide and Molecular Hydrogen over a Heterogeneous Nonâ€Noble Metal Cu/TiO₂ Catalyst. ChemCatChem, 2019, 11, 3919-3926.	3.7	19
63	ZSM-5-supported multiply-twinned nickel particles: Formation, surface properties, and high catalytic performance in hydrolytic hydrogenation of cellulose. Journal of Catalysis, 2015, 325, 79-86.	6.2	18
64	Reductive amination of 1,6-hexanediol with Ru/Al2O3 catalyst in supercritical ammonia. Science China Chemistry, 2017, 60, 920-926.	8.2	18
65	New Kind of Thermoplastic Polyurea Elastomers Synthesized from CO₂ and with Self-Healing Properties. ACS Sustainable Chemistry and Engineering, 2020, 8, 12677-12685.	6.7	18
66	Efficient hydrodeoxygenation of guaiacol to phenol over Ru/Tiâ€“SiO₂ catalysts: the significance of defect-rich TiO_{<i>x</i>} species. Green Chemistry, 2022, 24, 5822-5834.	9.0	18
67	Selective Hydrogenation of m-Dinitrobenzene to m-Nitroaniline over Ru-SnOx/Al2O3 Catalyst. Catalysts, 2014, 4, 276-288.	3.5	17
68	Synthesis of polyureas with CO 2 as carbonyl building block and their high performances. Journal of CO2 Utilization, 2017, 19, 209-213.	6.8	17
69	Hydrodeoxygenation of ethyl stearate over Re-promoted Ru/TiO₂ catalysts: rate enhancement and selectivity control by the addition of Re. Catalysis Science and Technology, 2020, 10, 222-230.	4.1	17
70	Seed- and solvent-free synthesis of ZSM-5 with tuneable Si/Al ratios for biomass hydrogenation. Green Chemistry, 2020, 22, 1630-1638.	9.0	17
71	Transfer hydrogenation of citral to citronellol with Ru complexes in the mixed solvent of water and polyethylene glycol. Applied Organometallic Chemistry, 2010, 24, 763-766.	3.5	16
72	Synthesis of Polyurea Thermoplastics through a Nonisocyanate Route Using CO2 and Aliphatic Diamines. ACS Sustainable Chemistry and Engineering, 2020, 8, 18626-18635.	6.7	14

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73	Aerobic Catalytic Oxidation of Cyclohexene over TiZrCo Catalysts. Catalysts, 2016, 6, 24.	3.5	13
74	Selective hydrogenation of o-chloronitrobenzene over anatase-ferric oxides supported Ir nanocomposite catalyst. Journal of Colloid and Interface Science, 2014, 432, 200-206.	9.4	11
75	Coating of Al2O3 on layered Li(Mn1/3Ni1/3Co1/3)O2 using CO2 as green precipitant and their improved electrochemical performance for lithium ion batteries. Journal of Energy Chemistry, 2013, 22, 468-476.	12.9	10
76	A stable and active AgxS crystal preparation and its performance as photocatalyst. Chinese Journal of Catalysis, 2015, 36, 564-571.	14.0	10
77	A green and efficient route for preparation of supported metal colloidal nanoparticles in scCO2. Green Chemistry, 2010, 12, 1417.	9.0	8
78	Photocatalytic Reduction of Aromatic Nitro Compounds with Ag/Ag_{<i>x</i>}S Composites under Visible Light Irradiation. Journal of Physical Chemistry C, 2021, 125, 26021-26030.	3.1	8
79	Selective hydrogenation of citral over Au-based bimetallic catalysts in supercritical carbon dioxide. Science China Chemistry, 2010, 53, 1571-1577.	8.2	7
80	A green process for production of p -aminophenol from nitrobenzene hydrogenation in CO 2 /H 2 O: The promoting effects of CO 2 and H 2 O. Journal of CO2 Utilization, 2017, 18, 229-236.	6.8	7
81	Hydrogenation of biomass lactones to diols over CuLax/Î³-Al2O3 catalystï¼šThe promoting role of LaOx. Applied Catalysis B: Environmental, 2022, 317, 121689.	20.2	6
82	The promoting effects of CO 2 and H 2 O on selective hydrogenations in CO 2 /H 2 O biphasic system. Current Opinion in Green and Sustainable Chemistry, 2018, 10, 46-50.	5.9	3
83	Cyclic oligourea synthesized from CO2: Purification, characterization and properties. Green Energy and Environment, 2022, 7, 477-484.	8.7	3
84	Influence of BrÃ¸nsted acid sites on the product distribution in the hydrodeoxygenation of methyl laurate over supported Ru catalysts. Catalysis Science and Technology, 0, , .	4.1	0