

Yong Cao

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.

78 papers	4,256 citations	39 h-index	64 g-index
81 ext. papers	4,704 ext. citations	7.7 avg, IF	5.31 L-index

#	Paper	IF	Citations
78	Total hydrogenation of bio-derived furans over supported Ru subnanoclusters prepared via amino acid-assisted deposition. <i>Green Chemistry</i> , 2020 , 22, 850-859	10	4
77	Direct and Efficient Synthesis of Clean H ₂ O ₂ from CO-Assisted Aqueous O ₂ Reduction. <i>ACS Catalysis</i> , 2020 , 10, 13993-14005	13.1	2
76	Exploiting quasi-one-dimensional confinement for proficient hydrogen production from formic acid at room temperature. <i>Journal of Energy Chemistry</i> , 2020 , 49, 205-213	12	1
75	Ring-Opening Transformation of 5-Hydroxymethylfurfural Using a Golden Single-Atomic-Site Palladium Catalyst. <i>ACS Catalysis</i> , 2019 , 9, 6212-6222	13.1	31
74	Direct conversion of CO and HO into liquid fuels under mild conditions. <i>Nature Communications</i> , 2019 , 10, 1389	17.4	19
73	Interface synergy between IrO _x and H-ZSM-5 in selective CO hydrogenolysis of glycerol toward 1,3-propanediol. <i>Journal of Catalysis</i> , 2019 , 375, 339-350	7.3	19
72	Toward an Integrated Conversion of 5-Hydroxymethylfurfural and Ethylene for the Production of Renewable p-Xylene. <i>Chem</i> , 2018 , 4, 2212-2227	16.2	34
71	Wettability-Driven Palladium Catalysis for Enhanced Dehydrogenative Coupling of Organosilanes. <i>ACS Catalysis</i> , 2017 , 7, 1720-1727	13.1	41
70	An efficient noble-metal-free supported copper catalyst for selective nitrocyclohexane hydrogenation to cyclohexanone oxime. <i>Chemical Communications</i> , 2017 , 53, 2930-2933	5.8	6
69	Highly Chemoselective Reduction of Nitroarenes Using a Titania-Supported Platinum-Nanoparticle Catalyst under a CO Atmosphere. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 591-595	4.9	7
68	Direct Synthesis of Pyrroles via Heterogeneous Catalytic Condensation of Anilines with Bioderived Furans. <i>ACS Catalysis</i> , 2017 , 7, 959-964	13.1	24
67	Constructing Three-Dimensional Mesoporous Bouquet-Posy-like TiO Superstructures with Radially Oriented Mesochannels and Single-Crystal Walls. <i>Journal of the American Chemical Society</i> , 2017 , 139, 517-526	16.4	53
66	Towards More Sustainable Chemical Synthesis, Using Formic Acid as a Renewable Feedstock 2017 , 283-306		
65	Versatile CO-assisted direct reductive amination of 5-hydroxymethylfurfural catalyzed by a supported gold catalyst. <i>Green Chemistry</i> , 2017 , 19, 3880-3887	10	42
64	Dehydrogenation of Formic Acid at Room Temperature: Boosting Palladium Nanoparticle Efficiency by Coupling with Pyridinic-Nitrogen-Doped Carbon. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11849-53	16.4	213
63	Direct reductive amination of aldehydes with nitroarenes using bio-renewable formic acid as a hydrogen source. <i>Green Chemistry</i> , 2016 , 18, 2507-2513	10	62
62	Towards quantitative and scalable transformation of furfural to cyclopentanone with supported gold catalysts. <i>Green Chemistry</i> , 2016 , 18, 2155-2164	10	93

61	Heterogeneous Gold-Catalyzed Selective Semireduction of Alkynes using Formic Acid as Hydrogen Source. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 1410-1416	5.6	23
60	Gold supported on zirconia polymorphs for hydrogen generation from formic acid in base-free aqueous medium. <i>Journal of Power Sources</i> , 2016 , 328, 463-471	8.9	41
59	Promoted hydrogen generation from formic acid with amines using Au/ZrO ₂ catalyst. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21193-21202	6.7	31
58	Dehydrogenation of Formic Acid at Room Temperature: Boosting Palladium Nanoparticle Efficiency by Coupling with Pyridinic-Nitrogen-Doped Carbon. <i>Angewandte Chemie</i> , 2016 , 128, 12028-12032	3.6	36
57	Formic acid: A versatile renewable reagent for green and sustainable chemical synthesis. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1461-1475	11.3	73
56	Gold-Catalyzed Reductive Transformation of Nitro Compounds Using Formic Acid: Mild, Efficient, and Versatile. <i>ChemSusChem</i> , 2015 , 8, 3029-35	8.3	77
55	Heterogeneous Gold-Catalyzed Selective Reductive Transformation of Quinolines with Formic Acid. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 753-760	5.6	49
54	Propylene from renewable resources: catalytic conversion of glycerol into propylene. <i>ChemSusChem</i> , 2014 , 7, 743-7	8.3	37
53	Supported gold catalysis: from small molecule activation to green chemical synthesis. <i>Accounts of Chemical Research</i> , 2014 , 47, 793-804	24.3	153
52	An aqueous rechargeable formate-based hydrogen battery driven by heterogeneous Pd catalysis. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13583-7	16.4	113
51	Efficient and exceptionally selective semireduction of alkynes using a supported gold catalyst under a CO atmosphere. <i>Chemical Communications</i> , 2014 , 50, 5626-8	5.8	30
50	Gold supported on titania for specific monohydrogenation of dinitroaromatics in the liquid phase. <i>Green Chemistry</i> , 2014 , 16, 4162	10	19
49	Mesostructured graphitic carbon nitride as a new base catalyst for the efficient synthesis of dimethyl carbonate by transesterification. <i>Catalysis Science and Technology</i> , 2013 , 3, 3192	5.5	61
48	Mild, selective and switchable transfer reduction of nitroarenes catalyzed by supported gold nanoparticles. <i>Catalysis Science and Technology</i> , 2013 , 3, 3200	5.5	76
47	Efficient catalytic hydrogenolysis of glycerol using formic acid as hydrogen source. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 2066-2074	11.3	24
46	Copper-based catalysts for the efficient conversion of carbohydrate biomass into γ -valerolactone in the absence of externally added hydrogen. <i>Energy and Environmental Science</i> , 2013 , 6, 3308	35.4	148
45	Synthesis of Three-Dimensional Mesostructured Graphitic Carbon Nitride Materials and their Application as Heterogeneous Catalysts for Knoevenagel Condensation Reactions. <i>Catalysis Letters</i> , 2013 , 143, 600-609	2.8	59
44	Tunable copper-catalyzed chemoselective hydrogenolysis of biomass-derived γ -valerolactone into 1,4-pentanediol or 2-methyltetrahydrofuran. <i>Green Chemistry</i> , 2012 , 14, 935	10	159

43	Efficient subnanometric gold-catalyzed hydrogen generation via formic acid decomposition under ambient conditions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8926-33	16.4	342
42	Graphite oxide as an efficient and durable metal-free catalyst for aerobic oxidative coupling of amines to imines. <i>Green Chemistry</i> , 2012 , 14, 930	10	200
41	Gold supported on mesostructured ceria as an efficient catalyst for the chemoselective hydrogenation of carbonyl compounds in neat water. <i>Green Chemistry</i> , 2011 , 13, 602	10	84
40	Direct one-pot reductive imination of nitroarenes using aldehydes and carbon monoxide by titania supported gold nanoparticles at room temperature. <i>Green Chemistry</i> , 2011 , 13, 2672	10	49
39	The Catalytic Use of Supported Gold Nanoparticles for Styrene Synthesis Via Oxidative Dehydrogenation of Ethylbenzene. <i>Catalysis Letters</i> , 2011 , 141, 198-206	2.8	7
38	Highly Chemo- and Regioselective Transfer Reduction of Aromatic Nitro Compounds using Ammonium Formate Catalyzed by Supported Gold Nanoparticles. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 281-286	5.6	83
37	Single-Crystal-like Titania Mesocages. <i>Angewandte Chemie</i> , 2011 , 123, 1137-1140	3.6	18
36	Hydrogen-Independent Reductive Transformation of Carbohydrate Biomass into γ -Valerolactone and Pyrrolidone Derivatives with Supported Gold Catalysts. <i>Angewandte Chemie</i> , 2011 , 123, 7961-7965	3.6	85
35	Hydrogen-independent reductive transformation of carbohydrate biomass into γ -valerolactone and pyrrolidone derivatives with supported gold catalysts. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7815-9	16.4	264
34	A novel gold-catalyzed chemoselective reduction of α,β -unsaturated aldehydes using CO and H ₂ O as the hydrogen source. <i>Chemical Communications</i> , 2010 , 46, 1553-5	5.8	56
33	A novel non-phosgene process for the synthesis of methyl N-phenyl carbamate from methanol and phenylurea: Effect of solvent and catalyst. <i>Chinese Journal of Chemistry</i> , 2010 , 22, 782-786	4.9	
32	Efficient and selective room-temperature gold-catalyzed reduction of nitro compounds with CO and H ₂ O as the hydrogen source. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9538-41	16.4	197
31	Mesostructured CeO ₂ as an Effective Catalyst for Styrene Synthesis by Oxidative Dehydrogenation of Ethylbenzene. <i>Catalysis Letters</i> , 2009 , 133, 307-313	2.8	29
30	The Role of the Promoters in Cu Based Catalysts for Methanol Steam Reforming. <i>Catalysis Letters</i> , 2009 , 130, 177-184	2.8	58
29	Highly Selective Cu ₂ Ni Catalysts for Efficient Low Temperature Oxidative Dehydrogenation of Propane. <i>Catalysis Letters</i> , 2009 , 130, 350-354	2.8	34
28	A green and efficient oxidation of alcohols by supported gold catalysts using aqueous H ₂ O ₂ under organic solvent-free conditions. <i>Green Chemistry</i> , 2009 , 11, 756	10	86
27	MnO ₂ Nanorod Supported Gold Nanoparticles with Enhanced Activity for Solvent-free Aerobic Alcohol Oxidation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6981-6987	3.8	101
26	Waste-free Soft Reactive Grinding Synthesis of High-Surface-Area Copper-Manganese Spinel Oxide Catalysts Highly Effective for Methanol Steam Reforming. <i>Catalysis Letters</i> , 2008 , 121, 144-150	2.8	38

25	Enhanced Activity of Spinel-type Ga ₂ O ₃ /Al ₂ O ₃ Mixed Oxide for the Dehydrogenation of Propane in the Presence of CO ₂ . <i>Catalysis Letters</i> , 2008 , 124, 369-375	2.8	30
24	Aluminum Containing MCF Silica as Highly Efficient Solid Acid Catalyst for Alcohol Esterification. <i>Catalysis Letters</i> , 2008 , 125, 62-68	2.8	22
23	Novel Flower-Like Ag-SiO ₂ -MgO-Al ₂ O ₃ Material: Preparation, Characterization and Catalytic Application in Methanol Dehydrogenation. <i>Chinese Journal of Chemistry</i> , 2008 , 26, 1045-1051	4.9	1
22	A green process for O-heterocyclization of cycloocta-1,5-diene by peroxotungstic species with aqueous H ₂ O ₂ . <i>Green Chemistry</i> , 2007 , 9, 878	10	5
21	Synthesis of Well-Ordered Mesoporous Titania with Tunable Phase Content and High Photoactivity. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11849-11853	3.8	56
20	Chromium Supported on Mesocellular Silica Foam (MCF) for Oxidative Dehydrogenation of Propane. <i>Catalysis Letters</i> , 2006 , 106, 145-152	2.8	30
19	Red Electrophosphorescence of Conjugated Organoplatinum(II) Polymers Prepared via Direct Metalation of Poly(fluorene-co-tetraphenylporphyrin) Copolymers. <i>Organometallics</i> , 2005 , 24, 4509-4518	3.8	42
18	Synthesis and characterization of thermally stable mesostructured sulfated zirconia by a novel sulfate-assisted alcohothermal route. <i>Catalysis Letters</i> , 2005 , 99, 73-78	2.8	9
17	Direct dehydrogenation of methanol to formaldehyde over pre-treated polycrystalline silver catalyst. <i>Catalysis Letters</i> , 2005 , 99, 83-87	2.8	10
16	Catalytic oxidation of methane over novel Ce/NiO mixed oxide catalysts prepared by oxalate gel-coprecipitation. <i>Catalysis Letters</i> , 2005 , 99, 207-213	2.8	46
15	A highly efficient Cu/ZnO/Al ₂ O ₃ catalyst via gel-coprecipitation of oxalate precursors for low-temperature steam reforming of methanol. <i>Catalysis Letters</i> , 2005 , 102, 183-190	2.8	45
14	Direct production of hydrogen peroxide from CO, O ₂ , and H ₂ O over a novel alumina-supported Cu catalyst. <i>New Journal of Chemistry</i> , 2004 , 28, 1431	3.6	3
13	A Density Functional Theory Study on the Adsorption of Chlorobenzene on the Si(111)-7 × 7 Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14049-14055	3.4	15
12	Highly Effective Oxidative Dehydrogenation of Propane Over Vanadia Supported on Mesoporous SBA-15 Silica. <i>Catalysis Letters</i> , 2003 , 88, 61-67	2.8	63
11	Novel Highly Active Ag/SiO ₂ /MgO Catalysts Used for Direct Dehydrogenation of Methanol to Anhydrous Formaldehyde. <i>Catalysis Letters</i> , 2003 , 85, 81-85	2.8	11
10	The nonisothermal decomposition kinetics of copper(II) complexes with phthalanilic acids and amino acids. <i>International Journal of Chemical Kinetics</i> , 2003 , 35, 623-628	1.4	
9	CuCl catalyst heterogenized on diamide immobilized SBA-15 for efficient oxidative carbonylation of methanol to dimethylcarbonate. <i>Chemical Communications</i> , 2003 , 908-9	5.8	52
8	In situ Raman studies on the interaction of oxygen and methanol with an iodine-modified electrolytic silver catalyst. <i>Journal of Raman Spectroscopy</i> , 2002 , 33, 318-324	2.3	10

7	Characterization of High-Surface-Area Zirconia Aerogel Synthesized from Combined Alcohothermal and Supercritical Fluid Drying Techniques. <i>Catalysis Letters</i> , 2002 , 81, 107-112	2.8	40
6	CO ₂ Hydrogenation to Methanol Over Cu/ZnO/Al ₂ O ₃ Catalysts Prepared by a Novel Gel-Network-Coprecipitation Method. <i>Catalysis Letters</i> , 2002 , 82, 37-44	2.8	50
5	Oxidative Dehydrogenation of Propane over Mesoporous HMS Silica Supported Vanadia. <i>Catalysis Letters</i> , 2001 , 75, 107-112	2.8	44
4	Evidence for Dangling Bond Mediated Dimerization of Furan on the Silicon (111)-(7×7) Surface. <i>Angewandte Chemie</i> , 2000 , 112, 2852-2855	3.6	1
3	Novel sol-gel-derived Ag/SiO ₂ /Al ₂ O ₃ catalysts for highly selective oxidation of methanol to formaldehyde. <i>Catalysis Letters</i> , 2000 , 64, 37-40	2.8	13
2	Dry Thienylation of the Silicon (111)-(7×7) Surface. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1812-1813	16.4	50
1	The role of iodide promoter in selective oxidation of methanol to formaldehyde. <i>Catalysis Letters</i> , 1999 , 63, 49-57	2.8	16