Yong Cao

List of Publications by Citations

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

#	Paper	IF	Citations
78	Efficient subnanometric gold-catalyzed hydrogen generation via formic acid decomposition under ambient conditions. *Journal of the American Chemical Society*, **2012**, 134, 8926-33	16.4	342
77	Hydrogen-independent reductive transformation of carbohydrate biomass into Evalerolactone and pyrrolidone derivatives with supported gold catalysts. *Angewandte Chemie - International Edition*, **2011**, 50, 7815-9	16.4	264
76	Dehydrogenation of Formic Acid at Room Temperature: Boosting Palladium Nanoparticle Efficiency by Coupling with Pyridinic-Nitrogen-Doped Carbon. *Angewandte Chemie - International Edition*, **2016**, 55, 11849-53	16.4	213
75	Graphite oxide as an efficient and durable metal-free catalyst for aerobic oxidative coupling of amines to imines. *Green Chemistry*, **2012**, 14, 930	10	200
74	Efficient and selective room-temperature gold-catalyzed reduction of nitro compounds with CO and H(2)O as the hydrogen source. *Angewandte Chemie - International Edition*, **2009**, 48, 9538-41	16.4	197
73	Tunable copper-catalyzed chemoselective hydrogenolysis of biomass-derived Evalerolactone into 1,4-pentanediol or 2-methyltetrahydrofuran. *Green Chemistry*, **2012**, 14, 935	10	159
72	Supported gold catalysis: from small molecule activation to green chemical synthesis. *Accounts of Chemical Research*, **2014**, 47, 793-804	24.3	153
71	Copper-based catalysts for the efficient conversion of carbohydrate biomass into Evalerolactone in the absence of externally added hydrogen. *Energy and Environmental Science*, **2013**, 6, 3308	35.4	148
70	An aqueous rechargeable formate-based hydrogen battery driven by heterogeneous Pd catalysis. *Angewandte Chemie - International Edition*, **2014**, 53, 13583-7	16.4	113
69	MnO2Nanorod Supported Gold Nanoparticles with Enhanced Activity for Solvent-free Aerobic Alcohol Oxidation. *Journal of Physical Chemistry C*, **2008**, 112, 6981-6987	3.8	101
68	Towards quantitative and scalable transformation of furfural to cyclopentanone with supported gold catalysts. *Green Chemistry*, **2016**, 18, 2155-2164	10	93
67	A green and efficient oxidation of alcohols by supported gold catalysts using aqueous H2O2 under organic solvent-free conditions. *Green Chemistry*, **2009**, 11, 756	10	86
66	Hydrogen-Independent Reductive Transformation of Carbohydrate Biomass into Valerolactone and Pyrrolidone Derivatives with Supported Gold Catalysts. *Angewandte Chemie*, **2011**, 123, 7961-7965	3.6	85
65	Gold supported on mesostructured ceria as an efficient catalyst for the chemoselective hydrogenation of carbonyl compounds in neat water. *Green Chemistry*, **2011**, 13, 602	10	84
64	Highly Chemo- and Regioselective Transfer Reduction of Aromatic Nitro Compounds using Ammonium Formate Catalyzed by Supported Gold Nanoparticles. *Advanced Synthesis and Catalysis*, **2011**, 353, 281-286	5.6	83
63	Gold-Catalyzed Reductive Transformation of Nitro Compounds Using Formic Acid: Mild, Efficient, and Versatile. *ChemSusChem*, **2015**, 8, 3029-35	8.3	77
62	Mild, selective and switchable transfer reduction of nitroarenes catalyzed by supported gold nanoparticles. *Catalysis Science and Technology*, **2013**, 3, 3200	5.5	76

61	Formic acid: A versatile renewable reagent for green and sustainable chemical synthesis. *Chinese Journal of Catalysis*, **2015**, 36, 1461-1475	11.3	73
60	Highly Effective Oxidative Dehydrogenation of Propane Over Vanadia Supported on Mesoporous SBA-15 Silica. *Catalysis Letters*, **2003**, 88, 61-67	2.8	63
59	Direct reductive amination of aldehydes with nitroarenes using bio-renewable formic acid as a hydrogen source. *Green Chemistry*, **2016**, 18, 2507-2513	10	62
58	Mesostructured graphitic carbon nitride as a new base catalyst for the efficient synthesis of dimethyl carbonate by transesterification. *Catalysis Science and Technology*, **2013**, 3, 3192	5.5	61
57	Synthesis of Three-Dimensional Mesostructured Graphitic Carbon Nitride Materials and their Application as Heterogeneous Catalysts for Knoevenagel Condensation Reactions. *Catalysis Letters*, **2013**, 143, 600-609	2.8	59
56	The Role of the Promoters in Cu Based Catalysts for Methanol Steam Reforming. *Catalysis Letters*, **2009**, 130, 177-184	2.8	58
55	A novel gold-catalyzed chemoselective reduction of alpha,beta-unsaturated aldehydes using CO and H2O as the hydrogen source. *Chemical Communications*, **2010**, 46, 1553-5	5.8	56
54	Synthesis of Well-Ordered Mesoporous Titania with Tunable Phase Content and High Photoactivity. *Journal of Physical Chemistry C*, **2007**, 111, 11849-11853	3.8	56
53	Constructing Three-Dimensional Mesoporous Bouquet-Posy-like TiO Superstructures with Radially Oriented Mesochannels and Single-Crystal Walls. *Journal of the American Chemical Society*, **2017**, 139, 517-526	16.4	53
52	CuCl catalyst heterogenized on diamide immobilized SBA-15 for efficient oxidative carbonylation of methanol to dimethylcarbonate. *Chemical Communications*, **2003**, 908-9	5.8	52
51	CO2 Hydrogenation to Methanol Over Cu/ZnO/Al2O3 Catalysts Prepared by a Novel Gel-Network-Coprecipitation Method. *Catalysis Letters*, **2002**, 82, 37-44	2.8	50
50	Dry Thienylation of the Silicon (111)(7 7) Surface. *Journal of the American Chemical Society*, **2000**, 122, 1812-1813	16.4	50
49	Heterogeneous Gold-Catalyzed Selective Reductive Transformation of Quinolines with Formic Acid. *Advanced Synthesis and Catalysis*, **2015**, 357, 753-760	5.6	49
48	Direct one-pot reductive imination of nitroarenes using aldehydes and carbon monoxide by titania supported gold nanoparticles at room temperature. *Green Chemistry*, **2011**, 13, 2672	10	49
47	Catalytic oxidation of methane over novel CeNiO mixed oxide catalysts prepared by oxalate gel-coprecipitation. *Catalysis Letters*, **2005**, 99, 207-213	2.8	46
46	A highly efficient Cu/ZnO/Al2O3 catalyst via gel-coprecipitation of oxalate precursors for low-temperature steam reforming of methanol. *Catalysis Letters*, **2005**, 102, 183-190	2.8	45
45	Oxidative Dehydrogenation of Propane over Mesoporous HMS Silica Supported Vanadia. *Catalysis Letters*, **2001**, 75, 107-112	2.8	44
44	Versatile CO-assisted direct reductive amination of 5-hydroxymethylfurfural catalyzed by a supported gold catalyst. *Green Chemistry*, **2017**, 19, 3880-3887	10	42

43	Red Electrophosphorescence of Conjugated Organoplatinum(II) Polymers Prepared via Direct Metalation of Poly(fluorene-co-tetraphenylporphyrin) Copolymers. *Organometallics*, **2005**, 24, 4509-4518	3.8	42
42	Wettability-Driven Palladium Catalysis for Enhanced Dehydrogenative Coupling of Organosilanes. *ACS Catalysis*, **2017**, 7, 1720-1727	13.1	41
41	Gold supported on zirconia polymorphs for hydrogen generation from formic acid in base-free aqueous medium. *Journal of Power Sources*, **2016**, 328, 463-471	8.9	41
40	Characterization of High-Surface-Area Zirconia Aerogel Synthesized from Combined Alcohothermal and Supercritical Fluid Drying Techniques. *Catalysis Letters*, **2002**, 81, 107-112	2.8	40
39	Waste-free Soft Reactive Grinding Synthesis of High-Surface-Area Copper–Manganese Spinel Oxide Catalysts Highly Effective for Methanol Steam Reforming. *Catalysis Letters*, **2008**, 121, 144-150	2.8	38
38	Propylene from renewable resources: catalytic conversion of glycerol into propylene. *ChemSusChem*, **2014**, 7, 743-7	8.3	37
37	Dehydrogenation of Formic Acid at Room Temperature: Boosting Palladium Nanoparticle Efficiency by Coupling with Pyridinic-Nitrogen-Doped Carbon. *Angewandte Chemie*, **2016**, 128, 12028-12032	3.6	36
36	Toward an Integrated Conversion of 5-Hydroxymethylfurfural and Ethylene for the Production of Renewable p-Xylene. *CheM*, **2018**, 4, 2212-2227	16.2	34
35	Highly Selective CeNiO Catalysts for Efficient Low Temperature Oxidative Dehydrogenation of Propane. *Catalysis Letters*, **2009**, 130, 350-354	2.8	34
34	Ring-Opening Transformation of 5-Hydroxymethylfurfural Using a Golden Single-Atomic-Site Palladium Catalyst. *ACS Catalysis*, **2019**, 9, 6212-6222	13.1	31
33	Promoted hydrogen generation from formic acid with amines using Au/ZrO2 catalyst. *International Journal of Hydrogen Energy*, **2016**, 41, 21193-21202	6.7	31
32	Efficient and exceptionally selective semireduction of alkynes using a supported gold catalyst under a CO atmosphere. *Chemical Communications*, **2014**, 50, 5626-8	5.8	30
31	Enhanced Activity of Spinel-type Ga2O3–Al2O3 Mixed Oxide for the Dehydrogenation of Propane in the Presence of CO2. *Catalysis Letters*, **2008**, 124, 369-375	2.8	30
30	Chromium Supported on Mesocellular Silica Foam (MCF) for Oxidative Dehydrogenation of Propane. *Catalysis Letters*, **2006**, 106, 145-152	2.8	30
29	Mesostructured CeO2 as an Effective Catalyst for Styrene Synthesis by Oxidative Dehydrogenation of Ethylbenzene. *Catalysis Letters*, **2009**, 133, 307-313	2.8	29
28	Direct Synthesis of Pyrroles via Heterogeneous Catalytic Condensation of Anilines with Bioderived Furans. *ACS Catalysis*, **2017**, 7, 959-964	13.1	24
27	Efficient catalytic hydrogenolysis of glycerol using formic acid as hydrogen source. *Chinese Journal of Catalysis*, **2013**, 34, 2066-2074	11.3	24
26	Heterogeneous Gold-Catalyzed Selective Semireduction of Alkynes using Formic Acid as Hydrogen Source. *Advanced Synthesis and Catalysis*, **2016**, 358, 1410-1416	5.6	23

25	Aluminum Containing MCF Silica as Highly Efficient Solid Acid Catalyst for Alcohol Esterification. *Catalysis Letters*, **2008**, 125, 62-68	2.8	22
24	Direct conversion of CO and HO into liquid fuels under mild conditions. *Nature Communications*, **2019**, 10, 1389	17.4	19
23	Interface synergy between IrOx and H-ZSM-5 in selective C□O hydrogenolysis of glycerol toward 1,3-propanediol. *Journal of Catalysis*, **2019**, 375, 339-350	7.3	19
22	Gold supported on titania for specific monohydrogenation of dinitroaromatics in the liquid phase. *Green Chemistry*, **2014**, 16, 4162	10	19
21	Single-Crystal-like Titania Mesocages. *Angewandte Chemie*, **2011**, 123, 1137-1140	3.6	18
20	The role of iodide promoter in selective oxidation of methanol to formaldehyde. *Catalysis Letters*, **1999**, 63, 49-57	2.8	16
19	A Density Functional Theory Study on the Adsorption of Chlorobenzene on the Si(111)-7 □7 Surface. *Journal of Physical Chemistry B*, **2004**, 108, 14049-14055	3.4	15
18	Novel sol□gel-derived Ag/SiO2□Al2O3 catalysts for highly selective oxidation of methanol to formaldehyde. *Catalysis Letters*, **2000**, 64, 37-40	2.8	13
17	Novel Highly Active Ag□SiO2□MgO Catalysts Used for Direct Dehydrogenation of Methanol to Anhydrous Formaldehyde. *Catalysis Letters*, **2003**, 85, 81-85	2.8	11
16	In situ Raman studies on the interaction of oxygen and methanol with an iodine-modified electrolytic silver catalyst. *Journal of Raman Spectroscopy*, **2002**, 33, 318-324	2.3	10
15	Direct dehydrogenation of methanol to formaldehyde over pre-treated polycrystalline silver catalyst. *Catalysis Letters*, **2005**, 99, 83-87	2.8	10
14	Synthesis and characterization of thermally stable mesostructured sulfated zirconia by a novel sulfate-assisted alcohothermal route. *Catalysis Letters*, **2005**, 99, 73-78	2.8	9
13	Highly Chemoselective Reduction of Nitroarenes Using a Titania-Supported Platinum-Nanoparticle Catalyst under a CO Atmosphere. *Chinese Journal of Chemistry*, **2017**, 35, 591-595	4.9	7
12	The Catalytic Use of Supported Gold Nanoparticles for Styrene Synthesis Via Oxidative Dehydrogenation of Ethylbenzene. *Catalysis Letters*, **2011**, 141, 198-206	2.8	7
11	An efficient noble-metal-free supported copper catalyst for selective nitrocyclohexane hydrogenation to cyclohexanone oxime. *Chemical Communications*, **2017**, 53, 2930-2933	5.8	6
10	A green process for O-heterocyclization of cycloocta-1,5-diene by peroxotungstic species with aqueous H2O2. *Green Chemistry*, **2007**, 9, 878	10	5
9	Total hydrogenation of bio-derived furans over supported Ru subnanoclusters prepared via amino acid-assisted deposition. *Green Chemistry*, **2020**, 22, 850-859	10	4
8	Direct production of hydrogen peroxide from CO, O2, and H2O over a novel alumina-supported Cu catalyst. *New Journal of Chemistry*, **2004**, 28, 1431	3.6	3

7	Direct and Efficient Synthesis of Clean H2O2 from CO-Assisted Aqueous O2 Reduction. *ACS Catalysis*, **2020**, 10, 13993-14005	13.1	2
6	Novel Flower-Like Ag-SiO2-MgO-Al2O3 Material: Preparation, Characterization and Catalytic Application in Methanol Dehydrogenation. *Chinese Journal of Chemistry*, **2008**, 26, 1045-1051	4.9	1
5	Evidence for Dangling Bond Mediated Dimerization of Furan on the Silicon (111)-(7□) Surface. *Angewandte Chemie*, **2000**, 112, 2852-2855	3.6	1
4	Exploiting quasi-one-dimensional confinement for proficient hydrogen production from formic acid at room temperature. *Journal of Energy Chemistry*, **2020**, 49, 205-213	12	1
3	Towards More Sustainable Chemical Synthesis, Using Formic Acid as a Renewable Feedstock **2017**, 283-306		
2	A novel non-phosgene process for the synthesis of methyl N-phenyl carbamate from methanol and phenylurea: Effect of solvent and catalyst. *Chinese Journal of Chemistry*, **2010**, 22, 782-786	4.9	
1	The nonisothermal decomposition kinetics of copper(II) complexes with phthalanilic acids and amino acids. *International Journal of Chemical Kinetics*, **2003**, 35, 623-628	1.4	