He-Yong He

List of Publications by Year in Descending Order

97 papers	3,330 citations	30 h-index	55 g-index
100 ext. papers	3,771 ext. citations	6.7 avg, IF	5.16 L-index

#	Paper	IF	Citations
97	Determination of acid structures on the surface of sulfated monoclinic and tetragonal zirconia through experimental and theoretical approaches. *Catalysis Science and Technology*, **2022**, 12, 596-605	5.5	1
96	Tuning Metal□Support Interactions on Ni/Al2O3 Catalysts to Improve Catalytic Activity and Stability for Dry Reforming of Methane. *Processes*, **2021**, 9, 706	2.9	14
95	Effect of Adsorbed Water Molecules on the Surface Acidity of Niobium and Tantalum Oxides Studied by MAS NMR. *Journal of Physical Chemistry C*, **2021**, 125, 9330-9341	3.8	1
94	Insights into the Key Factor of Zeolite Morphology on the Selective Conversion of Syngas to Light Aromatics over a Cr2O3/ZSM-5 Catalyst. *ACS Catalysis*, **2020**, 10, 15227-15237	13.1	11
93	A study on the acidity of sulfated CuO layers grown by surface reconstruction of Cu2O with specific exposed facets. *Catalysis Science and Technology*, **2020**, 10, 3985-3993	5.5	3
92	Stabilisation of high-valent Cu in a Keggin-type polyoxometalate. *Chemical Communications*, **2020**, 56, 2324-2327	5.8	2
91	Dehydration of sugars to 5-hydroxymethylfurfural and non-stoichiometric formic and levulinic acids over mesoporous Ta and Ta-W oxide solid acid catalysts. *Chinese Journal of Catalysis*, **2020**, 41, 1248-1260	11.3	11
90	HPMoO Immobilized on Amine Functionalized SBA-15 as a Catalyst for Aldose Epimerization. *Materials*, **2020**, 13,	3.5	1
89	Direct and Efficient Synthesis of Clean H2O2 from CO-Assisted Aqueous O2 Reduction. *ACS Catalysis*, **2020**, 10, 13993-14005	13.1	2
88	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
87	Direct Synthesis of in-Situ Chirally Modified Palladium Nanocrystals without Capping Agents and Their Application in Heterogeneous Enantioselective Hydrogenations. *ACS Catalysis*, **2019**, 9, 6100-6110	13.1	5
86	Ring-Opening Transformation of 5-Hydroxymethylfurfural Using a Golden Single-Atomic-Site Palladium Catalyst. *ACS Catalysis*, **2019**, 9, 6212-6222	13.1	31
85	Facile Synthesis of P25@Pd Core-Shell Catalyst with Ultrathin Pd Shell and Improved Catalytic Performance in Heterogeneous Enantioselective Hydrogenation of Acetophenone. *Catalysts*, **2019**, 9, 513	4	4
84	Morphology-Dependent Catalytic Activity of Ru/CeO□n Dry Reforming of Methane. *Molecules*, **2019**, 24,	4.8	14
83	Study of Oxygen Vacancies on Different Facets of Anatase TiO2. *Chinese Journal of Chemistry*, **2019**, 37, 922-928	4.9	11
82	The Effects of Exposed Specific Facets and Sulfation on the Surface Acidity of Cu O Solids. *Chemistry - A European Journal*, **2019**, 25, 14771-14774	4.8	5
81	Construction of g-C□N□/mNbO□ Composites with Enhanced Visible Light Photocatalytic Activity. *Nanomaterials*, **2018**, 8,	5.4	8

80	Toward an Integrated Conversion of 5-Hydroxymethylfurfural and Ethylene for the Production of Renewable p-Xylene. *CheM*, **2018**, 4, 2212-2227	16.2	34
79	Ceria-Zirconia/Zeolite Bifunctional Catalyst for Highly Selective Conversion of Syngas into Aromatics. *ChemCatChem*, **2018**, 10, 4519-4524	5.2	42
78	Cerium promoted V-g-CN as highly efficient heterogeneous catalysts for the direct benzene hydroxylation. *Royal Society Open Science*, **2018**, 5, 180371	3.3	8
77	Simultaneous Characterization of Solid Acidity and Basicity of Metal Oxide Catalysts via the Solid-State NMR Technique. *Journal of Physical Chemistry C*, **2018**, 122, 24094-24102	3.8	16
76	The enantioselective hydrogenation of acetophenone over Pd concave tetrahedron nanocrystals affected by the residual adsorbed capping agent polyvinylpyrrolidone (PVP). *Journal of Catalysis*, **2018**, 367, 244-251	7.3	16
75	Wettability-Driven Palladium Catalysis for Enhanced Dehydrogenative Coupling of Organosilanes. *ACS Catalysis*, **2017**, 7, 1720-1727	13.1	41
74	An efficient noble-metal-free supported copper catalyst for selective nitrocyclohexane hydrogenation to cyclohexanone oxime. *Chemical Communications*, **2017**, 53, 2930-2933	5.8	6
73	Direct Synthesis of Pyrroles via Heterogeneous Catalytic Condensation of Anilines with Bioderived Furans. *ACS Catalysis*, **2017**, 7, 959-964	13.1	24
72	Mapping surface-modified titania nanoparticles with implications for activity and facet control. *Nature Communications*, **2017**, 8, 675	17.4	48
71	Versatile CO-assisted direct reductive amination of 5-hydroxymethylfurfural catalyzed by a supported gold catalyst. *Green Chemistry*, **2017**, 19, 3880-3887	10	42
70	Effect of Brønsted/Lewis Acid Ratio on Conversion of Sugars to 5-Hydroxymethylfurfural over Mesoporous Nb and Nb-W Oxides. *Chinese Journal of Chemistry*, **2017**, 35, 1529-1539	4.9	17
69	Inside Cover: Effect of Brønsted/Lewis Acid Ratio on Conversion of Sugars to 5-Hydroxymethylfurfural over Mesoporous Nb and Nb-W Oxides (Chin. J. Chem. 10/2017). *Chinese Journal of Chemistry*, **2017**, 35, 1480-1480	4.9	
68	Probe-Molecule-Assisted NMR Spectroscopy: A Comparison with Photoluminescence and Electron Paramagnetic Resonance Spectroscopy as a Characterization Tool in Facet-Specific Photocatalysis. *ChemCatChem*, **2017**, 9, 155-160	5.2	17
67	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
66	Trimethylphosphine-Assisted Surface Fingerprinting of Metal Oxide Nanoparticle by (31)P Solid-State NMR: A Zinc Oxide Case Study. *Journal of the American Chemical Society*, **2016**, 138, 2225-34	16.4	64
65	Direct reductive amination of aldehydes with nitroarenes using bio-renewable formic acid as a hydrogen source. *Green Chemistry*, **2016**, 18, 2507-2513	10	62
64	Towards quantitative and scalable transformation of furfural to cyclopentanone with supported gold catalysts. *Green Chemistry*, **2016**, 18, 2155-2164	10	93
63	Vanadium supported on graphitic carbon nitride as a heterogeneous catalyst for the direct oxidation of benzene to phenol. *Chinese Journal of Catalysis*, **2016**, 37, 2003-2008	11.3	16

62	Formation of palladium concave nanocrystals via auto-catalytic tip overgrowth by interplay of reduction kinetics, concentration gradient and surface diffusion. *Nanoscale*, **2016**, 8, 8673-80	7.7	14
61	Direct hydroxylation of benzene to phenol using H2O2 as an oxidant over vanadium-containing nitrogen doped mesoporous carbon catalysts. *RSC Advances*, **2016**, 6, 87656-87664	3.7	19
60	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
59	Promotional effect of cerium on nickel-containing mesoporous silica for carbon dioxide reforming of methane. *Science China Chemistry*, **2015**, 58, 148-155	7.9	12
58	Heterogeneous Catalysis of Polyoxometalate Based Organic-Inorganic Hybrids. *Materials*, **2015**, 8, 1545-1567	3.5	60
57	Facet-dependent acidic and catalytic properties of sulfated titania solid superacids. *Chemical Communications*, **2015**, 51, 14219-22	5.8	33
56	Three Polyoxometalate-Based Coordination Polymers Constructed from the Same Dimetallic Cyclic Building Block. *European Journal of Inorganic Chemistry*, **2015**, 2015, 488-493	2.3	2
55	Preparation of free-standing mesoporous metal catalysts and their applications in heterogeneous enantioselective hydrogenations. *Catalysis Science and Technology*, **2015**, 5, 638-649	5.5	5
54	Gold-Catalyzed Reductive Transformation of Nitro Compounds Using Formic Acid: Mild, Efficient, and Versatile. *ChemSusChem*, **2015**, 8, 3029-35	8.3	77
53	Direct synthesis of hierarchically porous TS-1 through a solvent-evaporation route and its application as an oxidation catalyst. *Applied Organometallic Chemistry*, **2014**, 28, 239-243	3.1	11
52	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
51	Gold supported on titania for specific monohydrogenation of dinitroaromatics in the liquid phase. *Green Chemistry*, **2014**, 16, 4162	10	19
50	Four organic–inorganic compounds based on polyoxometalates: crystal structures and catalytic epoxidation of styrene. *Journal of Coordination Chemistry*, **2014**, 67, 506-521	1.6	6
49	Synthesis of Cs2.5H0.5PW12O40/TiO2 Nanocomposites with Dominant TiO2 {001} Facets and Related Photocatalytic Properties. *Chinese Journal of Chemistry*, **2014**, 32, 1151-1156	4.9	4
48	Highly Dispersed Nickel-Containing Mesoporous Silica with Superior Stability in Carbon Dioxide Reforming of Methane: The Effect of Anchoring. *Materials*, **2014**, 7, 2340-2355	3.5	44
47	Tuning enantioselectivity in asymmetric hydrogenation of acetophenone and its derivatives via confinement effect over free-standing mesoporous palladium network catalysts. *Journal of Catalysis*, **2014**, 313, 113-126	7.3	20
46	Characterization and catalytic behaviors of methylamine modified FAU zeolites. *Journal of Porous Materials*, **2013**, 20, 1271-1281	2.4	4
45	Controllable preparation and structures of two zinc phosphonocarboxylate frameworks with MER and RHO zeolitic topologies. *CrystEngComm*, **2013**, 15, 7056	3.3	11

44	Reforming of CH4 with CO2 over Co/MgAl oxide catalyst. *Chinese Chemical Letters*, **2013**, 24, 777-779	8.1	6
43	Copper-based catalysts for the efficient conversion of carbohydrate biomass into valerolactone in the absence of externally added hydrogen. *Energy and Environmental Science*, **2013**, 6, 3308	35.4	148
42	An aluminum promoted cesium salt of 12-tungstophosphoric acid: a catalyst for butane isomerization. *Catalysis Science and Technology*, **2013**, 3, 2113	5.5	6
41	Three Polymeric Polyoxometalate Compounds Based on Twisted Poly-Keggin Chains. *European Journal of Inorganic Chemistry*, **2013**, 2013, 1821-1826	2.3	7
40	Tunable copper-catalyzed chemoselective hydrogenolysis of biomass-derived valerolactone into 1,4-pentanediol or 2-methyltetrahydrofuran. *Green Chemistry*, **2012**, 14, 935	10	159
39	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
38	Self-assembly of Mesoporous NiP Nanosphere Catalyst with Uniform Size and Enhanced Catalytic Activity in Nitrobenzene Hydrogenation. *Topics in Catalysis*, **2012**, 55, 1022-1031	2.3	15
37	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
36	Shape-Dependent Acidity and Photocatalytic Activity of Nb2O5 Nanocrystals with an Active TT (001) Surface. *Angewandte Chemie*, **2012**, 124, 3912-3915	3.6	12
35	Synthesis, Structure, and Properties of Two Supramolecular Compounds Based on Silicotungstic Acid and Transition Metal(II) Coordinated Isonicotinic Acid. *Chinese Journal of Chemistry*, **2012**, 30, 759-764	4.9	4
34	Three POM-based coordination polymers: hydrothermal synthesis, characterization, and catalytic activity in epoxidation of styrene. *CrystEngComm*, **2011**, 13, 7143	3.3	27
33	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
32	Mixed-Addenda Lindqvist-Type Polyoxoanion [V2W4O19]4Supported Copper Complexes. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2011**, 637, 472-477	1.3	9
31	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
30	Honeycomb nanoscale-porous material constructed from copper complexes and mixed-addenda Lindqvist-type polyoxoanions. *CrystEngComm*, **2010**, 12, 3522	3.3	4
29	Crystalline three-dimensional cubic mesoporous niobium oxide. *CrystEngComm*, **2010**, 12, 344-347	3.3	16
28	Preparation and Characterization of Divanadium Pentoxide Nanowires inside SBA-15 Channels. *Chinese Journal of Chemistry*, **2010**, 22, 33-37	4.9	8
27	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	

26	Catalytic Performances of Binder-free ZSM-5 Catalysts for Dehydration of Crude Methanol to Dimethyl Ether. *Chinese Journal of Chemistry*, **2010**, 28, 183-188	4.9	8
25	Reforming of CH4 with CO2 over Rh/H-Beta: Effect of Rhodium Dispersion on the Catalytic Activity and Coke Resistance. *Chinese Journal of Chemistry*, **2010**, 28, 1864-1870	4.9	16
24	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
23	Characterization and Catalytic Activities of Al2O3-Promoted Sulfated Tin Oxides. *Catalysis Letters*, **2009**, 133, 119-124	2.8	12
22	Mesostructured CeO2 as an Effective Catalyst for Styrene Synthesis by Oxidative Dehydrogenation of Ethylbenzene. *Catalysis Letters*, **2009**, 133, 307-313	2.8	29
21	Synthesis and Characterization of V-HMS Employed for Catalytic Hydroxylation of Benzene. *Catalysis Letters*, **2009**, 131, 458-462	2.8	19
20	Ordered Crystalline Mesoporous Oxides as Catalysts for CO Oxidation. *Catalysis Letters*, **2009**, 131, 146-154	2.8	137
19	Highly Selective CeNiO Catalysts for Efficient Low Temperature Oxidative Dehydrogenation of Propane. *Catalysis Letters*, **2009**, 130, 350-354	2.8	34
18	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
17	Mesoporous Monocrystalline TiO2 and Its Solid-State Electrochemical Properties. *Chemistry of Materials*, **2009**, 21, 2540-2546	9.6	107
16	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
15	Effect of Calcination Temperature on Structure and Properties of SnNb2O5/Al2O3 Catalyst for Ethylene Oxide Hydration. *Catalysis Letters*, **2008**, 124, 85-90	2.8	5
14	Enhanced Activity of Spinel-type Ga2O3Al2O3 Mixed Oxide for the Dehydrogenation of Propane in the Presence of CO2. *Catalysis Letters*, **2008**, 124, 369-375	2.8	30
13	Aluminum Containing MCF Silica as Highly Efficient Solid Acid Catalyst for Alcohol Esterification. *Catalysis Letters*, **2008**, 125, 62-68	2.8	22
12	Chromium Supported on Mesocellular Silica Foam (MCF) for Oxidative Dehydrogenation of Propane. *Catalysis Letters*, **2006**, 106, 145-152	2.8	30
11	Amorphous Ni-B hollow spheres synthesized by controlled organization of Ni-B nanoparticles over PS beads via surface seeding/electroless plating. *New Journal of Chemistry*, **2005**, 29, 266	3.6	28
10	Preparation of MoO3-V2O5 Nanowires with Controllable Mo/V Ratios inside SBA-15 Channels Using a Chemical Approach with Heteropoly Acid. *Chinese Journal of Chemistry*, **2005**, 23, 32-36	4.9	7
9	In situ 13C MAS NMR Study on the Mechanism of Butane Isomerization Over Catalysts with Different Acid Strength. *Topics in Catalysis*, **2005**, 35, 141-153	2.3	8

8	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
7	Selective catalytic hydration of ethylene oxide over niobium oxide supported on □alumina. *Applied Catalysis A: General*, **2004**, 272, 305-310	5.1	20
6	A guest/host material of LiCl/H-STI (stilbite) zeolite assembly: preparation, characterization and humidity-sensitive properties. *Journal of Materials Chemistry*, **2004**, 14, 2405		15
5	Mesoporous VOx□bOx/SBA-15 synthesized by a two-stage grafting method and its characterization. *Chemical Communications*, **2001**, 2552-2553	5.8	16
4	Synthesis and characterization of the novel molecular sieve CFSAPO-1. *Journal of Inclusion Phenomena*, **1987**, 5, 591-599		8
3	Single crystal growth, morphology, and structure of ZSM-39 and its variation CF-4. *Journal of Inclusion Phenomena*, **1987**, 5, 355-362		16
2	Synthesis and characterization of a novel crystalline AlPO4 molecular sieve, CFAP-7. *Journal of Inclusion Phenomena*, **1987**, 5, 363-372		1
1	Improving Catalytic Stability and Coke Resistance of Ni/Al2O3 Catalysts with Ce Promoter for Relatively Low Temperature Dry Reforming of Methane Reaction. *Chemical Research in Chinese Universities*,1	2.2	1