

# He-Yong He

## List of Publications by Citations

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97  
papers

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55  
g-index

100  
ext. papers

3,771  
ext. citations

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L-index

#	Paper	IF	Citations
97	Efficient subnanometric gold-catalyzed hydrogen generation via formic acid decomposition under ambient conditions. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8926-33	16.4	342
96	Dehydrogenation of Formic Acid at Room Temperature: Boosting Palladium Nanoparticle Efficiency by Coupling with Pyridinic-Nitrogen-Doped Carbon. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11849-53	16.4	213
95	Graphite oxide as an efficient and durable metal-free catalyst for aerobic oxidative coupling of amines to imines. <i>Green Chemistry</i> , <b>2012</b> , 14, 930	10	200
94	Efficient and selective room-temperature gold-catalyzed reduction of nitro compounds with CO and H <sub>2</sub> O as the hydrogen source. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9538-41	16.4	197
93	Tunable copper-catalyzed chemoselective hydrogenolysis of biomass-derived $\gamma$ -valerolactone into 1,4-pentanediol or 2-methyltetrahydrofuran. <i>Green Chemistry</i> , <b>2012</b> , 14, 935	10	159
92	Copper-based catalysts for the efficient conversion of carbohydrate biomass into $\gamma$ -valerolactone in the absence of externally added hydrogen. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3308	35.4	148
91	Ordered Crystalline Mesoporous Oxides as Catalysts for CO Oxidation. <i>Catalysis Letters</i> , <b>2009</b> , 131, 146-154	15.4	137
90	Mesoporous Monocrystalline TiO <sub>2</sub> and Its Solid-State Electrochemical Properties. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2540-2546	9.6	107
89	Towards quantitative and scalable transformation of furfural to cyclopentanone with supported gold catalysts. <i>Green Chemistry</i> , <b>2016</b> , 18, 2155-2164	10	93
88	A green and efficient oxidation of alcohols by supported gold catalysts using aqueous H <sub>2</sub> O <sub>2</sub> under organic solvent-free conditions. <i>Green Chemistry</i> , <b>2009</b> , 11, 756	10	86
87	Gold supported on mesostructured ceria as an efficient catalyst for the chemoselective hydrogenation of carbonyl compounds in neat water. <i>Green Chemistry</i> , <b>2011</b> , 13, 602	10	84
86	Gold-Catalyzed Reductive Transformation of Nitro Compounds Using Formic Acid: Mild, Efficient, and Versatile. <i>ChemSusChem</i> , <b>2015</b> , 8, 3029-35	8.3	77
85	Trimethylphosphine-Assisted Surface Fingerprinting of Metal Oxide Nanoparticle by <sup>31</sup> P Solid-State NMR: A Zinc Oxide Case Study. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 2225-34	16.4	64
84	Direct reductive amination of aldehydes with nitroarenes using bio-renewable formic acid as a hydrogen source. <i>Green Chemistry</i> , <b>2016</b> , 18, 2507-2513	10	62
83	Heterogeneous Catalysis of Polyoxometalate Based Organic-Inorganic Hybrids. <i>Materials</i> , <b>2015</b> , 8, 1545-1567	15.7	60
82	A novel gold-catalyzed chemoselective reduction of $\alpha,\beta$ -unsaturated aldehydes using CO and H <sub>2</sub> O as the hydrogen source. <i>Chemical Communications</i> , <b>2010</b> , 46, 1553-5	5.8	56
81	Mapping surface-modified titania nanoparticles with implications for activity and facet control. <i>Nature Communications</i> , <b>2017</b> , 8, 675	17.4	48

80	A highly efficient Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> catalyst via gel-coprecipitation of oxalate precursors for low-temperature steam reforming of methanol. <i>Catalysis Letters</i> , <b>2005</b> , 102, 183-190	2.8	45
79	Highly Dispersed Nickel-Containing Mesoporous Silica with Superior Stability in Carbon Dioxide Reforming of Methane: The Effect of Anchoring. <i>Materials</i> , <b>2014</b> , 7, 2340-2355	3.5	44
78	Ceria-Zirconia/Zeolite Bifunctional Catalyst for Highly Selective Conversion of Syngas into Aromatics. <i>ChemCatChem</i> , <b>2018</b> , 10, 4519-4524	5.2	42
77	Versatile CO-assisted direct reductive amination of 5-hydroxymethylfurfural catalyzed by a supported gold catalyst. <i>Green Chemistry</i> , <b>2017</b> , 19, 3880-3887	10	42
76	Wettability-Driven Palladium Catalysis for Enhanced Dehydrogenative Coupling of Organosilanes. <i>ACS Catalysis</i> , <b>2017</b> , 7, 1720-1727	13.1	41
75	Waste-free Soft Reactive Grinding Synthesis of High-Surface-Area CopperManganese Spinel Oxide Catalysts Highly Effective for Methanol Steam Reforming. <i>Catalysis Letters</i> , <b>2008</b> , 121, 144-150	2.8	38
74	Dehydrogenation of Formic Acid at Room Temperature: Boosting Palladium Nanoparticle Efficiency by Coupling with Pyridinic-Nitrogen-Doped Carbon. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12028-12032	3.6	36
73	Toward an Integrated Conversion of 5-Hydroxymethylfurfural and Ethylene for the Production of Renewable p-Xylene. <i>CheM</i> , <b>2018</b> , 4, 2212-2227	16.2	34
72	Highly Selective CeNiO Catalysts for Efficient Low Temperature Oxidative Dehydrogenation of Propane. <i>Catalysis Letters</i> , <b>2009</b> , 130, 350-354	2.8	34
71	Facet-dependent acidic and catalytic properties of sulfated titania solid superacids. <i>Chemical Communications</i> , <b>2015</b> , 51, 14219-22	5.8	33
70	Ring-Opening Transformation of 5-Hydroxymethylfurfural Using a Golden Single-Atomic-Site Palladium Catalyst. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6212-6222	13.1	31
69	Efficient and exceptionally selective semireduction of alkynes using a supported gold catalyst under a CO atmosphere. <i>Chemical Communications</i> , <b>2014</b> , 50, 5626-8	5.8	30
68	Enhanced Activity of Spinel-type Ga <sub>2</sub> O <sub>3</sub> Al <sub>2</sub> O <sub>3</sub> Mixed Oxide for the Dehydrogenation of Propane in the Presence of CO <sub>2</sub> . <i>Catalysis Letters</i> , <b>2008</b> , 124, 369-375	2.8	30
67	Chromium Supported on Mesocellular Silica Foam (MCF) for Oxidative Dehydrogenation of Propane. <i>Catalysis Letters</i> , <b>2006</b> , 106, 145-152	2.8	30
66	Mesostructured CeO <sub>2</sub> as an Effective Catalyst for Styrene Synthesis by Oxidative Dehydrogenation of Ethylbenzene. <i>Catalysis Letters</i> , <b>2009</b> , 133, 307-313	2.8	29
65	Amorphous Ni-B hollow spheres synthesized by controlled organization of Ni-B nanoparticles over PS beads via surface seeding/electroless plating. <i>New Journal of Chemistry</i> , <b>2005</b> , 29, 266	3.6	28
64	Three POM-based coordination polymers: hydrothermal synthesis, characterization, and catalytic activity in epoxidation of styrene. <i>CrystEngComm</i> , <b>2011</b> , 13, 7143	3.3	27
63	Direct Synthesis of Pyrroles via Heterogeneous Catalytic Condensation of Anilines with Bioderived Furans. <i>ACS Catalysis</i> , <b>2017</b> , 7, 959-964	13.1	24

62	Aluminum Containing MCF Silica as Highly Efficient Solid Acid Catalyst for Alcohol Esterification. <i>Catalysis Letters</i> , <b>2008</b> , 125, 62-68	2.8	22
61	Tuning enantioselectivity in asymmetric hydrogenation of acetophenone and its derivatives via confinement effect over free-standing mesoporous palladium network catalysts. <i>Journal of Catalysis</i> , <b>2014</b> , 313, 113-126	7.3	20
60	Selective catalytic hydration of ethylene oxide over niobium oxide supported on alumina. <i>Applied Catalysis A: General</i> , <b>2004</b> , 272, 305-310	5.1	20
59	Gold supported on titania for specific monohydrogenation of dinitroaromatics in the liquid phase. <i>Green Chemistry</i> , <b>2014</b> , 16, 4162	10	19
58	Synthesis and Characterization of V-HMS Employed for Catalytic Hydroxylation of Benzene. <i>Catalysis Letters</i> , <b>2009</b> , 131, 458-462	2.8	19
57	Direct hydroxylation of benzene to phenol using H <sub>2</sub> O <sub>2</sub> as an oxidant over vanadium-containing nitrogen doped mesoporous carbon catalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 87656-87664	3.7	19
56	Effect of Brønsted/Lewis Acid Ratio on Conversion of Sugars to 5-Hydroxymethylfurfural over Mesoporous Nb and Nb-W Oxides. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 1529-1539	4.9	17
55	Probe-Molecule-Assisted NMR Spectroscopy: A Comparison with Photoluminescence and Electron Paramagnetic Resonance Spectroscopy as a Characterization Tool in Facet-Specific Photocatalysis. <i>ChemCatChem</i> , <b>2017</b> , 9, 155-160	5.2	17
54	Crystalline three-dimensional cubic mesoporous niobium oxide. <i>CrystEngComm</i> , <b>2010</b> , 12, 344-347	3.3	16
53	Reforming of CH <sub>4</sub> with CO <sub>2</sub> over Rh/H-Beta: Effect of Rhodium Dispersion on the Catalytic Activity and Coke Resistance. <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 28, 1864-1870	4.9	16
52	Mesoporous VOx/SBA-15 synthesized by a two-stage grafting method and its characterization. <i>Chemical Communications</i> , <b>2001</b> , 2552-2553	5.8	16
51	Single crystal growth, morphology, and structure of ZSM-39 and its variation CF-4. <i>Journal of Inclusion Phenomena</i> , <b>1987</b> , 5, 355-362		16
50	Vanadium supported on graphitic carbon nitride as a heterogeneous catalyst for the direct oxidation of benzene to phenol. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 2003-2008	11.3	16
49	Simultaneous Characterization of Solid Acidity and Basicity of Metal Oxide Catalysts via the Solid-State NMR Technique. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 24094-24102	3.8	16
48	The enantioselective hydrogenation of acetophenone over Pd concave tetrahedron nanocrystals affected by the residual adsorbed capping agent polyvinylpyrrolidone (PVP). <i>Journal of Catalysis</i> , <b>2018</b> , 367, 244-251	7.3	16
47	Self-assembly of Mesoporous Ni Nanosphere Catalyst with Uniform Size and Enhanced Catalytic Activity in Nitrobenzene Hydrogenation. <i>Topics in Catalysis</i> , <b>2012</b> , 55, 1022-1031	2.3	15
46	A guest/host material of LiCl/H-STI (stilbite) zeolite assembly: preparation, characterization and humidity-sensitive properties. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2405		15
45	Morphology-Dependent Catalytic Activity of Ru/CeO <sub>2</sub> in Dry Reforming of Methane. <i>Molecules</i> , <b>2019</b> , 24,	4.8	14

44	Tuning Metal-Support Interactions on Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts to Improve Catalytic Activity and Stability for Dry Reforming of Methane. <i>Processes</i> , <b>2021</b> , 9, 706	2.9	14
43	Formation of palladium concave nanocrystals via auto-catalytic tip overgrowth by interplay of reduction kinetics, concentration gradient and surface diffusion. <i>Nanoscale</i> , <b>2016</b> , 8, 8673-80	7.7	14
42	Promotional effect of cerium on nickel-containing mesoporous silica for carbon dioxide reforming of methane. <i>Science China Chemistry</i> , <b>2015</b> , 58, 148-155	7.9	12
41	Shape-Dependent Acidity and Photocatalytic Activity of Nb <sub>2</sub> O <sub>5</sub> Nanocrystals with an Active (110) Surface. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 3912-3915	3.6	12
40	Characterization and Catalytic Activities of Al <sub>2</sub> O <sub>3</sub> -Promoted Sulfated Tin Oxides. <i>Catalysis Letters</i> , <b>2009</b> , 133, 119-124	2.8	12
39	Insights into the Key Factor of Zeolite Morphology on the Selective Conversion of Syngas to Light Aromatics over a Cr <sub>2</sub> O <sub>3</sub> /ZSM-5 Catalyst. <i>ACS Catalysis</i> , <b>2020</b> , 10, 15227-15237	13.1	11
38	Dehydration of sugars to 5-hydroxymethylfurfural and non-stoichiometric formic and levulinic acids over mesoporous Ta and Ta-W oxide solid acid catalysts. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 1248-1260	11.3	11
37	Study of Oxygen Vacancies on Different Facets of Anatase TiO <sub>2</sub> . <i>Chinese Journal of Chemistry</i> , <b>2019</b> , 37, 922-928	4.9	11
36	Direct synthesis of hierarchically porous TS-1 through a solvent-evaporation route and its application as an oxidation catalyst. <i>Applied Organometallic Chemistry</i> , <b>2014</b> , 28, 239-243	3.1	11
35	Controllable preparation and structures of two zinc phosphonocarboxylate frameworks with MER and RHO zeolitic topologies. <i>CrystEngComm</i> , <b>2013</b> , 15, 7056	3.3	11
34	Mixed-Addenda Lindqvist-Type Polyoxoanion [V <sub>2</sub> W <sub>4</sub> O <sub>19</sub> ] <sub>4</sub> -Supported Copper Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2011</b> , 637, 472-477	1.3	9
33	Construction of g-C <sub>3</sub> N <sub>4</sub> /Nb <sub>2</sub> O <sub>5</sub> Composites with Enhanced Visible Light Photocatalytic Activity. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	8
32	Preparation and Characterization of Divanadium Pentoxide Nanowires inside SBA-15 Channels. <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 22, 33-37	4.9	8
31	Catalytic Performances of Binder-free ZSM-5 Catalysts for Dehydration of Crude Methanol to Dimethyl Ether. <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 28, 183-188	4.9	8
30	In situ <sup>13</sup> C MAS NMR Study on the Mechanism of Butane Isomerization Over Catalysts with Different Acid Strength. <i>Topics in Catalysis</i> , <b>2005</b> , 35, 141-153	2.3	8
29	Synthesis and characterization of the novel molecular sieve CFSAPO-1. <i>Journal of Inclusion Phenomena</i> , <b>1987</b> , 5, 591-599		8
28	Cerium promoted V-g-CN as highly efficient heterogeneous catalysts for the direct benzene hydroxylation. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180371	3.3	8
27	Three Polymeric Polyoxometalate Compounds Based on Twisted Poly-Keggin Chains. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 1821-1826	2.3	7

26	Preparation of MoO <sub>3</sub> -V <sub>2</sub> O <sub>5</sub> Nanowires with Controllable Mo/V Ratios inside SBA-15 Channels Using a Chemical Approach with Heteropoly Acid. <i>Chinese Journal of Chemistry</i> , <b>2005</b> , 23, 32-36	4.9	7
25	An efficient noble-metal-free supported copper catalyst for selective nitrocyclohexane hydrogenation to cyclohexanone oxime. <i>Chemical Communications</i> , <b>2017</b> , 53, 2930-2933	5.8	6
24	Four organic/inorganic compounds based on polyoxometalates: crystal structures and catalytic epoxidation of styrene. <i>Journal of Coordination Chemistry</i> , <b>2014</b> , 67, 506-521	1.6	6
23	Reforming of CH <sub>4</sub> with CO <sub>2</sub> over Co/Mg/Al oxide catalyst. <i>Chinese Chemical Letters</i> , <b>2013</b> , 24, 777-779	8.1	6
22	An aluminum promoted cesium salt of 12-tungstophosphoric acid: a catalyst for butane isomerization. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 2113	5.5	6
21	Direct Synthesis of in-Situ Chirally Modified Palladium Nanocrystals without Capping Agents and Their Application in Heterogeneous Enantioselective Hydrogenations. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6100-6110 <sup>13.1</sup>	13.1	5
20	Preparation of free-standing mesoporous metal catalysts and their applications in heterogeneous enantioselective hydrogenations. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 638-649	5.5	5
19	The Effects of Exposed Specific Facets and Sulfation on the Surface Acidity of Cu O Solids. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 14771-14774	4.8	5
18	Effect of Calcination Temperature on Structure and Properties of Sn/Nb <sub>2</sub> O <sub>5</sub> /Al <sub>2</sub> O <sub>3</sub> Catalyst for Ethylene Oxide Hydration. <i>Catalysis Letters</i> , <b>2008</b> , 124, 85-90	2.8	5
17	Facile Synthesis of P25@Pd Core-Shell Catalyst with Ultrathin Pd Shell and Improved Catalytic Performance in Heterogeneous Enantioselective Hydrogenation of Acetophenone. <i>Catalysts</i> , <b>2019</b> , 9, 513	4	4
16	Synthesis of Cs <sub>2.5</sub> H <sub>0.5</sub> PW <sub>12</sub> O <sub>40</sub> /TiO <sub>2</sub> Nanocomposites with Dominant TiO <sub>2</sub> {001} Facets and Related Photocatalytic Properties. <i>Chinese Journal of Chemistry</i> , <b>2014</b> , 32, 1151-1156	4.9	4
15	Characterization and catalytic behaviors of methylamine modified FAU zeolites. <i>Journal of Porous Materials</i> , <b>2013</b> , 20, 1271-1281	2.4	4
14	Synthesis, Structure, and Properties of Two Supramolecular Compounds Based on Silicotungstic Acid and Transition Metal(II) Coordinated Isonicotinic Acid. <i>Chinese Journal of Chemistry</i> , <b>2012</b> , 30, 759-764	4.9	4
13	Honeycomb nanoscale-porous material constructed from copper complexes and mixed-addenda Lindqvist-type polyoxoanions. <i>CrystEngComm</i> , <b>2010</b> , 12, 3522	3.3	4
12	A study on the acidity of sulfated CuO layers grown by surface reconstruction of Cu <sub>2</sub> O with specific exposed facets. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 3985-3993	5.5	3
11	Three Polyoxometalate-Based Coordination Polymers Constructed from the Same Dimetallic Cyclic Building Block. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 488-493	2.3	2
10	Stabilisation of high-valent Cu in a Keggin-type polyoxometalate. <i>Chemical Communications</i> , <b>2020</b> , 56, 2324-2327	5.8	2
9	Direct and Efficient Synthesis of Clean H <sub>2</sub> O <sub>2</sub> from CO-Assisted Aqueous O <sub>2</sub> Reduction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13993-14005	13.1	2

8	Synthesis and characterization of a novel crystalline AlPO <sub>4</sub> molecular sieve, CFAP-7. <i>Journal of Inclusion Phenomena</i> , <b>1987</b> , 5, 363-372		1
7	Determination of acid structures on the surface of sulfated monoclinic and tetragonal zirconia through experimental and theoretical approaches. <i>Catalysis Science and Technology</i> , <b>2022</b> , 12, 596-605	5.5	1
6	HPMoO Immobilized on Amine Functionalized SBA-15 as a Catalyst for Aldose Epimerization. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
5	Improving Catalytic Stability and Coke Resistance of Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts with Ce Promoter for Relatively Low Temperature Dry Reforming of Methane Reaction. <i>Chemical Research in Chinese Universities</i> , <sup>1</sup>	2.2	1
4	Effect of Adsorbed Water Molecules on the Surface Acidity of Niobium and Tantalum Oxides Studied by MAS NMR. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 9330-9341	3.8	1
3	Exploiting quasi-one-dimensional confinement for proficient hydrogen production from formic acid at room temperature. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 49, 205-213	12	1
2	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). <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 1480-1480	4.9	
1	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> , <b>2010</b> , 22, 782-786	4.9	