

Huizhen Liu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5650975/huizhen-liu-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

3,849
citations

32
h-index

59
g-index

113
ext. papers

4,975
ext. citations

9.3
avg. IF

5.73
L-index

#	Paper	IF	Citations
108	Selective phenol hydrogenation to cyclohexanone over a dual supported Pd-Lewis acid catalyst. <i>Science</i> , 2009 , 326, 1250-2	33.3	458
107	Highly efficient synthesis of cyclic carbonates from CO ₂ and epoxides over cellulose/KI. <i>Chemical Communications</i> , 2011 , 47, 2131-3	5.8	241
106	Molybdenum-Bismuth Bimetallic Chalcogenide Nanosheets for Highly Efficient Electrocatalytic Reduction of Carbon Dioxide to Methanol. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6771-5	16.4	176
105	Efficient Reduction of CO ₂ into Formic Acid on a Lead or Tin Electrode using an Ionic Liquid Catholyte Mixture. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9012-6	16.4	149
104	Cycloaddition of CO ₂ to epoxides catalyzed by imidazolium-based polymeric ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 1584	10	147
103	Selective electroreduction of carbon dioxide to methanol on copper selenide nanocatalysts. <i>Nature Communications</i> , 2019 , 10, 677	17.4	136
102	Hydrogenolysis of glycerol catalyzed by Ru-Cu bimetallic catalysts supported on clay with the aid of ionic liquids. <i>Green Chemistry</i> , 2009 , 11, 1000	10	108
101	One-pot conversion of CO ₂ and glycerol to value-added products using propylene oxide as the coupling agent. <i>Green Chemistry</i> , 2012 , 14, 1743	10	82
100	Biomass-derived Valerolactone as an efficient solvent and catalyst for the transformation of CO ₂ to formamides. <i>Green Chemistry</i> , 2016 , 18, 3956-3961	10	77
99	Synthesis of ketones from biomass-derived feedstock. <i>Nature Communications</i> , 2017 , 8, 14190	17.4	75
98	Efficient hydrogenolysis of 5-hydroxymethylfurfural to 2,5-dimethylfuran over a cobalt and copper bimetallic catalyst on N-graphene-modified Al ₂ O ₃ . <i>Green Chemistry</i> , 2016 , 18, 6222-6228	10	75
97	Synthesis of liquid fuel via direct hydrogenation of CO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12654-12659	11.5	74
96	Dual-ionic liquid system: an efficient catalyst for chemical fixation of CO ₂ to cyclic carbonates under mild conditions. <i>Green Chemistry</i> , 2018 , 20, 2990-2994	10	73
95	Boosting CO Electroreduction on N,P-Co-doped Carbon Aerogels. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11123-11129	16.4	70
94	Ru/Zn supported on hydroxyapatite as an effective catalyst for partial hydrogenation of benzene. <i>Green Chemistry</i> , 2013 , 15, 152-159	10	67
93	Highly effective photoreduction of CO to CO promoted by integration of CdS with molecular redox catalysts through metal-organic frameworks. <i>Chemical Science</i> , 2018 , 9, 8890-8894	9.4	66
92	The highly selective aerobic oxidation of cyclohexane to cyclohexanone and cyclohexanol over V ₂ O ₅ @TiO ₂ under simulated solar light irradiation. <i>Green Chemistry</i> , 2017 , 19, 311-318	10	63

91	Ambient Reductive Amination of Levulinic Acid to Pyrrolidones over Pt Nanocatalysts on Porous TiO Nanosheets. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4002-4009	16.4	62
90	Highly Efficient Electroreduction of CO to C ₂ + Alcohols on Heterogeneous Dual Active Sites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16459-16464	16.4	61
89	Copper-catalyzed N-formylation of amines with CO ₂ under ambient conditions. <i>RSC Advances</i> , 2016 , 6, 32370-32373	3.7	61
88	Design of a Cu(I)/C-doped boron nitride electrocatalyst for efficient conversion of CO ₂ into acetic acid. <i>Green Chemistry</i> , 2017 , 19, 2086-2091	10	60
87	Synthesis of formamides containing unsaturated groups by N-formylation of amines using CO ₂ with H ₂ . <i>Green Chemistry</i> , 2017 , 19, 196-201	10	57
86	Selectively transform lignin into value-added chemicals. <i>Chinese Chemical Letters</i> , 2019 , 30, 15-24	8.1	57
85	Synthesis of Supported Ultrafine Non-noble Subnanometer-Scale Metal Particles Derived from Metal-Organic Frameworks as Highly Efficient Heterogeneous Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1080-4	16.4	54
84	Selective Utilization of the Methoxy Group in Lignin to Produce Acetic Acid. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14868-14872	16.4	53
83	Hollow Metal-Organic-Framework-Mediated In Situ Architecture of Copper Dendrites for Enhanced CO Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8896-8901	16.4	51
82	Efficient Reduction of CO ₂ into Formic Acid on a Lead or Tin Electrode using an Ionic Liquid Catholyte Mixture. <i>Angewandte Chemie</i> , 2016 , 128, 9158-9162	3.6	49
81	Highly efficient hydrogenation of levulinic acid into 2-methyltetrahydrofuran over Ni ₂ Cu/Al ₂ O ₃ /ZrO ₂ bifunctional catalysts. <i>Green Chemistry</i> , 2019 , 21, 606-613	10	45
80	Highly selective benzene hydrogenation to cyclohexene over supported Ru catalyst without additives. <i>Green Chemistry</i> , 2011 , 13, 1106	10	41
79	Transformation of alcohols to esters promoted by hydrogen bonds using oxygen as the oxidant under metal-free conditions. <i>Science Advances</i> , 2018 , 4, eaas9319	14.3	40
78	Conversion of levulinic acid to γ -valerolactone over ultra-thin TiO ₂ nanosheets decorated with ultrasmall Ru nanoparticle catalysts under mild conditions. <i>Green Chemistry</i> , 2019 , 21, 770-774	10	39
77	Selective hydrogenation of unsaturated aldehydes over Pt nanoparticles promoted by the cooperation of steric and electronic effects. <i>Chemical Communications</i> , 2018 , 54, 908-911	5.8	38
76	Nitrogen Dioxide Catalyzed Aerobic Oxidative Cleavage of C(OH)-C Bonds of Secondary Alcohols to Produce Acids. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17393-17398	16.4	30
75	Hydrogenolysis of Glycerol to 1,2-Propanediol over Ru ₂ Cu Bimetals Supported on Different Supports. <i>Clean - Soil, Air, Water</i> , 2012 , 40, 318-324	1.6	29
74	Catalysis of photooxidation reactions through transformation between Cu and Cu in TiO-Cu-MOF composites. <i>Chemical Communications</i> , 2018 , 54, 5984-5987	5.8	28

73	Selective catalytic transformation of lignin with guaiacol as the only liquid product. <i>Chemical Science</i> , 2019 , 11, 1347-1352	9.4	27
72	A fully heterogeneous catalyst Br-LDH for the cycloaddition reactions of CO with epoxides. <i>Chemical Communications</i> , 2019 , 55, 6942-6945	5.8	26
71	Naturally occurring gallic acid derived multifunctional porous polymers for highly efficient CO ₂ conversion and I ₂ capture. <i>Green Chemistry</i> , 2018 , 20, 4655-4661	10	26
70	Acceleration of Suzuki coupling reactions by abundant and non-toxic salt particles. <i>Green Chemistry</i> , 2014 , 16, 1198-1201	10	25
69	Basic ionic liquids promoted chemical transformation of CO ₂ to organic carbonates. <i>Science China Chemistry</i> , 2018 , 61, 1486-1493	7.9	24
68	Product-oriented Direct Cleavage of Chemical Linkages in Lignin. <i>ChemSusChem</i> , 2020 , 13, 4367-4381	8.3	23
67	Insights into Carbon Dioxide Electroreduction in Ionic Liquids: Carbon Dioxide Activation and Selectivity Tailored by Ionic Microhabitat. <i>ChemSusChem</i> , 2018 , 11, 3191-3197	8.3	23
66	Selective valorization of lignin to phenol by direct transformation of C-C and C-O bonds. <i>Science Advances</i> , 2020 , 6,	14.3	22
65	Cooperative catalysis of Pt/C and acid resin for the production of 2,5-dimethyltetrahydrofuran from biomass derived 2,5-hexanedione under mild conditions. <i>Green Chemistry</i> , 2016 , 18, 220-225	10	21
64	Selective utilization of methoxy groups in lignin for -methylation reaction of anilines. <i>Chemical Science</i> , 2019 , 10, 1082-1088	9.4	21
63	Aerobic Oxidative Cleavage and Esterification of C(OH)C Bonds. <i>Chem</i> , 2020 , 6, 3288-3296	16.2	21
62	Simultaneous and selective transformation of glucose to arabinose and nitrosobenzene to azoxybenzene driven by visible-light. <i>Green Chemistry</i> , 2016 , 18, 3852-3857	10	21
61	Self-supported hydrogenolysis of aromatic ethers to arenes. <i>Science Advances</i> , 2019 , 5, eaax6839	14.3	20
60	Synthesis of hierarchical mesoporous Prussian blue analogues in ionic liquid/water/MgCl ₂ and application in electrochemical reduction of CO ₂ . <i>Green Chemistry</i> , 2016 , 18, 1869-1873	10	19
59	The tetramethylguanidine-based ionic liquid-catalyzed synthesis of propylene glycol methyl ether. <i>New Journal of Chemistry</i> , 2010 , 34, 2534	3.6	19
58	Sustainable production of benzene from lignin. <i>Nature Communications</i> , 2021 , 12, 4534	17.4	19
57	An electrocatalytic route for transformation of biomass-derived furfural into 5-hydroxy-2(5)-furanone. <i>Chemical Science</i> , 2019 , 10, 4692-4698	9.4	18
56	CO ₂ Hydrogenation to Formate Catalyzed by Ru Coordinated with a N,P-Containing Polymer. <i>ACS Catalysis</i> , 2020 , 10, 8557-8566	13.1	18

55	Selective electrochemical reduction of carbon dioxide to ethanol a relay catalytic platform. <i>Chemical Science</i> , 2020 , 11, 5098-5104	9.4	18
54	Synthesis of higher carboxylic acids from ethers, CO and H. <i>Nature Communications</i> , 2019 , 10, 5395	17.4	18
53	Selective hydrogenation of 5-(hydroxymethyl)furfural to 5-methylfurfural over single atomic metals anchored on NbO. <i>Nature Communications</i> , 2021 , 12, 584	17.4	18
52	The Hydrogenation of Aromatic Compounds under Mild Conditions by Using a Solid Lewis Acid and Supported Palladium Catalyst. <i>ChemCatChem</i> , 2014 , 6, 3323-3327	5.2	17
51	Immobilized 1,1,3,3-Tetramethylguanidine Ionic Liquids as the Catalyst for Synthesizing Propylene Glycol Methyl Ether. <i>Catalysis Letters</i> , 2010 , 140, 49-54	2.8	17
50	Efficient Transformation of Anisole into Methylated Phenols over High-Silica HY Zeolites under Mild Conditions. <i>ChemCatChem</i> , 2015 , 7, 2831-2835	5.2	16
49	N-methylation of quinolines with CO ₂ and H ₂ catalyzed by Ru-triphos complexes. <i>Science China Chemistry</i> , 2017 , 60, 927-933	7.9	15
48	Heterogeneous Cobalt-Catalyzed Direct N-Formylation of Isoquinolines with CO ₂ and H ₂ . <i>ChemCatChem</i> , 2017 , 9, 1947-1952	5.2	15
47	Hydrogenolysis of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran under Mild Conditions without Any Additive. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5711-5716	8.3	15
46	Ru/Cd/Bentonite for the Partial Hydrogenation of Benzene: A Catalyst without Additives. <i>ChemCatChem</i> , 2012 , 4, 1836-1843	5.2	15
45	Synthesis of Supported Ultrafine Non-noble Subnanometer-Scale Metal Particles Derived from Metal-Organic Frameworks as Highly Efficient Heterogeneous Catalysts. <i>Angewandte Chemie</i> , 2016 , 128, 1092-1096	3.6	15
44	A new route to synthesize aryl acetates from carbonylation of aryl methyl ethers. <i>Science Advances</i> , 2018 , 4, eaaq0266	14.3	15
43	Nitrogen Dioxide Catalyzed Aerobic Oxidative Cleavage of C(OH)C Bonds of Secondary Alcohols to Produce Acids. <i>Angewandte Chemie</i> , 2019 , 131, 17554-17559	3.6	14
42	Stepwise degradation of hydroxyl compounds to aldehydes via successive C-C bond cleavage. <i>Chemical Communications</i> , 2019 , 55, 925-928	5.8	14
41	Selective hydrogenation of aromatic furfurals into aliphatic tetrahydrofurfural derivatives. <i>Green Chemistry</i> , 2020 , 22, 4937-4942	10	13
40	A route to support Pt sub-nanoparticles on TiO ₂ and catalytic hydrogenation of quinoline to 1,2,3,4-tetrahydroquinoline at room temperature. <i>Catalysis Science and Technology</i> , 2018 , 8, 4314-4317	5.5	13
39	Halogen-free fixation of carbon dioxide into cyclic carbonates via bifunctional organocatalysts. <i>Green Chemistry</i> , 2021 , 23, 1147-1153	10	13
38	o-,m-Dimethylation of nitrobenzenes with CO and water by electrocatalysis. <i>Chemical Science</i> , 2017 , 8, 5669-5674	5.7	11

- 37 Computational investigations on the phosphine-ligated CuH-catalyzed conjugate reduction of α,β -unsaturated ketones: regioselectivity and stereoselectivity. *RSC Advances*, **2014**, 4, 5726 3.7 11
- 36 Aerobic selective oxidation of methylaromatics to benzoic acids over Co@N/Co-CNTs with high loading CoN₄ species. *Journal of Materials Chemistry A*, **2019**, 7, 27212-27216 13 11
- 35 Selective hydration of asymmetric internal aryl alkynes without directing groups to β -aryl ketones over Cu-based catalyst. *New Journal of Chemistry*, **2017**, 41, 6290-6295 3.6 10
- 34 Low-Temperature Reverse Water-Gas Shift Process and Transformation of Renewable Carbon Resources to Value-Added Chemicals. *ChemSusChem*, **2019**, 12, 5149-5156 8.3 10
- 33 Selective Utilization of the Methoxy Group in Lignin to Produce Acetic Acid. *Angewandte Chemie*, **2017**, 129, 15064-15068 3.6 10
- 32 Pd nanoparticles/polyoxometalate/ionic liquid composites on SiO₂ as multifunctional catalysts for efficient production of ketones from diaryl ethers. *Green Chemistry*, **2018**, 20, 4865-4869 10 10
- 31 Methanol Promoted Palladium-Catalyzed Amine Formylation with CO₂ and H₂ by the Formation of HCOOCH₃. *ChemCatChem*, **2018**, 10, 5124-5127 5.2 10
- 30 Switching chirality in the assemblies of bio-based amphiphiles solely by varying their alkyl chain length. *Chemical Communications*, **2017**, 53, 2162-2165 5.8 8
- 29 Hollow Metal-Organic-Framework-Mediated In Situ Architecture of Copper Dendrites for Enhanced CO₂ Electroreduction. *Angewandte Chemie*, **2020**, 132, 8981-8986 3.6 8
- 28 Synthesis of nitrogen and sulfur co-doped hierarchical porous carbons and metal-free oxidative coupling of silanes with alcohols. *Chemical Communications*, **2017**, 53, 13019-13022 5.8 8
- 27 Hydrogenation of methyl laurate to produce lauryl alcohol over Cu/ZnO/Al₂O₃ with methanol as the solvent and hydrogen source. *Pure and Applied Chemistry*, **2011**, 84, 779-788 2.1 8
- 26 Synthesis of Propylene Glycol Methyl Ether Catalyzed by MCM-41. *Synthetic Communications*, **2011**, 41, 891-897 1.7 8
- 25 N-vinyl pyrrolidone promoted aqueous-phase dehydrogenation of formic acid over PVP-stabilized Ru nanoclusters. *Science China Chemistry*, **2016**, 59, 1342-1347 7.9 7
- 24 The study of surface species and structures of oxide-derived copper catalysts for electrochemical CO reduction. *Chemical Science*, **2021**, 12, 5938-5943 9.4 7
- 23 Highly Efficient Oxidative Cyanation of Aldehydes to Nitriles over Se,S,N-tri-Doped Hierarchically Porous Carbon Nanosheets. *Angewandte Chemie - International Edition*, **2021**, 60, 21479-21485 16.4 7
- 22 Copper/Carbon Heterogeneous Interfaces for Enhanced Selective Electrocatalytic Reduction of CO to Formate. *Small*, **2021**, 17, e2102629 11 7
- 21 Synthesis of hierarchical porous FeOOH catalysts in ionic liquid/water/CH₂Cl₂ ionogels. *Chemical Communications*, **2016**, 52, 4687-90 5.8 6
- 20 The production of 4-ethyltoluene via directional valorization of lignin. *Green Chemistry*, **2020**, 22, 2191-2196 5

19	Highly Efficient Synthesis of Amino Acids by Amination of Bio-Derived Hydroxy Acids with Ammonia over Ru Supported on N-Doped Carbon Nanotubes. <i>ChemSusChem</i> , 2020 , 13, 5683-5689	8.3	5
18	Ethylenediamine promoted the hydrogenative coupling of nitroarenes over Ni/C catalyst. <i>Chinese Chemical Letters</i> , 2019 , 30, 203-206	8.1	5
17	Robust selenium-doped carbon nitride nanotubes for selective electrocatalytic oxidation of furan compounds to maleic acid. <i>Chemical Science</i> , 2021 , 12, 6342-6349	9.4	5
16	Selective aerobic oxidation of cyclic ethers to lactones over Au/CeO without any additives. <i>Chemical Communications</i> , 2020 , 56, 2638-2641	5.8	4
15	Electrochemical Reduction of Carbon Dioxide to Ethanol: An Approach to Transforming Greenhouse Gas to Fuel Source. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 588-603	4.5	4
14	Salt-mediated synthesis of bimetallic networks with structural defects and their enhanced catalytic performances. <i>Chemical Communications</i> , 2018 , 54, 12065-12068	5.8	3
13	Solid surface frustrated Lewis pair constructed on layered AlOOH for hydrogenation reaction.. <i>Nature Communications</i> , 2022 , 13, 2320	17.4	3
12	Dehydroxyalkylative halogenation of C(aryl)-C bonds of aryl alcohols. <i>Chemical Communications</i> , 2020 , 56, 7120-7123	5.8	2
11	Synthesis of Bis(trimethylsilyl)acetylene (BTMSA) by Direct Reaction of CaC ₂ with N-(trimethylsilyl)imidazole. <i>ChemistrySelect</i> , 2020 , 5, 3644-3646	1.8	2
10	Selective Hydrogenolysis of Lignin Model Compounds to Aromatics over a Cobalt Nanoparticle Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11862-11871	8.3	2
9	Production of Piperidine and Lactam Chemicals from Biomass-Derived Triacetic Acid Lactone. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14405-14409	16.4	1
8	Soluble porous carbon cage-encapsulated highly active metal nanoparticle catalysts. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13670-13677	13	1
7	Crystal-phase engineering of PdCu nanoalloys facilitates selective hydrodeoxygenation at room temperature.. <i>Innovation(China)</i> , 2022 , 3, 100189	17.8	0
6	Organic amine mediated cleavage of C-C bonds in lignin and its platform molecules.. <i>Chemical Science</i> , 2021 , 12, 15110-15115	9.4	0
5	Monomeric vanadium oxide: a very efficient species for promoting aerobic oxidative dehydrogenation of N-heterocycles. <i>New Journal of Chemistry</i> , 2021 , 45, 431-437	3.6	0
4	Titelbild: Selective Utilization of the Methoxy Group in Lignin to Produce Acetic Acid (Angew. Chem. 47/2017). <i>Angewandte Chemie</i> , 2017 , 129, 14967-14967	3.6	
3	Adjacent Pt nanoparticles and sub-nanometer WO _x clusters determine catalytic isomerization of C ₇ H ₁₆ . <i>CCS Chemistry</i> , 1-25	7.2	
2	Production of Piperidine and Lactam Chemicals from Biomass-Derived Triacetic Acid Lactone. <i>Angewandte Chemie</i> , 2021 , 133, 14526-14530	3.6	

- 1 Highly Efficient Oxidative Cyanation of Aldehydes to Nitriles over Se,S,N-tri-Doped Hierarchically Porous Carbon Nanosheets. *Angewandte Chemie*, **2021**, 133, 21649-21655

3.6