

Huizhen Liu

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.

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	Crystal-phase engineering of PdCu nanoalloys facilitates selective hydrodeoxygenation at room temperature.. <i>Innovation(China)</i> , 2022 , 3, 100189	17.8	0
107	Solid surface frustrated Lewis pair constructed on layered AlOOH for hydrogenation reaction.. <i>Nature Communications</i> , 2022 , 13, 2320	17.4	3
106	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
105	Production of Piperidine and Lactam Chemicals from Biomass-Derived Triacetic Acid Lactone. <i>Angewandte Chemie</i> , 2021 , 133, 14526-14530	3.6	
104	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
103	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
102	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
101	Halogen-free fixation of carbon dioxide into cyclic carbonates via bifunctional organocatalysts. <i>Green Chemistry</i> , 2021 , 23, 1147-1153	10	13
100	Soluble porous carbon cage-encapsulated highly active metal nanoparticle catalysts. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13670-13677	13	1
99	The study of surface species and structures of oxide-derived copper catalysts for electrochemical CO reduction.. <i>Chemical Science</i> , 2021 , 12, 5938-5943	9.4	7
98	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
97	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
96	Sustainable production of benzene from lignin. <i>Nature Communications</i> , 2021 , 12, 4534	17.4	19
95	Highly Efficient Oxidative Cyanation of Aldehydes to Nitriles over Se,S,N-tri-Doped Hierarchically Porous Carbon Nanosheets. <i>Angewandte Chemie</i> , 2021 , 133, 21649-21655	3.6	
94	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
93	Highly Efficient Oxidative Cyanation of Aldehydes to Nitriles over Se,S,N-tri-Doped Hierarchically Porous Carbon Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21479-21485	16.4	7
92	Copper/Carbon Heterogenous Interfaces for Enhanced Selective Electrocatalytic Reduction of CO to Formate. <i>Small</i> , 2021 , 17, e2102629	11	7

91	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
90	Dehydroxyalkylative halogenation of C(aryl)-C bonds of aryl alcohols. <i>Chemical Communications</i> , 2020 , 56, 7120-7123	5.8	2
89	Product-oriented Direct Cleavage of Chemical Linkages in Lignin. <i>ChemSusChem</i> , 2020 , 13, 4367-4381	8.3	23
88	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
87	Hollow Metal-Organic-Framework-Mediated In Situ Architecture of Copper Dendrites for Enhanced CO ₂ Electroreduction. <i>Angewandte Chemie</i> , 2020 , 132, 8981-8986	3.6	8
86	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
85	Boosting CO Electroreduction on N,P-Co-doped Carbon Aerogels. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11123-11129	16.4	70
84	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
83	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
82	Selective hydrogenation of aromatic furfurals into aliphatic tetrahydrofurfural derivatives. <i>Green Chemistry</i> , 2020 , 22, 4937-4942	10	13
81	The production of 4-ethyltoluene via directional valorization of lignin. <i>Green Chemistry</i> , 2020 , 22, 2191-2196	5	
80	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
79	Selective electrochemical reduction of carbon dioxide to ethanol a relay catalytic platform. <i>Chemical Science</i> , 2020 , 11, 5098-5104	9.4	18
78	Aerobic Oxidative Cleavage and Esterification of C(OH) Bonds. <i>Chem</i> , 2020 , 6, 3288-3296	16.2	21
77	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
76	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
75	Selective utilization of methoxy groups in lignin for -methylation reaction of anilines. <i>Chemical Science</i> , 2019 , 10, 1082-1088	9.4	21
74	Conversion of levulinic acid to 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

73	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
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	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
70	Selective electroreduction of carbon dioxide to methanol on copper selenide nanocatalysts. <i>Nature Communications</i> , 2019 , 10, 677	17.4	136
69	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
68	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
67	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
66	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
65	Low-Temperature Reverse Water-Gas Shift Process and Transformation of Renewable Carbon Resources to Value-Added Chemicals. <i>ChemSusChem</i> , 2019 , 12, 5149-5156	8.3	10
64	Stepwise degradation of hydroxyl compounds to aldehydes via successive C-C bond cleavage. <i>Chemical Communications</i> , 2019 , 55, 925-928	5.8	14
63	Selective catalytic transformation of lignin with guaiacol as the only liquid product. <i>Chemical Science</i> , 2019 , 11, 1347-1352	9.4	27
62	Aerobic selective oxidation of methylaromatics to benzoic acids over Co@N/Co-CNTs with high loading CoN ₄ species. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27212-27216	13	11
61	Self-supported hydrogenolysis of aromatic ethers to arenes. <i>Science Advances</i> , 2019 , 5, eaax6839	14.3	20
60	Synthesis of higher carboxylic acids from ethers, CO and H ₂ . <i>Nature Communications</i> , 2019 , 10, 5395	17.4	18
59	Ethylenediamine promoted the hydrogenative coupling of nitroarenes over Ni/C catalyst. <i>Chinese Chemical Letters</i> , 2019 , 30, 203-206	8.1	5
58	Selectively transform lignin into value-added chemicals. <i>Chinese Chemical Letters</i> , 2019 , 30, 15-24	8.1	57
57	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
56	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

55	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
54	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
53	Pd nanoparticles/polyoxometalate-ionic liquid composites on SiO ₂ as multifunctional catalysts for efficient production of ketones from diaryl ethers. <i>Green Chemistry</i> , 2018 , 20, 4865-4869	10	10
52	Basic ionic liquids promoted chemical transformation of CO ₂ to organic carbonates. <i>Science China Chemistry</i> , 2018 , 61, 1486-1493	7.9	24
51	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
50	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
49	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
48	Methanol Promoted Palladium-Catalyzed Amine Formylation with CO ₂ and H ₂ by the Formation of HCOOCH ₃ . <i>ChemCatChem</i> , 2018 , 10, 5124-5127	5.2	10
47	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
46	A new route to synthesize aryl acetates from carbonylation of aryl methyl ethers. <i>Science Advances</i> , 2018 , 4, eaq0266	14.3	15
45	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
44	Switching chirality in the assemblies of bio-based amphiphiles solely by varying their alkyl chain length. <i>Chemical Communications</i> , 2017 , 53, 2162-2165	5.8	8
43	Synthesis of ketones from biomass-derived feedstock. <i>Nature Communications</i> , 2017 , 8, 14190	17.4	75
42	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
41	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
40	Heterogeneous Cobalt-Catalyzed Direct N-Formylation of Isoquinolines with CO ₂ and H ₂ . <i>ChemCatChem</i> , 2017 , 9, 1947-1952	5.2	15
39	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
38	,-Dimethylation of nitrobenzenes with CO and water by electrocatalysis. <i>Chemical Science</i> , 2017 , 8, 5669-5674	5.7	11

37	Selective hydration of asymmetric internal aryl alkynes without directing groups to β -aryl ketones over Cu-based catalyst. <i>New Journal of Chemistry</i> , 2017 , 41, 6290-6295	3.6	10
36	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
35	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
34	Selective Utilization of the Methoxy Group in Lignin to Produce Acetic Acid. <i>Angewandte Chemie</i> , 2017 , 129, 15064-15068	3.6	10
33	Synthesis of nitrogen and sulfur co-doped hierarchical porous carbons and metal-free oxidative coupling of silanes with alcohols. <i>Chemical Communications</i> , 2017 , 53, 13019-13022	5.8	8
32	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	
31	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
30	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
29	Biomass-derived γ -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
28	Copper-catalyzed N-formylation of amines with CO ₂ under ambient conditions. <i>RSC Advances</i> , 2016 , 6, 32370-32373	3.7	61
27	Synthesis of hierarchical porous γ -FeOOH catalysts in ionic liquid/water/CH ₂ Cl ₂ ionogels. <i>Chemical Communications</i> , 2016 , 52, 4687-90	5.8	6
26	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
25	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
24	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
23	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
22	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
21	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
20	N-vinyl pyrrolidone promoted aqueous-phase dehydrogenation of formic acid over PVP-stabilized Ru nanoclusters. <i>Science China Chemistry</i> , 2016 , 59, 1342-1347	7.9	7

19	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
18	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
17	Acceleration of Suzuki coupling reactions by abundant and non-toxic salt particles. <i>Green Chemistry</i> , 2014 , 16, 1198-1201	10	25
16	Computational investigations on the phosphine-ligated CuH-catalyzed conjugate reduction of α,β -unsaturated ketones: regioselectivity and stereoselectivity. <i>RSC Advances</i> , 2014 , 4, 5726	3.7	11
15	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
14	Cycloaddition of CO ₂ to epoxides catalyzed by imidazolium-based polymeric ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 1584	10	147
13	Ru κ supported on hydroxyapatite as an effective catalyst for partial hydrogenation of benzene. <i>Green Chemistry</i> , 2013 , 15, 152-159	10	67
12	Ru κ /Bentonite for the Partial Hydrogenation of Benzene: A Catalyst without Additives. <i>ChemCatChem</i> , 2012 , 4, 1836-1843	5.2	15
11	Hydrogenolysis of Glycerol to 1,2-Propanediol over Ru κ Bimetals Supported on Different Supports. <i>Clean - Soil, Air, Water</i> , 2012 , 40, 318-324	1.6	29
10	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
9	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
8	Highly selective benzene hydrogenation to cyclohexene over supported Ru catalyst without additives. <i>Green Chemistry</i> , 2011 , 13, 1106	10	41
7	Hydrogenation of methyl laurate to produce lauryl alcohol over Cu/ZnO/Al ₂ O ₃ with methanol as the solvent and hydrogen source. <i>Pure and Applied Chemistry</i> , 2011 , 84, 779-788	2.1	8
6	Synthesis of Propylene Glycol Methyl Ether Catalyzed by MCM-41. <i>Synthetic Communications</i> , 2011 , 41, 891-897	1.7	8
5	The tetramethylguanidine-based ionic liquid-catalyzed synthesis of propylene glycol methyl ether. <i>New Journal of Chemistry</i> , 2010 , 34, 2534	3.6	19
4	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
3	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
2	Selective phenol hydrogenation to cyclohexanone over a dual supported Pd-Lewis acid catalyst. <i>Science</i> , 2009 , 326, 1250-2	33.3	458

- 1 Adjacent Pt nanoparticles and sub-nanometer WO_x clusters determine catalytic isomerization of C
7 H 16. *CCS Chemistry*, 1-25

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