

# Jiangang Chen

## List of Publications by Citations

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54  
papers

567  
citations

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20  
g-index

58  
ext. papers

753  
ext. citations

4.8  
avg, IF

4.27  
L-index

#	Paper	IF	Citations
54	Effect of pore size on the performance of mesoporous zirconia-supported cobalt Fischer-Tropsch catalysts. <i>Green Chemistry</i> , <b>2007</b> , 9, 611-615	10	59
53	Facile Fabrication of BCN Nanosheet-Encapsulated Nano-Iron as Highly Stable Fischer-Tropsch Synthesis Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14319-14327	9.5	51
52	Design of a core-shell catalyst: an effective strategy for suppressing side reactions in syngas for direct selective conversion to light olefins. <i>Chemical Science</i> , <b>2020</b> , 11, 4097-4105	9.4	45
51	The evolution of Fe phases of a fused iron catalyst during reduction and Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3626-3636	5.5	27
50	FeO nanocubes assembled on RGO nanosheets: Ultrasound induced in-situ and eco-friendly synthesis, characterization and their excellent catalytic performance for the production of liquid fuel in Fischer-tropsch synthesis. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 42, 271-282	8.9	20
49	Support Effect of the Fe/BN Catalyst on Fischer-Tropsch Performances: Role of the Surface Bond Defect. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 2805-2810	3.9	19
48	The crystal plane effect of CoFe nanocrystals on Fischer-Tropsch synthesis. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 13116-13122	13	17
47	Bifunctional Capsule Catalyst of Al <sub>2</sub> O <sub>3</sub> @Cu with Strengthened Dehydration Reaction Field for Direct Synthesis of Dimethyl Ether from Syngas. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 22905-22911	3.9	17
46	CdO nanorods and Cd(OH)/Ag core/satellite nanorods: Rapid and efficient sonochemical synthesis, characterization and their magnetic properties. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 40, 577-582	8.9	16
45	Ru <sub>1</sub> Co <sub>n</sub> Single-Atom Alloy for Enhancing Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , <b>2021</b> , 11, 1886-1896	13.1	16
44	Effect of strain on the performance of iron-based catalyst in Fischer-Tropsch synthesis. <i>Journal of Catalysis</i> , <b>2018</b> , 358, 237-242	7.3	15
43	Morphology effect of one-dimensional iron oxide nanocatalysts on Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 7505-7511	5.5	15
42	Efficient one-pot sonochemical synthesis of thickness-controlled silica-coated superparamagnetic iron oxide (Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> ) nanospheres. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	15
41	Ultrathin N-rich boron nitride nanosheets supported iron catalyst for Fischer-Tropsch synthesis. <i>RSC Advances</i> , <b>2016</b> , 6, 38356-38364	3.7	15
40	Shape- and size-controlled synthesis of Cu nanoparticles wrapped on RGO nanosheet catalyst and their outstanding stability and catalytic performance in the hydrogenation reaction of dimethyl oxalate. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19133-19142	13	15
39	Excellent performance in hydrogenation of esters over Cu/ZrO <sub>2</sub> catalyst prepared by bio-derived salicylic acid. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 7220-7230	5.5	14
38	Synthesis of Cu <sub>2</sub> Zn <sub>1-x</sub> Zr <sub>x</sub> AlO catalysts via a citrate complex route modified by different solvents and their dehydrogenation/hydrogenation performance. <i>RSC Advances</i> , <b>2015</b> , 5, 82822-82833	3.7	13

37	Highly dispersed, ultra-small and noble metal-free Cu nanodots supported on porous SiO <sub>2</sub> and their excellent catalytic hydrogenation of dimethyl oxalate to methyl glycolate. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 10290-10299	3.6	13
36	Synthesis of Cu/Mg/ZnO catalysts and catalysis in dimethyl oxalate hydrogenation to ethylene glycol: enhanced catalytic behavior in the presence of a Mg <sup>2+</sup> dopant. <i>RSC Advances</i> , <b>2017</b> , 7, 49548-49561	3.7	12
35	Effect of Configuration Addition of Precursors on Structure and Catalysis of Cu/SiO <sub>2</sub> Catalysts Prepared by Ammonia Evaporation-Hydrothermal Method. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 9285-9292	3.9	12
34	Kinetic study of vapor-phase Beckmann rearrangement of cyclohexanone oxime over silicalite-1. <i>Chemical Engineering Science</i> , <b>2016</b> , 153, 246-254	4.4	12
33	Ultrasound induced morphology-controlled synthesis of Au nanoparticles decorated on Fe <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> catalyst and their catalytic performance in Fischer-Tropsch synthesis. <i>Fuel Processing Technology</i> , <b>2019</b> , 187, 63-72	7.2	10
32	Phase Transfer of Nanoparticles Using an Amphiphilic Ionic Liquid. <i>Langmuir</i> , <b>2016</b> , 32, 13746-13751	4	10
31	The effect of the unpaired d-orbital electron number in Fe and Co catalysts on Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 7942-7945	5.5	9
30	A Novel Hydrothermal Approach for the Synthesis of Flower-Like Fe <sub>2</sub> O <sub>3</sub> /Fe Foam Nanocrystals and Their Superior Performance in Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , <b>2017</b> , 147, 1153-1161	2.8	6
29	Insight into the deactivation mechanism of water on active Cu species for ester hydrogenation: Experimental and theoretical study. <i>Molecular Catalysis</i> , <b>2020</b> , 488, 110919	3.3	6
28	Direct dimethyl ether synthesis over mesoporous Cu/Al <sub>2</sub> O <sub>3</sub> catalyst via CO hydrogenation. <i>Research on Chemical Intermediates</i> , <b>2019</b> , 45, 5863-5876	2.8	6
27	Effect of annealing atmosphere on Fischer-Tropsch synthesis performance of Fe/Fe foam structured catalyst. <i>Fuel</i> , <b>2020</b> , 262, 116570	7.1	6
26	Sonochemical engineering of highly efficient and robust Au nanoparticle-wrapped on Fe/ZrO <sub>2</sub> nanorods and their controllable product selectivity in dimethyl oxalate hydrogenation. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 1125-1134	5.5	5
25	Sol-Gel Autocombustion Combined Carbothermal Synthesis of Iron-Based Catalysts for the Fischer-Tropsch Reaction. <i>ChemCatChem</i> , <b>2018</b> , 10, 831-836	5.2	5
24	The Promotion Effect of Transition Metals on Water-Tolerant Performance of Cu/SiO <sub>2</sub> Catalysts in Hydrogenation Reaction. <i>ChemistrySelect</i> , <b>2019</b> , 4, 14063-14068	1.8	5
23	Sonochemical synthesis of Zn-promoted porous MgO-supported lamellar Cu catalysts for selective hydrogenation of dimethyl oxalate to ethanol and their long-term stability. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17553-17562	3.6	5
22	Effect of Preparation Method on ZrO <sub>2</sub> -Based Catalysts Performance for Isobutanol Synthesis from Syngas. <i>Catalysts</i> , <b>2019</b> , 9, 752	4	4
21	Substrate-induced hydrothermal synthesis of hematite superstructures and their Fischer-Tropsch synthesis performance. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 3454-3461	3.6	4
20	Design and construction of Ni <sub>3</sub> -Co <sub>x</sub> O <sub>4</sub> nanorods grown on Ni foam for tuning synthetic natural gas heating values. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2743-2749	3.6	4

19	Influences of melting method on fused iron catalysts for Fischer-Tropsch synthesis. <i>RSC Advances</i> , <b>2016</b> , 6, 60349-60354	3.7	4
18	Effect of cobalt introduction order over Co/SiO <sub>2</sub> sol-gel catalysts for Fischer-Tropsch synthesis. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2012</b> , 106, 217-224	1.6	4
17	Influence of pore regularity on Fischer-Tropsch synthesis with Co/SiO <sub>2</sub> Catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2011</b> , 102, 155-164	1.6	4
16	Textural Structure of Co-based Catalysts and their Performance for Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , <b>2010</b> , 140, 127-133	2.8	4
15	Effect of Cu loading on the structural evolution and catalytic activity of Cu/Mg/ZnO catalysts for dimethyl oxalate hydrogenation. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4486-4493	3.6	3
14	Influence of Support Preparation Methods on Structure and Catalytic Activity of Co/TiO <sub>2</sub> -SiO <sub>2</sub> for Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , <b>2009</b> , 133, 341-345	2.8	3
13	Cobalt loss from Co-ZrO <sub>2</sub> catalyst for Fischer-Tropsch synthesis in continuously stirred tank reactor. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2008</b> , 93, 351-358		3
12	A boron-doped carbon aerogel-supported Cu catalyst for the selective hydrogenation of dimethyl oxalate. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 3232-3240	3.6	3
11	Direct Conversion of Syngas to Higher Alcohols over a CuCoAl/T-ZrO <sub>2</sub> Multifunctional Catalyst. <i>ChemCatChem</i> , <b>2021</b> , 13, 3184-3197	5.2	3
10	Study on Fe-Co alloy role over RANEY-Co bimetallic catalysts in Fischer-Tropsch synthesis. <i>RSC Advances</i> , <b>2016</b> , 6, 101683-101687	3.7	3
9	ZnO-Al <sub>2</sub> O <sub>3</sub> -promoted CuO/ZrO <sub>2</sub> catalyst prepared by oxalate gel-coprecipitation for the conversion of water-bearing materials. <i>Journal of Sol-Gel Science and Technology</i> , <b>2018</b> , 85, 382-393	2.3	2
8	Fe <sub>2</sub> O <sub>3</sub> hollow microspheres as highly selective catalysts for the production of $\alpha$ -olefins. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17923-17930	3.6	2
7	Preparation of Single-Phase Iron Nitrides and Investigation of Their Fischer-Tropsch Synthesis Performance. <i>ChemistrySelect</i> , <b>2020</b> , 5, 3953-3958	1.8	1
6	Effect of Hydrothermal Treatment on Precipitated Iron Catalyst for Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , <b>2015</b> , 145, 702-711	2.8	1
5	Characterization, activity and selectivity of ethylenediamine modified Co/SiO <sub>2</sub> FT catalyst prepared by sol-gel method. <i>Korean Journal of Chemical Engineering</i> , <b>2009</b> , 26, 850-855	2.8	1
4	Comparative Study of the Effect of Water on Cu/SiO <sub>2</sub> Catalysts Prepared by Different Methods: Structure, Hydrogenation Performance and the Promotion of Reduction Cu <sup>+</sup> to Cu <sup>0</sup> . <i>ChemistrySelect</i> , <b>2020</b> , 5, 10781-10786	1.8	1
3	Effect of the ZnO/SiO <sub>2</sub> ratio on the structure and catalytic activity of Cu/SiO <sub>2</sub> and Cu/ZnO catalysts in water-containing ester hydrogenation. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 14560-14567	3.6	1
2	Effect of the Valence State of Iron in the Precursors on the Fischer-Tropsch Synthesis Performance of an Fe/Fe Foam Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 2410-2417	3.9	1

- 1 Effect of Calcination Temperature on the Textural Properties and Catalytic Behavior of the Al<sub>2</sub>O<sub>3</sub> Doped Mesoporous Monometallic Cu Catalysts in Dimethyl Oxalate Hydrogenation. *Catalysis Letters*, **2021**, 151, 2107-2115 2.8 ○