Jincan Kang

List of Publications by Year
in descending order

39	5,920	31	42
papers	citations	h-index (147801)	g-index (265206)

43	43	43	4263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New horizon in C1 chemistry: breaking the selectivity limitation in transformation of syngas and hydrogenation of CO₂ into hydrocarbon chemicals and fuels. Chemical Society Reviews, 2019, 48, 3193-3228.	38.1	742
2	Development of Novel Catalysts for Fischerâ€“Tropsch Synthesis: Tuning the Product Selectivity. ChemCatChem, 2010, 2, 1030-1058.	3.7	665
3	Direct and Highly Selective Conversion of Synthesis Gas into Lower Olefins: Design of a Bifunctional Catalyst Combining Methanol Synthesis and Carbonâ€“Carbon Coupling. Angewandte Chemie - International Edition, 2016, 55, 4725-4728.	13.8	468
4	Promoting electrocatalytic CO2 reduction to formate via sulfur-boosting water activation on indium surfaces. Nature Communications, 2019, 10, 892.	12.8	446
5	Bifunctional Catalysts for One-Step Conversion of Syngas into Aromatics with Excellent Selectivity and Stability. CheM, 2017, 3, 334-347.	11.7	377
6	Selective transformation of carbon dioxide into lower olefins with a bifunctional catalyst composed of ZnGa₂O₄ and SAPO-34. Chemical Communications, 2018, 54, 140-143.	4.1	265
7	Mesoporous Zeoliteâ€Supported Ruthenium Nanoparticles as Highly Selective Fischerâ€“Tropsch Catalysts for the Production of C₅â€“C₁₁ Isoparaffins. Angewandte Chemie - International Edition, 2011, 50, 5200-5203.	13.8	243
8	Ruthenium Nanoparticles Supported on Carbon Nanotubes as Efficient Catalysts for Selective Conversion of Synthesis Gas to Diesel Fuel. Angewandte Chemie - International Edition, 2009, 48, 2565-2568.	13.8	241
9	Highly Active ZnO-ZrO₂ Aerogels Integrated with H-ZSM-5 for Aromatics Synthesis from Carbon Dioxide. ACS Catalysis, 2020, 10, 302-310.	11.2	216
10	Design of efficient bifunctional catalysts for direct conversion of syngas into lower olefins <i>via</i> methanol/dimethyl ether intermediates. Chemical Science, 2018, 9, 4708-4718.	7.4	208
11	Impact of Hydrogenolysis on the Selectivity of the Fischerâ€“Tropsch Synthesis: Diesel Fuel Production over Mesoporous Zeoliteâ€Yâ€Supported Cobalt Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 4553-4556.	13.8	195
12	Fischerâ€“Tropsch Catalysts for the Production of Hydrocarbon Fuels with High Selectivity. ChemSusChem, 2014, 7, 1251-1264.	6.8	164
13	Tandem Catalysis for Hydrogenation of CO and CO₂ to Lower Olefins with Bifunctional Catalysts Composed of Spinel Oxide and SAPO-34. ACS Catalysis, 2020, 10, 8303-8314.	11.2	157
14	Single-pass transformation of syngas into ethanol with high selectivity by triple tandem catalysis. Nature Communications, 2020, 11, 827.	12.8	156
15	Direct Conversion of Syngas into Methyl Acetate, Ethanol, and Ethylene by Relay Catalysis via the Intermediate Dimethyl Ether. Angewandte Chemie - International Edition, 2018, 57, 12012-12016.	13.8	142
16	Ligand-Controlled Photocatalysis of CdS Quantum Dots for Lignin Valorization under Visible Light. ACS Catalysis, 2019, 9, 8443-8451.	11.2	128
17	Direct and Highly Selective Conversion of Synthesis Gas into Lower Olefins: Design of a Bifunctional Catalyst Combining Methanol Synthesis and Carbonâ€“Carbon Coupling. Angewandte Chemie, 2016, 128, 4803-4806.	2.0	115
18	Oxidative Dehydrogenation of Propane to Propylene in the Presence of HCl Catalyzed by CeO₂ and NiO-Modified CeO₂ Nanocrystals. ACS Catalysis, 2018, 8, 4902-4916.	11.2	95

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19	The active sites of Cuâ€“ZnO catalysts for water gas shift and CO hydrogenation reactions. Nature Communications, 2021, 12, 4331.	12.8	83
20	Advances in Catalysis for Syngas Conversion to Hydrocarbons. Advances in Catalysis, 2017, , 125-208.	0.2	64
21	Selective hydrogenation of CO2 and CO into olefins over Sodium- and Zinc-Promoted iron carbide catalysts. Journal of Catalysis, 2021, 395, 350-361.	6.2	58
22	Impact of hierarchical pore structure on the catalytic performances of MFI zeolites modified by ZnO for the conversion of methanol to aromatics. Catalysis Science and Technology, 2017, 7, 3598-3612.	4.1	54
23	Selective Conversion of Syngas to Aromatics over a Moâˆ’ZrO₂/Hâ€ZSMâ€5 Bifunctional Catalyst. ChemCatChem, 2019, 11, 1681-1688.	3.7	50
24	Gallium nitride catalyzed the direct hydrogenation of carbon dioxide to dimethyl ether as primary product. Nature Communications, 2021, 12, 2305.	12.8	45
25	Zn and Na promoted Fe catalysts for sustainable production of high-valued olefins by CO2 hydrogenation. Fuel, 2022, 309, 122105.	6.4	44
26	Ru particle size effect in Ru/CNT-catalyzed Fischer-Tropsch synthesis. Journal of Energy Chemistry, 2013, 22, 321-328.	12.9	39
27	Beyond Cars: Fischerâ€Tropsch Synthesis for Nonâ€Automotive Applications. ChemCatChem, 2019, 11, 1412-1424.	3.7	38
28	Synthesis of hierarchical SAPO-34 to improve the catalytic performance of bifunctional catalysts for syngas-to-olefins reactions. Journal of Catalysis, 2021, 394, 181-192.	6.2	38
29	Selective Hydrogenation of CO₂ to Ethanol over Sodium-Modified Rhodium Nanoparticles Embedded in Zeolite Silicalite-1. Journal of Physical Chemistry C, 2021, 125, 24429-24439.	3.1	31
30	Direct conversion of syngas into aromatics over a bifunctional catalyst: inhibiting net CO₂ release. Chemical Communications, 2020, 56, 5239-5242.	4.1	30
31	Functionalized Carbon Materials in Syngas Conversion. Small, 2021, 17, e2007527.	10.0	29
32	Iridium boosts the selectivity and stability of cobalt catalysts for syngas to liquid fuels. CheM, 2022, 8, 1050-1066.	11.7	26
33	Direct Conversion of Syngas into Methyl Acetate, Ethanol, and Ethylene by Relay Catalysis via the Intermediate Dimethyl Ether. Angewandte Chemie, 2018, 130, 12188-12192.	2.0	17
34	Lithium ion-exchanged zeolite faujasite as support of iron catalyst for Fischer-Tropsch synthesis. Catalysis Letters, 2007, 114, 178-184.	2.6	15
35	Reaction coupling as a promising methodology for selective conversion of syngas into hydrocarbons beyond Fischer-Tropsch synthesis. Science China Chemistry, 2017, 60, 1382-1385.	8.2	15
36	Carbon nanotube-supported bimetallic Cu-Fe catalysts for syngas conversion to higher alcohols. Molecular Catalysis, 2019, 479, 110610.	2.0	15

#	Article	IF	Citations
37	Tuning the interfaces of Coâ€“Co_2C with sodium and its relation to the higher alcohol production in Fischerâ€“Tropsch synthesis. Journal of Materials Science, 2020, 55, 9037-9047.	3.7	10
38	Selective Transformation of Methanol to Ethanol in the Presence of Syngas over Composite Catalysts. ACS Catalysis, 2022, 12, 8451-8461.	11.2	9
39	Functionalized Carbon Materials in Syngas Conversion (Small 48/2021). Small, 2021, 17, 2170256.	10.0	6