Guohui Yang

List of Publications by Year
in descending order

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101	4,280	101543	123424
papers	citations	36 h-index	61 g-index

103	103	103	2967
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silicalite-1 encapsulated rhodium nanoparticles for hydroformylation of 1-hexene. Catalysis Today, 2023, 410, 150-156.	4.4	3
2	FeMn@HZSM-5 capsule catalyst for light olefins direct synthesis via Fischer-Tropsch synthesis: Studies on depressing the CO2 formation. Applied Catalysis B: Environmental, 2022, 300, 120713.	20.2	40
3	Hierarchical nano-sized ZnZr-Silicalite-1 multifunctional catalyst for selective conversion of ethanol to butadiene. Applied Catalysis B: Environmental, 2022, 301, 120822.	20.2	20
4	Capsule-like zeolite catalyst fabricated by solvent-free strategy for para-Xylene formation from CO2 hydrogenation. Applied Catalysis B: Environmental, 2022, 303, 120906.	20.2	42
5	Enhanced performance and stability of Cu/ZnO catalyst by introducing MgO for low-temperature methanol synthesis using methanol itself as catalytic promoter. Fuel, 2022, 315, 123272.	6.4	17
6	Selective direct conversion of aqueous ethanol into butadiene via rational design of multifunctional catalysts. Catalysis Science and Technology, 2022, 12, 2210-2222.	4.1	9
7	Ammonia pools in zeolites for direct fabrication of catalytic centers. Nature Communications, 2022, 13, 935.	12.8	12
8	Direct Conversion of CO₂ to Aromatics over Kâ€“Znâ€“Fe/ZSM-5 Catalysts via a Fischerâ€“Tropsch Synthesis Pathway. Industrial & Engineering Chemistry Research, 2022, 61, 10336-10346.	3.7	18
9	Recent advances in the routes and catalysts for ethanol synthesis from syngas. Chemical Society Reviews, 2022, 51, 5606-5659.	38.1	40
10	Probing the promotional roles of lanthanum in physicochemical properties and performance of ZnZr/Si-beta catalyst for direct conversion of aqueous ethanol to butadiene. Catalysis Today, 2022, , .	4.4	2
11	More efficient ethanol synthesis from dimethyl ether and syngas over the combined nano-sized ZSM-35 zeolite with CuZnAl catalyst. Catalysis Today, 2021, 369, 88-94.	4.4	11
12	Insights into the synergistic effect of active centers over ZnMg/SBA-15 catalysts in direct synthesis of butadiene from ethanol. Reaction Chemistry and Engineering, 2021, 6, 548-558.	3.7	14
13	Effective Suppression of CO Selectivity for CO₂ Hydrogenation to High-Quality Gasoline. ACS Catalysis, 2021, 11, 1528-1547.	11.2	54
14	Role of Ga³⁺ promoter in the direct synthesis of iso-butanol via syngas over a Kâ€“ZnO/ZnCr₂O₄ catalyst. Catalysis Science and Technology, 2021, 11, 1077-1088.	4.1	5
15	Influence of Carbon Content in Ni-Doped Mo2C Catalysts on CO Hydrogenation to Mixed Alcohol. Catalysts, 2021, 11, 230.	3.5	9
16	Structureâ€“Performance Correlations over Cu/ZnO Interface for Low-Temperature Methanol Synthesis from Syngas Containing CO₂. ACS Applied Materials & Interfaces, 2021, 13, 8191-8205.	8.0	31
17	Probing Hydrophobization of a Cu/ZnO Catalyst for Suppression of Waterâ€“Gas Shift Reaction in Syngas Conversion. ACS Catalysis, 2021, 11, 4633-4643.	11.2	34
18	Propane Aromatization Tuned by Tailoring Cr Modified Ga/ZSMâ€5 Catalysts. ChemCatChem, 2021, 13, 3601-3610.	3.7	3

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19	From Single Metal to Bimetallic Sites: Enhanced Higher Hydrocarbons Yield of CO₂ Hydrogenation over Bimetallic Catalysts. ChemistrySelect, 2021, 6, 5241-5247.	1.5	5
20	One-Pot Hydrothermal Synthesis of Multifunctional ZnZrTUD-1 Catalysts for Highly Efficient Direct Synthesis of Butadiene from Ethanol. ACS Sustainable Chemistry and Engineering, 2021, 9, 10569-10578.	6.7	14
21	A Carbonylation Zeolite with Specific Nanosheet Structure for Efficient Catalysis. ACS Nano, 2021, 15, 13568-13578.	14.6	18
22	Direct Conversion of CO₂ to Ethanol Boosted by Intimacy-Sensitive Multifunctional Catalysts. ACS Catalysis, 2021, 11, 11742-11753.	11.2	69
23	Multi-Promoters Regulated Iron Catalyst with Well-Matching Reverse Water-Gas Shift and Chain Propagation for Boosting CO2 Hydrogenation. Journal of CO2 Utilization, 2021, 52, 101700.	6.8	22
24	Boosting liquid hydrocarbons selectivity from CO2 hydrogenation by facilely tailoring surface acid properties of zeolite via a modified Fischer-Tropsch synthesis. Fuel, 2021, 306, 121684.	6.4	26
25	Resistance against Carbon Deposition via Controlling Spatial Distance of Catalytic Components in Methane Dehydroaromatization. Catalysts, 2021, 11, 148.	3.5	3
26	Boosting the synthesis of value-added aromatics directly from syngas via a Cr₂O₃ and Ga doped zeolite capsule catalyst. Chemical Science, 2021, 12, 7786-7792.	7.4	18
27	Tuning the Cu⁺ species of Cu-based catalysts for direct synthesis of ethanol from syngas. New Journal of Chemistry, 2021, 45, 20832-20839.	2.8	9
28	Space-Confined Self-Regulation Mechanism from a Capsule Catalyst to Realize an Ethanol Direct Synthesis Strategy. ACS Catalysis, 2020, 10, 1366-1374.	11.2	37
29	Catalytic Oligomerization of Isobutyl Alcohol to Hydrocarbon Liquid Fuels over Acidic Zeolite Catalysts. ChemistrySelect, 2020, 5, 528-532.	1.5	6
30	Fabrication of a CuZn-based catalyst using a polyethylene glycol surfactant and supercritical drying. Catalysis Science and Technology, 2020, 10, 8410-8420.	4.1	4
31	Vapor-phase low-temperature methanol synthesis from CO2-containing syngas via self-catalysis of methanol and Cu/ZnO catalysts prepared by solid-state method. Applied Catalysis B: Environmental, 2020, 279, 119382.	20.2	38
32	Metal 3D printing technology for functional integration of catalytic system. Nature Communications, 2020, 11, 4098.	12.8	82
33	Selective Conversion of CO₂ into paraâ€Xylene over a ZnCr₂O₄â€ZSMâ€5 Catalyst. ChemSusChem, 2020, 13, 6541-6545.	6.8	33
34	LDH-Derived (CuZn)_xAl_y Bifunctional Catalyst for Direct Synthesis of Dimethyl Ether from Syngas. Industrial & Engineering Chemistry Research, 2020, 59, 11087-11097.	3.7	13
35	Induced high selectivity methanol formation during CO2 hydrogenation over a CuBr2-modified CuZnZr catalyst. Journal of Catalysis, 2020, 389, 47-59.	6.2	44
36	Design of a coreâ€“shell catalyst: an effective strategy for suppressing side reactions in syngas for direct selective conversion to light olefins. Chemical Science, 2020, 11, 4097-4105.	7.4	95

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37	Urea-derived Cu/ZnO catalyst being dried by supercritical CO2 for low-temperature methanol synthesis. Fuel, 2020, 268, 117213.	6.4	27
38	A Wellâ€Defined Coreâ€“Shellâ€Structured Capsule Catalyst for Direct Conversion of CO₂ into Liquefied Petroleum Gas. ChemSusChem, 2020, 13, 2060-2065.	6.8	23
39	Facile Synthesis of Protonâ€Type ZSMâ€5 by Using Quasiâ€Solidâ€Phase (QSP) Method. Chemistry - A European Journal, 2020, 26, 8532-8535.	3.3	5
40	Heteroatom doped iron-based catalysts prepared by urea self-combustion method for efficient CO2 hydrogenation. Fuel, 2020, 276, 118102.	6.4	27
41	A Study on the Effect of pH Value of Impregnation Solution in Nickel Catalyst Preparation for Methane Dry Reforming Reaction. ChemistrySelect, 2019, 4, 8953-8959.	1.5	6
42	NaBH₄Inâ€situ Reduced Cobalt Catalyst Supported on Zeolite A for 1â€Hexene Hydroformylation. ChemistrySelect, 2019, 4, 10447-10451.	1.5	6
43	Macroscopic assembly style of catalysts significantly determining their efficiency for converting CO₂ to gasoline. Catalysis Science and Technology, 2019, 9, 5401-5412.	4.1	30
44	Direct CO2 hydrogenation to light olefins by suppressing CO by-product formation. Fuel Processing Technology, 2019, 196, 106174.	7.2	69
45	Effect of Preparation Method on ZrO2-Based Catalysts Performance for Isobutanol Synthesis from Syngas. Catalysts, 2019, 9, 752.	3.5	9
46	A brand new zeolite catalyst for carbonylation reaction. Chemical Communications, 2019, 55, 1048-1051.	4.1	52
47	Designing ZrO2-based catalysts for the direct synthesis of isobutene from syngas: The studies on Zn promoter role. Fuel, 2019, 243, 34-40.	6.4	12
48	Hydrogenation of CO₂ into aromatics over a ZnCrO_xâ€“zeolite composite catalyst. Chemical Communications, 2019, 55, 973-976.	4.1	102
49	One-Pot Hydrothermal Synthesis of Nitrogen Functionalized Carbonaceous Material Catalysts with Embedded Iron Nanoparticles for CO₂ Hydrogenation. ACS Sustainable Chemistry and Engineering, 2019, 7, 8331-8339.	6.7	40
50	Sputtered Cu-ZnO/Î³-Al₂O₃ Bifunctional Catalyst with Ultra-Low Cu Content Boosting Dimethyl Ether Steam Reforming and Inhibiting Side Reactions. Industrial & Engineering Chemistry Research, 2019, 58, 7085-7093.	3.7	11
51	Ethanol and Higher Alcohols Synthesis from Syngas over CuCoM (M=Fe, Cr, Ga and Al) Nanoplates Derived From Hydrotalciteâ€Like Precursors. ChemCatChem, 2019, 11, 2695-2706.	3.7	29
52	Significant Advances in C1 Catalysis: Highly Efficient Catalysts and Catalytic Reactions. ACS Catalysis, 2019, 9, 3026-3053.	11.2	238
53	Highly-dispersed Ru nanoparticles sputtered on graphene for hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 7320-7325.	7.1	26
54	Direct and Oriented Conversion of CO₂ into Valueâ€Added Aromatics. Chemistry - A European Journal, 2019, 25, 5149-5153.	3.3	89

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55	Rationally Designing Bifunctional Catalysts as an Efficient Strategy To Boost CO₂ Hydrogenation Producing Value-Added Aromatics. ACS Catalysis, 2019, 9, 895-901.	11.2	236
56	Beyond Cars: Fischerâ€Tropsch Synthesis for Nonâ€Automotive Applications. ChemCatChem, 2019, 11, 1412-1424.	3.7	38
57	Designing a novel dual bed reactor to realize efficient ethanol synthesis from dimethyl ether and syngas. Catalysis Science and Technology, 2018, 8, 2087-2097.	4.1	28
58	Probing the promotional roles of cerium in the structure and performance of Cu/SiO₂ catalysts for ethanol production. Catalysis Science and Technology, 2018, 8, 6441-6451.	4.1	36
59	Silicaliteâ€1 Encapsulated Fe Particles over an Inâ€situ Crystal Process for Syngas to Gasoline with Low CO₂ Selectivity. ChemistrySelect, 2018, 3, 13632-13637.	1.5	3
60	Enhanced Liquid Fuel Production from CO₂ Hydrogenation: Catalytic Performance of Bimetallic Catalysts over a Twoâ€Stage Reactor System. ChemistrySelect, 2018, 3, 13705-13711.	1.5	33
61	Integrated tuneable synthesis of liquid fuels via Fischerâ€“Tropsch technology. Nature Catalysis, 2018, 1, 787-793.	34.4	300
62	Synergetic catalysis of bimetallic copperâ€“cobalt nanosheets for direct synthesis of ethanol and higher alcohols from syngas. Catalysis Science and Technology, 2018, 8, 3936-3947.	4.1	49
63	Insight into the Nanoparticle Growth in Supported Ni Catalysts during the Early Stage of CO Hydrogenation Reaction: The Important Role of Adsorbed CO Molecules. ACS Catalysis, 2018, 8, 6367-6374.	11.2	25
64	Selectively Converting Biomass to Jet Fuel in Largeâ€scale Apparatus. ChemCatChem, 2017, 9, 2668-2674.	3.7	12
65	A hollow Mo/HZSM-5 zeolite capsule catalyst: preparation and enhanced catalytic properties in methane dehydroaromatization. Journal of Materials Chemistry A, 2017, 5, 8599-8607.	10.3	59
66	Synergistic Effect of a Boronâ€Doped Carbonâ€Nanotubeâ€Supported Cu Catalyst for Selective Hydrogenation of Dimethyl Oxalate to Ethanol. Chemistry - A European Journal, 2017, 23, 8252-8261.	3.3	47
67	Building premium secondary reaction field with a miniaturized capsule catalyst to realize efficient synthesis of a liquid fuel directly from syngas. Catalysis Science and Technology, 2017, 7, 1996-2000.	4.1	19
68	Tandem catalytic synthesis of benzene from CO₂and H₂. Catalysis Science and Technology, 2017, 7, 2695-2699.	4.1	27
69	Design of an Autoreduced Copper in Carbon Nanotube Catalyst to Realize the Precisely Selective Hydrogenation of Dimethyl Oxalate. ChemCatChem, 2017, 9, 1067-1075.	3.7	28
70	One-pass selective conversion of syngas to para-xylene. Chemical Science, 2017, 8, 7941-7946.	7.4	154
71	Facile Preparation of Cuâ€Al Oxide Catalysts and Their Application in the Direct Synthesis of Ethanol from Syngas. ChemistrySelect, 2017, 2, 10365-10370.	1.5	11
72	Preparation and application of Cu/ZnO catalyst by urea hydrolysis method for low-temperature methanol synthesis from syngas. Fuel Processing Technology, 2017, 167, 69-77.	7.2	44

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73	Synthesis of isoalkanes over a core (Feâ€“Znâ€“Zr)â€“shell (zeolite) catalyst by CO₂ hydrogenation. Chemical Communications, 2016, 52, 7352-7355.	4.1	95
74	The role of potassium promoter in isobutanol synthesis over Znâ€“Cr based catalysts. Catalysis Science and Technology, 2016, 6, 4105-4115.	4.1	37
75	Structural and kinetical studies on the supercritical CO2 dried Cu/ZnO catalyst for low-temperature methanol synthesis. Chemical Engineering Journal, 2016, 295, 160-166.	12.7	21
76	Active and regioselective rhodium catalyst supported on reduced graphene oxide for 1-hexene hydroformylation. Catalysis Science and Technology, 2016, 6, 1162-1172.	4.1	45
77	Mechanistic insight to acidity effects of Ga/HZSM-5 on its activity for propane aromatization. RSC Advances, 2015, 5, 92222-92233.	3.6	42
78	Design of a Hierarchical Meso/Macroporous Zeoliteâ€supported Cobalt Catalyst for the Enhanced Direct Synthesis of Isoparaffins from Syngas. ChemCatChem, 2015, 7, 682-689.	3.7	23
79	Designing core (Cu/ZnO/Al2O3)â€“shell (SAPO-11) zeolite capsule catalyst with a facile physical way for dimethyl ether direct synthesis from syngas. Chemical Engineering Journal, 2015, 270, 605-611.	12.7	88
80	The real active sites over Znâ€“Cr catalysts for direct synthesis of isobutanol from syngas: structure-activity relationship. RSC Advances, 2015, 5, 89273-89281.	3.6	27
81	Iso-butanol direct synthesis from syngas over the alkali metals modified Cr/ZnO catalysts. Applied Catalysis A: General, 2015, 505, 141-149.	4.3	69
82	Tunable isoparaffin and olefin yields in Fischerâ€“Tropsch synthesis achieved by a novel iron-based micro-capsule catalyst. Catalysis Today, 2015, 251, 41-46.	4.4	29
83	Development of dual-membrane coated Fe/SiO2 catalyst for efficient synthesis of isoparaffins directly from syngas. Journal of Membrane Science, 2015, 475, 22-29.	8.2	30
84	Ethanol direct synthesis from dimethyl ether and syngas on the combination of noble metal impregnated zeolite with Cu/ZnO catalyst. Catalysis Today, 2014, 232, 22-26.	4.4	42
85	Fabrication of active Cuâ€“Zn nanoalloys on H-ZSM5 zeolite for enhanced dimethyl ether synthesis via syngas. Journal of Materials Chemistry A, 2014, 2, 8637.	10.3	43
86	Pt Nanoparticles Loaded on Reduced Graphene Oxide as an Effective Catalyst for the Direct Oxidation of 5-Hydroxymethylfurfural (HMF) to Produce 2,5-Furandicarboxylic Acid (FDCA) under Mild Conditions. Bulletin of the Chemical Society of Japan, 2014, 87, 1124-1129.	3.2	32
87	Oriented synthesis of target products in liquid-phase tandem reaction over a tripartite zeolite capsule catalyst. Chemical Science, 2013, 4, 3958.	7.4	25
88	A Catalyst for Oneâ€step Isoparaffin Production via Fischerâ€“Tropsch Synthesis: Growth of a Hâ€Mordenite Shell Encapsulating a Fused Iron Core. ChemCatChem, 2013, 5, 3101-3106.	3.7	30
89	Controllable encapsulation of cobalt clusters inside carbon nanotubes as effective catalysts for Fischerâ€“Tropsch synthesis. Catalysis Today, 2013, 215, 24-28.	4.4	66
90	Facile solid-state synthesis of Cuâ€“Znâ€“O catalysts for novel ethanol synthesis from dimethyl ether (DME) and syngas (CO+H2). Fuel, 2013, 109, 54-60.	6.4	31

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91	Formic acid directly assisted solid-state synthesis of metallic catalysts without further reduction: As-prepared Cu/ZnO catalysts for low-temperature methanol synthesis. Journal of Catalysis, 2013, 302, 83-90.	6.2	40
92	A new coreâ€“shell-like capsule catalyst with SAPO-46 zeolite shell encapsulated Cr/ZnO for the controlled tandem synthesis of dimethyl ether from syngas. Fuel, 2013, 111, 727-732.	6.4	59
93	An Introduction of CO₂ Conversion by Dry Reforming with Methane and New Route of Low-Temperature Methanol Synthesis. Accounts of Chemical Research, 2013, 46, 1838-1847.	15.6	137
94	Facile synthesis of H-type zeolite shell on a silica substrate for tandem catalysis. Chemical Communications, 2012, 48, 1263-1265.	4.1	51
95	Polyethylene Glycol Addition Effect on Preparing Cuâ€“Znâ€“O Catalysts for Low-temperature Methanol Synthesis. Journal of the Japan Petroleum Institute, 2011, 54, 344-345.	0.6	2
96	A new method of ethanol synthesis from dimethyl ether and syngas in a sequential dual bed reactor with the modified zeolite and Cu/ZnO catalysts. Catalysis Today, 2011, 164, 425-428.	4.4	66
97	Hydroformylation of 1-Hexene on Silicalite-1 Zeolite Membrane Coated Pdâ€“Co/A.C. Catalyst. Topics in Catalysis, 2010, 53, 608-614.	2.8	17
98	Confinement Effect and Synergistic Function of H-ZSM-5/Cu-ZnO-Al₂O₃ Capsule Catalyst for One-Step Controlled Synthesis. Journal of the American Chemical Society, 2010, 132, 8129-8136.	13.7	263
99	Novel Three-component Zeolite Capsule Catalyst for Direct Synthesis of Isoparaffin. Journal of the Japan Petroleum Institute, 2009, 52, 216-217.	0.6	4
100	New Method for Ethanol Synthesis from Dimethyl Ether and Syngas <i>via</i> Two-stage Reaction. Journal of the Japan Petroleum Institute, 2009, 52, 357-358.	0.6	9
101	Design of a zeolite capsule catalyst by controlling the support size for the direct synthesis of isoparaffin. Research on Chemical Intermediates, 2008, 34, 771-779.	2.7	7