

Guohui Yang

List of Publications by Year in descending order

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101
papers

4,280
citations

101543

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103
all docs

103
docs citations

103
times ranked

2967
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated tuneable synthesis of liquid fuels via Fischer-Tropsch technology. <i>Nature Catalysis</i> , 2018, 1, 787-793.	34.4	300
2	Confinement Effect and Synergistic Function of H-ZSM-5/Cu-ZnO-Al ₂ O ₃ Capsule Catalyst for One-Step Controlled Synthesis. <i>Journal of the American Chemical Society</i> , 2010, 132, 8129-8136.	13.7	263
3	Significant Advances in C1 Catalysis: Highly Efficient Catalysts and Catalytic Reactions. <i>ACS Catalysis</i> , 2019, 9, 3026-3053.	11.2	238
4	Rationally Designing Bifunctional Catalysts as an Efficient Strategy To Boost CO ₂ Hydrogenation Producing Value-Added Aromatics. <i>ACS Catalysis</i> , 2019, 9, 895-901.	11.2	236
5	One-pass selective conversion of syngas to <i>p</i> -xylene. <i>Chemical Science</i> , 2017, 8, 7941-7946.	7.4	154
6	An Introduction of CO ₂ Conversion by Dry Reforming with Methane and New Route of Low-Temperature Methanol Synthesis. <i>Accounts of Chemical Research</i> , 2013, 46, 1838-1847.	15.6	137
7	Hydrogenation of CO ₂ into aromatics over a ZnCrO _x -zeolite composite catalyst. <i>Chemical Communications</i> , 2019, 55, 973-976.	4.1	102
8	Synthesis of isoalkanes over a core (Fe-Zn-Zr)-shell (zeolite) catalyst by CO ₂ hydrogenation. <i>Chemical Communications</i> , 2016, 52, 7352-7355.	4.1	95
9	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> , 2020, 11, 4097-4105.	7.4	95
10	Direct and Oriented Conversion of CO ₂ into Value-Added Aromatics. <i>Chemistry - A European Journal</i> , 2019, 25, 5149-5153.	3.3	89
11	Designing core (Cu/ZnO/Al ₂ O ₃)-shell (SAPO-11) zeolite capsule catalyst with a facile physical way for dimethyl ether direct synthesis from syngas. <i>Chemical Engineering Journal</i> , 2015, 270, 605-611.	12.7	88
12	Metal 3D printing technology for functional integration of catalytic system. <i>Nature Communications</i> , 2020, 11, 4098.	12.8	82
13	Iso-butanol direct synthesis from syngas over the alkali metals modified Cr/ZnO catalysts. <i>Applied Catalysis A: General</i> , 2015, 505, 141-149.	4.3	69
14	Direct CO ₂ hydrogenation to light olefins by suppressing CO by-product formation. <i>Fuel Processing Technology</i> , 2019, 196, 106174.	7.2	69
15	Direct Conversion of CO ₂ to Ethanol Boosted by Intimacy-Sensitive Multifunctional Catalysts. <i>ACS Catalysis</i> , 2021, 11, 11742-11753.	11.2	69
16	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. <i>Catalysis Today</i> , 2011, 164, 425-428.	4.4	66
17	Controllable encapsulation of cobalt clusters inside carbon nanotubes as effective catalysts for Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2013, 215, 24-28.	4.4	66
18	A new core-shell-like capsule catalyst with SAPO-46 zeolite shell encapsulated Cr/ZnO for the controlled tandem synthesis of dimethyl ether from syngas. <i>Fuel</i> , 2013, 111, 727-732.	6.4	59

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19	A hollow Mo/HZSM-5 zeolite capsule catalyst: preparation and enhanced catalytic properties in methane dehydroaromatization. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8599-8607.	10.3	59
20	Effective Suppression of CO Selectivity for CO ₂ Hydrogenation to High-Quality Gasoline. <i>ACS Catalysis</i> , 2021, 11, 1528-1547.	11.2	54
21	A brand new zeolite catalyst for carbonylation reaction. <i>Chemical Communications</i> , 2019, 55, 1048-1051.	4.1	52
22	Facile synthesis of H-type zeolite shell on a silica substrate for tandem catalysis. <i>Chemical Communications</i> , 2012, 48, 1263-1265.	4.1	51
23	Synergetic catalysis of bimetallic copper-cobalt nanosheets for direct synthesis of ethanol and higher alcohols from syngas. <i>Catalysis Science and Technology</i> , 2018, 8, 3936-3947.	4.1	49
24	Synergistic Effect of a Boron-Doped Carbon-Nanotube-Supported Cu Catalyst for Selective Hydrogenation of Dimethyl Oxalate to Ethanol. <i>Chemistry - A European Journal</i> , 2017, 23, 8252-8261.	3.3	47
25	Active and regioselective rhodium catalyst supported on reduced graphene oxide for 1-hexene hydroformylation. <i>Catalysis Science and Technology</i> , 2016, 6, 1162-1172.	4.1	45
26	Preparation and application of Cu/ZnO catalyst by urea hydrolysis method for low-temperature methanol synthesis from syngas. <i>Fuel Processing Technology</i> , 2017, 167, 69-77.	7.2	44
27	Induced high selectivity methanol formation during CO ₂ hydrogenation over a CuBr ₂ -modified CuZnZr catalyst. <i>Journal of Catalysis</i> , 2020, 389, 47-59.	6.2	44
28	Fabrication of active Cu-Zn nanoalloys on H-ZSM5 zeolite for enhanced dimethyl ether synthesis via syngas. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8637.	10.3	43
29	Ethanol direct synthesis from dimethyl ether and syngas on the combination of noble metal impregnated zeolite with Cu/ZnO catalyst. <i>Catalysis Today</i> , 2014, 232, 22-26.	4.4	42
30	Mechanistic insight to acidity effects of Ga/HZSM-5 on its activity for propane aromatization. <i>RSC Advances</i> , 2015, 5, 92222-92233.	3.6	42
31	Capsule-like zeolite catalyst fabricated by solvent-free strategy for para-Xylene formation from CO ₂ hydrogenation. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120906.	20.2	42
32	Formic acid directly assisted solid-state synthesis of metallic catalysts without further reduction: As-prepared Cu/ZnO catalysts for low-temperature methanol synthesis. <i>Journal of Catalysis</i> , 2013, 302, 83-90.	6.2	40
33	One-Pot Hydrothermal Synthesis of Nitrogen Functionalized Carbonaceous Material Catalysts with Embedded Iron Nanoparticles for CO ₂ Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8331-8339.	6.7	40
34	FeMn@HZSM-5 capsule catalyst for light olefins direct synthesis via Fischer-Tropsch synthesis: Studies on depressing the CO ₂ formation. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120713.	20.2	40
35	Recent advances in the routes and catalysts for ethanol synthesis from syngas. <i>Chemical Society Reviews</i> , 2022, 51, 5606-5659.	38.1	40
36	Beyond Cars: Fischer-Tropsch Synthesis for Non-Automotive Applications. <i>ChemCatChem</i> , 2019, 11, 1412-1424.	3.7	38

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37	Vapor-phase low-temperature methanol synthesis from CO ₂ -containing syngas via self-catalysis of methanol and Cu/ZnO catalysts prepared by solid-state method. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119382.	20.2	38
38	The role of potassium promoter in isobutanol synthesis over Zn–Cr based catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 4105-4115.	4.1	37
39	Space-Confined Self-Regulation Mechanism from a Capsule Catalyst to Realize an Ethanol Direct Synthesis Strategy. <i>ACS Catalysis</i> , 2020, 10, 1366-1374.	11.2	37
40	Probing the promotional roles of cerium in the structure and performance of Cu/SiO ₂ catalysts for ethanol production. <i>Catalysis Science and Technology</i> , 2018, 8, 6441-6451.	4.1	36
41	Probing Hydrophobization of a Cu/ZnO Catalyst for Suppression of Water–Gas Shift Reaction in Syngas Conversion. <i>ACS Catalysis</i> , 2021, 11, 4633-4643.	11.2	34
42	Enhanced Liquid Fuel Production from CO ₂ Hydrogenation: Catalytic Performance of Bimetallic Catalysts over a Two-Stage Reactor System. <i>ChemistrySelect</i> , 2018, 3, 13705-13711.	1.5	33
43	Selective Conversion of CO ₂ into <i>p</i> -Xylene over a ZnCr ₂ O ₄ –ZSM-5 Catalyst. <i>ChemSusChem</i> , 2020, 13, 6541-6545.	6.8	33
44	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. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 1124-1129.	3.2	32
45	Facile solid-state synthesis of Cu–Zn–O catalysts for novel ethanol synthesis from dimethyl ether (DME) and syngas (CO+H ₂). <i>Fuel</i> , 2013, 109, 54-60.	6.4	31
46	Structure–Performance Correlations over Cu/ZnO Interface for Low-Temperature Methanol Synthesis from Syngas Containing CO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8191-8205.	8.0	31
47	A Catalyst for One-Step Isoparaffin Production via Fischer–Tropsch Synthesis: Growth of a Hordenite Shell Encapsulating a Fused Iron Core. <i>ChemCatChem</i> , 2013, 5, 3101-3106.	3.7	30
48	Development of dual-membrane coated Fe/SiO ₂ catalyst for efficient synthesis of isoparaffins directly from syngas. <i>Journal of Membrane Science</i> , 2015, 475, 22-29.	8.2	30
49	Macroscopic assembly style of catalysts significantly determining their efficiency for converting CO ₂ to gasoline. <i>Catalysis Science and Technology</i> , 2019, 9, 5401-5412.	4.1	30
50	Tunable isoparaffin and olefin yields in Fischer–Tropsch synthesis achieved by a novel iron-based micro-capsule catalyst. <i>Catalysis Today</i> , 2015, 251, 41-46.	4.4	29
51	Ethanol and Higher Alcohols Synthesis from Syngas over CuCoM (M=Fe, Cr, Ga and Al) Nanoplates Derived From Hydrotalcite-Like Precursors. <i>ChemCatChem</i> , 2019, 11, 2695-2706.	3.7	29
52	Design of an Autoreduced Copper in Carbon Nanotube Catalyst to Realize the Precisely Selective Hydrogenation of Dimethyl Oxalate. <i>ChemCatChem</i> , 2017, 9, 1067-1075.	3.7	28
53	Designing a novel dual bed reactor to realize efficient ethanol synthesis from dimethyl ether and syngas. <i>Catalysis Science and Technology</i> , 2018, 8, 2087-2097.	4.1	28
54	The real active sites over Zn–Cr catalysts for direct synthesis of isobutanol from syngas: structure-activity relationship. <i>RSC Advances</i> , 2015, 5, 89273-89281.	3.6	27

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55	Tandem catalytic synthesis of benzene from CO ₂ and H ₂ . Catalysis Science and Technology, 2017, 7, 2695-2699.	4.1	27
56	Urea-derived Cu/ZnO catalyst being dried by supercritical CO ₂ for low-temperature methanol synthesis. Fuel, 2020, 268, 117213.	6.4	27
57	Heteroatom doped iron-based catalysts prepared by urea self-combustion method for efficient CO ₂ hydrogenation. Fuel, 2020, 276, 118102.	6.4	27
58	Highly-dispersed Ru nanoparticles sputtered on graphene for hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 7320-7325.	7.1	26
59	Boosting liquid hydrocarbons selectivity from CO ₂ hydrogenation by facilely tailoring surface acid properties of zeolite via a modified Fischer-Tropsch synthesis. Fuel, 2021, 306, 121684.	6.4	26
60	Oriented synthesis of target products in liquid-phase tandem reaction over a tripartite zeolite capsule catalyst. Chemical Science, 2013, 4, 3958.	7.4	25
61	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
62	Design of a Hierarchical Meso/Macroporous Zeolite-Supported Cobalt Catalyst for the Enhanced Direct Synthesis of Isoparaffins from Syngas. ChemCatChem, 2015, 7, 682-689.	3.7	23
63	A Well-Defined Core-Shell-Structured Capsule Catalyst for Direct Conversion of CO ₂ into Liquefied Petroleum Gas. ChemSusChem, 2020, 13, 2060-2065.	6.8	23
64	Multi-Promoters Regulated Iron Catalyst with Well-Matching Reverse Water-Gas Shift and Chain Propagation for Boosting CO ₂ Hydrogenation. Journal of CO ₂ Utilization, 2021, 52, 101700.	6.8	22
65	Structural and kinetical studies on the supercritical CO ₂ dried Cu/ZnO catalyst for low-temperature methanol synthesis. Chemical Engineering Journal, 2016, 295, 160-166.	12.7	21
66	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
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	A Carbonylation Zeolite with Specific Nanosheet Structure for Efficient Catalysis. ACS Nano, 2021, 15, 13568-13578.	14.6	18
69	Boosting the synthesis of value-added aromatics directly from syngas via a Cr ₂ O ₃ and Ga doped zeolite capsule catalyst. Chemical Science, 2021, 12, 7786-7792.	7.4	18
70	Direct Conversion of CO ₂ to Aromatics over Zn-Fe/ZSM-5 Catalysts via a Fischer-Tropsch Synthesis Pathway. Industrial & Engineering Chemistry Research, 2022, 61, 10336-10346.	3.7	18
71	Hydroformylation of 1-Hexene on Silicalite-1 Zeolite Membrane Coated Pd-Co/A.C. Catalyst. Topics in Catalysis, 2010, 53, 608-614.	2.8	17
72	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

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73	Insights into the synergistic effect of active centers over ZnMg/SBA-15 catalysts in direct synthesis of butadiene from ethanol. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 548-558.	3.7	14
74	One-Pot Hydrothermal Synthesis of Multifunctional ZnZrTUD-1 Catalysts for Highly Efficient Direct Synthesis of Butadiene from Ethanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10569-10578.	6.7	14
75	LDH-Derived (CuZn) _x /Al _y Bifunctional Catalyst for Direct Synthesis of Dimethyl Ether from Syngas. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 11087-11097.	3.7	13
76	Selectively Converting Biomass to Jet Fuel in Large-scale Apparatus. <i>ChemCatChem</i> , 2017, 9, 2668-2674.	3.7	12
77	Designing ZrO ₂ -based catalysts for the direct synthesis of isobutene from syngas: The studies on Zn promoter role. <i>Fuel</i> , 2019, 243, 34-40.	6.4	12
78	Ammonia pools in zeolites for direct fabrication of catalytic centers. <i>Nature Communications</i> , 2022, 13, 935.	12.8	12
79	Facile Preparation of Cu-Al Oxide Catalysts and Their Application in the Direct Synthesis of Ethanol from Syngas. <i>ChemistrySelect</i> , 2017, 2, 10365-10370.	1.5	11
80	Sputtered Cu-ZnO/ γ -Al ₂ O ₃ Bifunctional Catalyst with Ultra-Low Cu Content Boosting Dimethyl Ether Steam Reforming and Inhibiting Side Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7085-7093.	3.7	11
81	More efficient ethanol synthesis from dimethyl ether and syngas over the combined nano-sized ZSM-35 zeolite with CuZnAl catalyst. <i>Catalysis Today</i> , 2021, 369, 88-94.	4.4	11
82	New Method for Ethanol Synthesis from Dimethyl Ether and Syngas <i>via</i> Two-stage Reaction. <i>Journal of the Japan Petroleum Institute</i> , 2009, 52, 357-358.	0.6	9
83	Effect of Preparation Method on ZrO ₂ -Based Catalysts Performance for Isobutanol Synthesis from Syngas. <i>Catalysts</i> , 2019, 9, 752.	3.5	9
84	Influence of Carbon Content in Ni-Doped Mo ₂ C Catalysts on CO Hydrogenation to Mixed Alcohol. <i>Catalysts</i> , 2021, 11, 230.	3.5	9
85	Tuning the Cu ⁺ species of Cu-based catalysts for direct synthesis of ethanol from syngas. <i>New Journal of Chemistry</i> , 2021, 45, 20832-20839.	2.8	9
86	Selective direct conversion of aqueous ethanol into butadiene <i>via</i> rational design of multifunctional catalysts. <i>Catalysis Science and Technology</i> , 2022, 12, 2210-2222.	4.1	9
87	Design of a zeolite capsule catalyst by controlling the support size for the direct synthesis of isoparaffin. <i>Research on Chemical Intermediates</i> , 2008, 34, 771-779.	2.7	7
88	A Study on the Effect of pH Value of Impregnation Solution in Nickel Catalyst Preparation for Methane Dry Reforming Reaction. <i>ChemistrySelect</i> , 2019, 4, 8953-8959.	1.5	6
89	NaBH ₄ <i>In situ</i> Reduced Cobalt Catalyst Supported on Zeolite A for 1-Hexene Hydroformylation. <i>ChemistrySelect</i> , 2019, 4, 10447-10451.	1.5	6
90	Catalytic Oligomerization of Isobutyl Alcohol to Hydrocarbon Liquid Fuels over Acidic Zeolite Catalysts. <i>ChemistrySelect</i> , 2020, 5, 528-532.	1.5	6

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91	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
92	Role of Ga ³⁺ promoter in the direct synthesis of iso-butanol <i>via</i> syngas over a Kâ€”ZnO/ZnCr ₂ O ₄ catalyst. Catalysis Science and Technology, 2021, 11, 1077-1088.	4.1	5
93	From Single Metal to Bimetallic Sites: Enhanced Higher Hydrocarbons Yield of CO ₂ Hydrogenation over Bimetallic Catalysts. ChemistrySelect, 2021, 6, 5241-5247.	1.5	5
94	Novel Three-component Zeolite Capsule Catalyst for Direct Synthesis of Isoparaffin. Journal of the Japan Petroleum Institute, 2009, 52, 216-217.	0.6	4
95	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
96	Silicalite-1 Encapsulated Fe Particles over an Inâ€”situ Crystal Process for Syngas to Gasoline with Low CO ₂ Selectivity. ChemistrySelect, 2018, 3, 13632-13637.	1.5	3
97	Propane Aromatization Tuned by Tailoring Cr Modified Ga/ZSMâ€”5 Catalysts. ChemCatChem, 2021, 13, 3601-3610.	3.7	3
98	Resistance against Carbon Deposition via Controlling Spatial Distance of Catalytic Components in Methane Dehydroaromatization. Catalysts, 2021, 11, 148.	3.5	3
99	Silicalite-1 encapsulated rhodium nanoparticles for hydroformylation of 1-hexene. Catalysis Today, 2023, 410, 150-156.	4.4	3
100	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
101	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