Noritatsu Tsubaki

List of Publications by Year
in descending order

263 papers	10,491 citations	34105 52 h-index	53230 85 g-index
266 all docs	266 docs citations	266 times ranked	6622 citing authors

#	Article	IF	Citations
1	Integrated tuneable synthesis of liquid fuels via Fischerâ€“Tropsch technology. Nature Catalysis, 2018, 1, 787-793.	34.4	300
2	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
3	A Core/Shell Catalyst Produces a Spatially Confined Effect and Shape Selectivity in a Consecutive Reaction. Angewandte Chemie - International Edition, 2008, 47, 353-356.	13.8	239
4	Significant Advances in C1 Catalysis: Highly Efficient Catalysts and Catalytic Reactions. ACS Catalysis, 2019, 9, 3026-3053.	11.2	238
5	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
6	Catalysis Chemistry of Dimethyl Ether Synthesis. ACS Catalysis, 2014, 4, 3346-3356.	11.2	232
7	Confined small-sized cobalt catalysts stimulate carbon-chain growth reversely by modifying ASF law of Fischerâ€“Tropsch synthesis. Nature Communications, 2018, 9, 3250.	12.8	186
8	Recent progress for direct synthesis of dimethyl ether from syngas on the heterogeneous bifunctional hybrid catalysts. Applied Catalysis B: Environmental, 2017, 217, 494-522.	20.2	181
9	One-pass selective conversion of syngas to <i>para</i>-xylene. Chemical Science, 2017, 8, 7941-7946.	7.4	154
10	Promotional effect of La2O3 and CeO2 on Ni/Î³-Al2O3 catalysts for CO2 reforming of CH4. Applied Catalysis A: General, 2010, 385, 92-100.	4.3	147
11	Recent advances in direct catalytic hydrogenation of carbon dioxide to valuable C₂₊ hydrocarbons. Journal of Materials Chemistry A, 2018, 6, 23244-23262.	10.3	144
12	Confinement Effect of Carbon Nanotubes: Copper Nanoparticles Filled Carbon Nanotubes for Hydrogenation of Methyl Acetate. ACS Catalysis, 2012, 2, 1958-1966.	11.2	138
13	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
14	Effects of the surface adsorbed oxygen species tuned by rare-earth metal doping on dry reforming of methane over Ni/ZrO2 catalyst. Applied Catalysis B: Environmental, 2020, 264, 118522.	20.2	136
15	A New Method of Low-Temperature Methanol Synthesis. Journal of Catalysis, 2001, 197, 224-227.	6.2	130
16	One-step synthesis of Hâ€“Î² zeolite-enwrapped Co/Al2O3 Fischerâ€“Tropsch catalyst with high spatial selectivity. Journal of Catalysis, 2009, 265, 26-34.	6.2	126
17	Monodispersed Hollow SO₃H-Functionalized Carbon/Silica as Efficient Solid Acid Catalyst for Esterification of Oleic Acid. ACS Applied Materials & Interfaces, 2015, 7, 26767-26775.	8.0	124
18	Multiple-Functional Capsule Catalysts: A Tailor-Made Confined Reaction Environment for the Direct Synthesis of Middle Isoparaffins from Syngas. Chemistry - A European Journal, 2006, 12, 8296-8304.	3.3	121

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19	Designing a Capsule Catalyst and Its Application for Direct Synthesis of Middle Isoparaffins. Langmuir, 2005, 21, 1699-1702.	3.5	120
20	Effect of catalytic site position: Nickel nanocatalyst selectively loaded inside or outside carbon nanotubes for methane dry reforming. Fuel, 2013, 108, 430-438.	6.4	120
21	Direct Synthesis of Ethanol from Dimethyl Ether and Syngas over Combined Hâ€Mordenite and Cu/ZnO Catalysts. ChemSusChem, 2010, 3, 1192-1199.	6.8	118
22	New Synthesis Method of Ethanol from Dimethyl Ether with a Synergic Effect between the Zeolite Catalyst and Metallic Catalyst. Energy & Fuels, 2009, 23, 2843-2844.	5.1	107
23	Tandem catalytic synthesis of light isoparaffin from syngas via Fischerâ€“Tropsch synthesis by newly developed coreâ€“shell-like zeolite capsule catalysts. Catalysis Today, 2013, 215, 29-35.	4.4	106
24	Direct conversion of CO2 to aromatics with high yield via a modified Fischer-Tropsch synthesis pathway. Applied Catalysis B: Environmental, 2020, 269, 118792.	20.2	106
25	Highly-Dispersed Metallic Ru Nanoparticles Sputtered on H-Beta Zeolite for Directly Converting Syngas to Middle Isoparaffins. ACS Catalysis, 2014, 4, 1-8.	11.2	98
26	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
27	Direct and Oriented Conversion of CO₂ into Valueâ€Added Aromatics. Chemistry - A European Journal, 2019, 25, 5149-5153.	3.3	89
28	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
29	De-NOx in alternative lean/rich atmospheres on La1âˆ’xSrxCoO3 perovskites. Energy and Environmental Science, 2011, 4, 3351.	30.8	87
30	Facilely Synthesized H-Mordenite Nanosheet Assembly for Carbonylation of Dimethyl Ether. ACS Applied Materials & Interfaces, 2015, 7, 8398-8403.	8.0	86
31	Methane reforming with carbon dioxide over mesoporous nickelâ€“alumina composite catalyst. Chemical Engineering Journal, 2013, 221, 25-31.	12.7	85
32	Metal 3D printing technology for functional integration of catalytic system. Nature Communications, 2020, 11, 4098.	12.8	82
33	Preparation, characterization and reaction performance of H-ZSM-5/cobalt/silica capsule catalysts with different sizes for direct synthesis of isoparaffins. Applied Catalysis A: General, 2007, 329, 99-105.	4.3	78
34	Carbon dioxide reforming of methane over Ni nanoparticles incorporated into mesoporous amorphous ZrO 2 matrix. Fuel, 2015, 147, 243-252.	6.4	78
35	Ordered mesoporous alumina-supported bimetallic Pdâ€“Ni catalysts for methane dry reforming reaction. Catalysis Science and Technology, 2016, 6, 6542-6550.	4.1	73
36	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

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37	Direct CO2 hydrogenation to light olefins by suppressing CO by-product formation. Fuel Processing Technology, 2019, 196, 106174.	7.2	69
38	Direct Conversion of CO₂ to Ethanol Boosted by Intimacy-Sensitive Multifunctional Catalysts. ACS Catalysis, 2021, 11, 11742-11753.	11.2	69
39	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
40	Controllable encapsulation of cobalt clusters inside carbon nanotubes as effective catalysts for Fischerâ€"Tropsch synthesis. Catalysis Today, 2013, 215, 24-28.	4.4	66
41	A double-shell capsule catalyst with coreâ€"shell-like structure for one-step exactly controlled synthesis of dimethyl ether from CO2 containing syngas. Catalysis Today, 2011, 171, 229-235.	4.4	65
42	Freezing copper as a noble metalâ€"like catalyst for preliminary hydrogenation. Science Advances, 2018, 4, eaau3275.	10.3	64
43	Highly Ordered Mesoporous Fe₂O₃â€"ZrO₂ Bimetal Oxides for an Enhanced CO Hydrogenation Activity to Hydrocarbons with Their Structural Stability. ACS Catalysis, 2017, 7, 5955-5964.	11.2	63
44	Effect of H2O on Cu-based catalyst in one-step slurry phase dimethyl ether synthesis. Fuel Processing Technology, 2009, 90, 446-451.	7.2	60
45	Effects of Fe dopants and residual carbonates on the catalytic activities of the perovskite-type La0.7Sr0.3Co1â^'Fe O3 NO storage catalyst. Applied Catalysis B: Environmental, 2014, 146, 24-34.	20.2	60
46	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
47	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
48	Continuous Low-Temperature Methanol Synthesis from Syngas Using Alcohol Promoters. Energy & Fuels, 2003, 17, 817-821.	5.1	58
49	Cation modulating electrocatalyst derived from bimetallic metalâ€"organic frameworks for overall water splitting. Journal of Materials Chemistry A, 2017, 5, 6170-6177.	10.3	58
50	Tuning interaction between cobalt catalysts and nitrogen dopants in carbon nanospheres to promote Fischer-Tropsch synthesis. Applied Catalysis B: Environmental, 2019, 248, 73-83.	20.2	58
51	Achieving efficient and robust catalytic reforming on dual-sites of Cu species. Chemical Science, 2019, 10, 2578-2584.	7.4	56
52	H-type zeolite coated iron-based multiple-functional catalyst for direct synthesis of middle isoparaffins from syngas. Applied Catalysis A: General, 2011, 394, 195-200.	4.3	55
53	Development of bimodal cobalt catalysts for Fischerâ€"Tropsch synthesis. Catalysis Today, 2004, 93-95, 55-63.	4.4	53
54	Pore diffusion simulation model of bimodal catalyst for Fischer-Tropsch synthesis. AICHE Journal, 2005, 51, 2068-2076.	3.6	52

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55	Surface Impregnation Combustion Method to Prepare Nanostructured Metallic Catalysts without Further Reduction: As-Burnt Co/SiO₂ Catalysts for Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2011, 1, 1225-1233.	11.2	52
56	A brand new zeolite catalyst for carbonylation reaction. Chemical Communications, 2019, 55, 1048-1051.	4.1	52
57	Facile synthesis of H-type zeolite shell on a silica substrate for tandem catalysis. Chemical Communications, 2012, 48, 1263-1265.	4.1	51
58	Methane decomposition and carbon deposition over Ni/ZrO2 catalysts: Comparison of amorphous, tetragonal, and monoclinic zirconia phase. International Journal of Hydrogen Energy, 2019, 44, 17887-17899.	7.1	51
59	A Kinetic Study on Biomass Fast Catalytic Pyrolysis. Energy & Fuels, 2004, 18, 1865-1869.	5.1	50
60	Mechanistic study of a new low-temperature methanol synthesis on Cu/MgO catalysts. Applied Catalysis A: General, 2005, 288, 126-133.	4.3	50
61	Study on the preparation of Cu/ZnO catalyst by solâ€“gel auto-combustion method and its application for low-temperature methanol synthesis. Applied Catalysis A: General, 2011, 401, 46-55.	4.3	49
62	Ternary copperâ€“cobaltâ€“cerium catalyst for the production of ethanol and higher alcohols through CO hydrogenation. Applied Catalysis A: General, 2016, 514, 14-23.	4.3	49
63	Activating and optimizing the MoS2@MoO3 S-scheme heterojunction catalyst through interface engineering to form a sulfur-rich surface for photocatalyst hydrogen evolution. Chemical Engineering Journal, 2022, 438, 135238.	12.7	49
64	Design of ultra-active iron-based Fischer-Tropsch synthesis catalysts over spherical mesoporous carbon with developed porosity. Chemical Engineering Journal, 2018, 334, 714-724.	12.7	48
65	Selective Synthesis of Middle Isoparaffins via a Two-Stage Fischerâˆ’Tropsch Reaction:Â Activity Investigation for a Hybrid Catalyst. Industrial & Engineering Chemistry Research, 2005, 44, 769-775.	3.7	47
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	Nitrogen-rich mesoporous carbon supported iron catalyst with superior activity for Fischer-Tropsch synthesis. Carbon, 2018, 130, 304-314.	10.3	47
68	Continuous synthesis process of methanol at low temperature from syngas using alcohol promoters. Catalysis Communications, 2001, 2, 213-217.	3.3	45
69	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
70	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
71	Synthesis of isoalkanes over Feâ€“Znâ€“Zr/HY composite catalyst through carbon dioxide hydrogenation. Catalysis Communications, 2007, 8, 1711-1714.	3.3	43
72	Design and Modification of Zeolite Capsule Catalyst, A Confined Reaction Field, and its Application in One-Step Isoparaffin Synthesis from Syngas. Energy & Fuels, 2008, 22, 1463-1468.	5.1	43

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73	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
74	Novel Ethanol Synthesis Method via C1 Chemicals without Any Agriculture Feedstocks. Industrial & Engineering Chemistry Research, 2010, 49, 5485-5488.	3.7	42
75	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
76	Selective formation of linear-alpha olefins (LAOs) by CO2 hydrogenation over bimetallic Fe/Co-Y catalyst. Catalysis Communications, 2019, 130, 105759.	3.3	42
77	Low-temperature direct conversion of methane to methanol over carbon materials supported Pd-Au nanoparticles. Catalysis Today, 2020, 339, 48-53.	4.4	42
78	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
79	Synthesis of novel intumescent flame retardant containing phosphorus, nitrogen and boron and its application in polyethylene. Polymer Bulletin, 2015, 72, 2967-2978.	3.3	41
80	A New Low-Temperature Synthesis Route of Methanol:â€‰ Catalytic Effect of the Alcoholic Solvent. Energy & Fuels, 2002, 16, 83-86.	5.1	40
81	Promotional SMSI Effect on Supported Palladium Catalysts for Methanol Synthesis. Topics in Catalysis, 2003, 22, 325-335.	2.8	40
82	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
83	Nanoparticle modified Ni-based bimodal pore catalysts for enhanced CO₂methanation. RSC Advances, 2014, 4, 64617-64624.	3.6	40
84	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
85	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
86	Recent advances in the routes and catalysts for ethanol synthesis from syngas. Chemical Society Reviews, 2022, 51, 5606-5659.	38.1	40
87	Product control in Fischerâ€"Tropsch synthesis. Fuel Processing Technology, 2000, 62, 173-186.	7.2	38
88	The role of different state ZnO over non-stoichiometric Znâ€"Cr spinel catalysts for isobutanol synthesis from syngas. Applied Catalysis A: General, 2017, 536, 57-66.	4.3	38
89	Beyond Cars: Fischerâ€Tropsch Synthesis for Nonâ€Automotive Applications. ChemCatChem, 2019, 11, 1412-1424.	3.7	38
90	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

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91	Spinel-structure catalyst catalyzing CO₂ hydrogenation to full spectrum alkenes with an ultra-high yield. Chemical Communications, 2020, 56, 9372-9375.	4.1	38
92	A solâ€“gel auto-combustion method to prepare Cu/ZnO catalysts for low-temperature methanol synthesis. Catalysis Science and Technology, 2012, 2, 2569.	4.1	37
93	Insight into solvent-free synthesis of MOR zeolite and its laboratory scale production. Microporous and Mesoporous Materials, 2019, 280, 187-194.	4.4	37
94	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
95	Spatially separated catalytic sites supplied with the CdSâ€“MoS₂â€“In₂O₃ ternary dumbbell S-scheme heterojunction for enhanced photocatalytic hydrogen production. Journal of Materials Chemistry A, 2022, 10, 10715-10728.	10.3	37
96	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
97	Ultra-high thermal stability of sputtering reconstructed Cu-based catalysts. Nature Communications, 2021, 12, 7209.	12.8	36
98	Preparation of alumina?silica bimodal pore catalysts for Fischer-Tropsch synthesis. Catalysis Letters, 2005, 99, 193-198.	2.6	35
99	Direct syngas conversion to liquefied petroleum gas: Importance of a multifunctional metal-zeolite interface. Applied Energy, 2018, 209, 1-7.	10.1	35
100	A facile ethanol fuel synthesis from dimethyl ether and syngas over tandem combination of Cu-doped HZSM35 with Cu-Zn-Al catalyst. Chemical Engineering Journal, 2017, 316, 832-841.	12.7	34
101	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
102	Zeolitic Imidazolate Framework-67-Derived P-Doped Hollow Porous Co₃O₄ as a Photocatalyst for Hydrogen Production from Water. ACS Applied Materials & Interfaces, 2021, 13, 50996-51007.	8.0	34
103	Filter and buffer-pot confinement effect of hollow sphere catalyst for promoted activity and enhanced selectivity. Journal of Materials Chemistry A, 2013, 1, 5670.	10.3	33
104	Designing a novel Niâ€“Al2O3â€“SiC catalyst with a stereo structure for the combined methane conversion process to effectively produce syngas. Catalysis Today, 2016, 265, 36-44.	4.4	33
105	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
106	Efficient and New Production Methods of Chemicals and Liquid Fuels by Carbon Monoxide Hydrogenation. ACS Omega, 2020, 5, 49-56.	3.5	33
107	Selective Conversion of CO₂ into <i>para</i>â€Xylene over a ZnCr₂O₄â€ZSMâ€5 Catalyst. ChemSusChem, 2020, 13, 6541-6545.	6.8	33
108	Combining wet impregnation and dry sputtering to prepare highly-active CoPd/H-ZSM5 ternary catalysts applied for tandem catalytic synthesis of isoparaffins. Catalysis Science and Technology, 2014, 4, 1260.	4.1	32

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109	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
110	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
111	Bifunctional Capsule Catalyst of Al₂O₃@Cu with Strengthened Dehydration Reaction Field for Direct Synthesis of Dimethyl Ether from Syngas. Industrial & Engineering Chemistry Research, 2019, 58, 22905-22911.	3.7	31
112	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
113	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
114	One-Pot Transformation of Cellulose to Sugar Alcohols over Acidic Metal Phosphates Combined with Ru/C. Industrial & Engineering Chemistry Research, 2014, 53, 12655-12664.	3.7	30
115	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
116	Enhancing catalytic performance of activated carbon supported Rh catalyst on heterogeneous hydroformylation of 1-hexene via introducing surface oxygen-containing groups. Applied Catalysis A: General, 2016, 527, 53-59.	4.3	30
117	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
118	Selective oxidation of dimethyl ether to methyl formate over trifunctional MoO3â€"SnO2 catalyst under mild conditions. Green Chemistry, 2013, 15, 1501.	9.0	29
119	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
120	Dimethyl ether carbonylation to methyl acetate over highly crystalline zeolite seed-derived ferrierite. Catalysis Science and Technology, 2018, 8, 3060-3072.	4.1	29
121	Thermocatalytic hydrogenation of <scp>CO₂</scp> into aromatics by tailorâ€made catalysts: Recent advancements and perspectives. EcoMat, 2021, 3, e12080.	11.9	29
122	Highly Efficient Alcohol Oxidation on Nanoporous VSBâ€5 Nickel Phosphate Catalyst Functionalized by NaOH Treatment. ChemCatChem, 2011, 3, 684-689.	3.7	28
123	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
124	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
125	Copperâ€"iron supported bimodal pore catalyst and its application for higher alcohols synthesis. Catalysis Today, 2014, 234, 278-284.	4.4	27
126	Tandem catalytic synthesis of benzene from CO₂and H₂. Catalysis Science and Technology, 2017, 7, 2695-2699.	4.1	27

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127	Topologically immobilized catalysis centre for long-term stable carbon dioxide reforming of methane. Chemical Science, 2019, 10, 3701-3705.	7.4	27
128	Urea-derived Cu/ZnO catalyst being dried by supercritical CO2 for low-temperature methanol synthesis. Fuel, 2020, 268, 117213.	6.4	27
129	Heteroatom doped iron-based catalysts prepared by urea self-combustion method for efficient CO2 hydrogenation. Fuel, 2020, 276, 118102.	6.4	27
130	A New Preparation Method of Bimodal Catalyst Support and Its Application in Fischerâ€"Tropsch Synthesis. Topics in Catalysis, 2003, 26, 129-137.	2.8	26
131	The mechanism of higher alcohol formation on ZrO2-based catalyst from syngas. Korean Journal of Chemical Engineering, 2015, 32, 406-412.	2.7	26
132	SO3H-modified petroleum coke derived porous carbon as an efficient solid acid catalyst for esterification of oleic acid. Journal of Porous Materials, 2016, 23, 263-271.	2.6	26
133	Synthesis of Polyoxymethylene Dimethyl Ethers from Dimethyl Ether Direct Oxidation over Carbonâ€Based Catalysts. ChemCatChem, 2018, 10, 273-279.	3.7	26
134	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
135	A Capsule Catalyst with a Zeolite Membrane Prepared by Direct Liquid Membrane Crystallization. ChemSusChem, 2012, 5, 862-866.	6.8	25
136	Oriented synthesis of target products in liquid-phase tandem reaction over a tripartite zeolite capsule catalyst. Chemical Science, 2013, 4, 3958.	7.4	25
137	Tuning interactions between zeolite and supported metal by physical-sputtering to achieve higher catalytic performances. Scientific Reports, 2013, 3, 2813.	3.3	25
138	Ruthenium promoted cobalt catalysts prepared by an autocombustion method directly used for Fischerâ€"Tropsch synthesis without further reduction. Catalysis Science and Technology, 2014, 4, 3099.	4.1	25
139	Nitrogen-doped graphene nanosheets as metal-free catalysts for dehydrogenation reaction of ethanol. RSC Advances, 2016, 6, 13450-13455.	3.6	25
140	Mnâ€"Fe nanoparticles on a reduced graphene oxide catalyst for enhanced olefin production from syngas in a slurry reactor. RSC Advances, 2018, 8, 14854-14863.	3.6	25
141	Mixed Alcohol Synthesis from Syngas on Kâ€"Coâ€"Mo/C Catalyst Prepared by a Solâ€"Gel Method. Topics in Catalysis, 2009, 52, 789-794.	2.8	24
142	Solâ€"gel auto-combustion synthesis of Niâ€"CexZr1âˆ'xO2 catalysts for carbon dioxide reforming of methane. RSC Advances, 2013, 3, 22285.	3.6	24
143	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
144	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

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145	The promoting effect of alcohols in a new process of low-temperature synthesis of methanol from CO/CO2/H2. Fuel, 2002, 81, 125-127.	6.4	22
146	Highly Dispersed Mo₂C Anchored on N,Pâ€Codoped Graphene as Efficient Electrocatalyst for Hydrogen Evolution Reaction. ChemCatChem, 2018, 10, 2300-2304.	3.7	22
147	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
148	MoP@MoO₃S-scheme heterojunction<i>in situ</i>construction with phosphating MoO₃for high-efficient photocatalytic hydrogen production. Nanoscale, 2021, 13, 18507-18519.	5.6	22
149	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
150	Designing a hierarchical nanosheet ZSM-35 zeolite to realize more efficient ethanol synthesis from dimethyl ether and syngas. Catalysis Today, 2020, 343, 206-214.	4.4	21
151	A New Method of Low Temperature Methanol Synthesis. Catalysis Surveys From Asia, 2009, 13, 147-163.	2.6	20
152	A Solidâ€State Combustion Method towards Metallic Cuâ€“ZnO Catalyst without Further Reduction and its Application to Lowâ€Temperature Methanol Synthesis. ChemCatChem, 2012, 4, 863-871.	3.7	20
153	Surface impregnation combustion method to prepare nanostructured metallic catalysts without further reduction: As-burnt Cuâ€“ZnO/SiO2 catalyst for low-temperature methanol synthesis. Catalysis Today, 2012, 185, 54-60.	4.4	20
154	Mesoporous SiO2-confined La0.7Sr0.3CoO3 perovskite nanoparticles: an efficient NOx adsorber for lean-burn exhausts. Catalysis Science and Technology, 2013, 3, 1493.	4.1	20
155	Design and Synthesis of Powerful Capsule Catalysts Aimed at Applications in C1 Chemistry and Biomass Conversion. Chemical Record, 2018, 18, 4-19.	5.8	20
156	Highly selective synthesis of methanol from methane over carbon materials supported Pd-Au nanoparticles under mild conditions. Catalysis Today, 2020, 352, 104-110.	4.4	20
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