

Zhong Li

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Directional Oxygen Functionalization by Defect in Different Metamorphic Grade Coal-Derived Carbon Materials for Sodium Storage. <i>Energy and Environmental Materials</i> , 2022, 5, 313-320.	7.3	30
2	Surface reconstruction induced highly efficient N-doped carbon nanosheet supported copper cluster catalysts for dimethyl carbonate synthesis. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120718.	10.8	18
3	Highly active catalysis of methanol oxidative carbonylation over nano Cu ₂ O supported on micropore-rich mesoporous carbon. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120890.	10.8	22
4	Boosting CO ₂ hydrogenation performance for light olefin synthesis over GaZrOx combined with SAPO-34. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121042.	10.8	30
5	The confinement effects of ordered mesoporous carbon on copper nanoparticles for methanol oxidative carbonylation. <i>New Journal of Chemistry</i> , 2022, 46, 2980-2988.	1.4	2
6	Enhanced surface capacitive sodium storage by pores regulation in carbon/carbon composite nanofibers. <i>Microporous and Mesoporous Materials</i> , 2022, 332, 111706.	2.2	7
7	Selective conversion of methanol to aromatics with superior catalytic stability by relay catalysis over quadruple ZSM-5 sequence beds with gradient-increasing acidity. <i>Fuel</i> , 2022, 315, 123241.	3.4	6
8	CoZn-ZIF-derived carbon-supported Cu catalyst for methanol oxidative carbonylation to dimethyl carbonate. <i>New Journal of Chemistry</i> , 2022, 46, 7452-7463.	1.4	7
9	Mechanochemical Modification of Oxygen/Nitrogen Species on Surface of Hard Carbon for Improved Sodium Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 23-30.	3.2	9
10	Strengthening catalytic synergy of two function-complementary ZSM-5 by optimizing their spatial organizations in fixed-bed reactor to boost methanol aromatization. <i>Microporous and Mesoporous Materials</i> , 2022, 337, 111953.	2.2	3
11	Directional modification of oxygen functional groups by N heteroatoms on soft/hard carbons for sodium storage. <i>Chemical Communications</i> , 2022, 58, 7317-7320.	2.2	9
12	In Situ Hydrothermal Synthesis of Metallic Bi Self-Deposited Bi ₂ SiO ₅ with Enhanced Photocatalytic CO ₂ Reduction Performance. <i>Solar Rrl</i> , 2022, 6, .	3.1	9
13	Highly active ternary oxide ZrCeZnOx combined with SAPO-34 zeolite for direct conversion of syngas into light olefins. <i>Catalysis Today</i> , 2021, 368, 118-125.	2.2	27
14	Effects of surface acid-base properties of ZrO ₂ on the direct synthesis of DMC from CO ₂ and methanol: A combined DFT and experimental study. <i>Chemical Engineering Science</i> , 2021, 229, 116018.	1.9	19
15	Controllable synthesis of ultra-tiny nano-ZSM-5 catalyst based on the control of crystal growth for methanol to hydrocarbon reaction. <i>Fuel Processing Technology</i> , 2021, 211, 106594.	3.7	14
16	A facile approach for fabricating highly active ZrCeZnO in combination with SAPO-34 for the conversion of syngas into light olefins. <i>Applied Surface Science</i> , 2021, 542, 148713.	3.1	13
17	Effects of preparation method and precipitant on Mn-Ga oxide in combination with SAPO-34 for syngas conversion into light olefins. <i>New Journal of Chemistry</i> , 2021, 45, 7967-7976.	1.4	11
18	Carbon-Supported Nitrogen-Doped Graphene-Wrapped Copper Nanoparticles: An Effective Catalyst for the Oxidative Carbonylation of Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2944-2953.	1.8	13

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19	The Influence of Iron Group Promoters on the Synthesis of Dimethyl Carbonate over CuY Catalysts Prepared via Modified Vapor Impregnation Method. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, 705-712.	0.1	2
20	Precisely regulating acid density and types to promote the stable two-step conversion of methanol to aromatics via light hydrocarbons. <i>Microporous and Mesoporous Materials</i> , 2021, 320, 111103.	2.2	8
21	Catalytic synergy between the low Si/Al ratio Zn/ZSM-5 and high Si/Al ratio HZSM-5 for high-performance methanol conversion to aromatics. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120098.	10.8	55
22	Syngas to Olefins over a CrMnGa/SAPO-34 Bifunctional Catalyst: Effect of Cr and Cr/Mn Ratio. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13214-13222.	1.8	14
23	Oxygen functionalization boosted sodium adsorption-intercalation in coal based needle coke. <i>Electrochimica Acta</i> , 2020, 329, 135127.	2.6	29
24	Defect formation-induced tunable evolution of oxygen functional groups for sodium storage in porous graphene. <i>Chemical Communications</i> , 2020, 56, 1089-1092.	2.2	27
25	Methanol synthesis from CO ₂ : a DFT investigation on Zn-promoted Cu catalyst. <i>Research on Chemical Intermediates</i> , 2020, 46, 1749-1769.	1.3	14
26	The selective and stable synthesis of aromatics from methanol via two-step route using light alkenes as intermediates. <i>Fuel</i> , 2020, 280, 118609.	3.4	15
27	An efficient strategy to improve the catalytic activity of CuY for oxidative carbonylation of methanol: Modification of NaY by H ₄ EDTA-NaOH sequential treatment. <i>Microporous and Mesoporous Materials</i> , 2020, 307, 110500.	2.2	7
28	Group 13 metal doped Cu/ZnO catalysts from phase pure precursors via an isomorphous substitution route: mechanistic insights into promotional effects for syngas hydrogenation to methanol. <i>Catalysis Science and Technology</i> , 2020, 10, 7386-7398.	2.1	14
29	Isomorphous substitution method to fabricating pure phase Al-doped zinc malachite: defects driven promotion improvement and enhanced synergy between Cu ²⁺ /ZnO. <i>ChemCatChem</i> , 2020, 12, 5697-5709.	1.8	5
30	Solution-combusted nanosized Ni-Al ₂ O ₃ catalyst for slurry CO methanation: effects of alkali/alkaline earth metal chlorides. <i>Journal of Materials Science</i> , 2020, 55, 16510-16521.	1.7	5
31	Evolution of the pore and framework structure of NaY zeolite during alkali treatment and its effect on methanol oxidative carbonylation over a CuY catalyst. <i>Journal of Chemical Research</i> , 2020, 44, 710-720.	0.6	5
32	Synthesis Gas Conversion to Lower Olefins over ZnCr ₂ SAPO-34 Catalysts: Role of ZnO ²⁺ /ZnCr ₂ O ₄ Interface. <i>ChemCatChem</i> , 2020, 12, 4387-4395.	1.8	15
33	Role of metal cations in improving CuY zeolite performance for DMC synthesis: A theoretical study. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5832.	1.7	4
34	Development of mesoporous ZSM-5 zeolite with microporosity preservation through induced desilication. <i>Journal of Materials Science</i> , 2020, 55, 11870-11890.	1.7	24
35	Insight into the Selection of the Post-Treatment Strategy for ZSM-5 Zeolites for the Improvement of Catalytic Stability in the Conversion of Methanol to Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 11125-11138.	1.8	17
36	Fabrication of Few-Layer Graphene-Supported Copper Catalysts Using a Lithium-Promoted Thermal Exfoliation Method for Methanol Oxidative Carbonylation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30483-30493.	4.0	8

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37	Surface-Protection-Induced Controllable Restructuring of Pores and Acid Sites of the Nano-ZSM-5 Catalyst and Its Influence on the Catalytic Conversion of Methanol to Hydrocarbons. <i>Langmuir</i> , 2020, 36, 3737-3749.	1.6	16
38	Insight into the positive effect of Cu ₀ /Cu ⁺ ratio on the stability of Cu-ZnO-CeO ₂ catalyst for syngas hydrogenation. <i>Applied Catalysis A: General</i> , 2020, 594, 117466.	2.2	54
39	Insights into the Surface Oxygen Functional Group-Driven Fast and Stable Sodium Adsorption on Carbon. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6991-7000.	4.0	63
40	High catalytic activity of CuY catalysts prepared by high temperature anhydrous interaction for the oxidative carbonylation of methanol. <i>RSC Advances</i> , 2020, 10, 3293-3300.	1.7	7
41	Highly dispersed Cu supported on mesoporous Al ₂ O ₃ for oxidative carbonylation of methanol to dimethyl carbonate. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5644.	1.7	7
42	Carbon nanotube-supported Cu-based catalysts for oxidative carbonylation of methanol to methyl carbonate: effect of nanotube pore size. <i>Catalysis Science and Technology</i> , 2020, 10, 2615-2626.	2.1	19
43	Oxygen vacancies confined in conjugated polyimide for promoted visible-light photocatalytic oxidative coupling of amines. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118964.	10.8	54
44	Oriented Isomorphous Substitution: An Efficient and Alternative Route to Fabricate the Zn Rich Phase Pure (Cu _{1-x} Zn _x) ₂ (OH) ₂ CO ₃ Precursor Catalyst for Methanol Synthesis. <i>ChemCatChem</i> , 2020, 12, 2040-2049.	1.8	11
45	Controllable synthesis of nano-ZSM-5 catalysts with large amount and high strength of acid sites for conversion of methanol to hydrocarbons. <i>Microporous and Mesoporous Materials</i> , 2019, 273, 122-132.	2.2	27
46	Sodium Storage in Coal/Biomass-Derived Carbon/Carbon 3D Networks. <i>ChemElectroChem</i> , 2019, 6, 4541-4544.	1.7	16
47	Highly efficient synthesis of dimethyl carbonate over copper catalysts supported on resin-derived carbon microspheres. <i>Chemical Engineering Science</i> , 2019, 207, 1060-1071.	1.9	20
48	Carbon Deposition Behavior of Ni Catalyst Prepared by Combustion Method in Slurry Methanation Reaction. <i>Catalysts</i> , 2019, 9, 570.	1.6	10
49	Hierarchical Porous Carbon-Supported Copper Nanoparticles as an Efficient Catalyst for the Dimethyl Carbonate Synthesis. <i>Catalysis Letters</i> , 2019, 149, 3184-3193.	1.4	16
50	Excellent selectivity for direct conversion of syngas to light olefins over a Mn-Ga oxide and SAPO-34 bifunctional catalyst. <i>Catalysis Science and Technology</i> , 2019, 9, 5577-5581.	2.1	33
51	Silicalite-1 Derivational Desilication-Recrystallization to Prepare Hollow Nano-ZSM-5 and Highly Mesoporous Micro-ZSM-5 Catalyst for Methanol to Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2146-2158.	1.8	56
52	Conjugated HCl-doped polyaniline for photocatalytic oxidative coupling of amines under visible light. <i>Catalysis Science and Technology</i> , 2019, 9, 753-761.	2.1	40
53	High gravimetric and volumetric sodium storage in a functionalized coal-based microcrystal/CNT binder-free electrode. <i>Chemical Communications</i> , 2019, 55, 7954-7957.	2.2	20
54	Si/Al ratio induced structure evolution during desilication-recrystallization of silicalite-1 to synthesize nano-ZSM-5 catalyst for MTH reaction. <i>Fuel Processing Technology</i> , 2019, 194, 106122.	3.7	19

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55	The promotion and stabilization effects of surface nitrogen containing groups of CNT on Cu-based nanoparticles in the oxidative carbonylation reaction. <i>Applied Catalysis A: General</i> , 2019, 579, 18-29.	2.2	16
56	Pseudocapacitive Na ⁺ Insertion in TiO ₂ Channels of TiO ₂ @C Nanofibers with High Rate and Ultrastable Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17416-17424.	4.0	32
57	Adsorption dominant sodium storage in three-dimensional coal-based graphite microcrystal/graphene composites. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7565-7572.	5.2	38
58	Enhanced sodium storage via the hetero-interface effect in BiOCl/TiO ₂ p-n junctions. <i>Chemical Communications</i> , 2019, 55, 4111-4114.	2.2	18
59	Simple strategy synthesizing stable CuZnO/SiO ₂ methanol synthesis catalyst. <i>Journal of Catalysis</i> , 2019, 372, 163-173.	3.1	34
60	Facile creation of hierarchical nano-sized ZSM-5 with a large external surface area via desiccation-recrystallization of silicalite-1 for conversion of methanol to hydrocarbons. <i>Catalysis Science and Technology</i> , 2019, 9, 6647-6658.	2.1	13
61	New Theoretical Insights into the Origin of Highly Effective Dispersion of Cu-Based Catalysts As-Synthesized Using Mg/Zn Doped Malachite as Precursors. <i>ChemistrySelect</i> , 2019, 4, 13271-13279.	0.7	3
62	A DFT study of dimethyl carbonate synthesis from methanol and CO ₂ on zirconia: Effect of crystalline phases. <i>Computational Materials Science</i> , 2019, 159, 210-221.	1.4	13
63	Enhanced electronic conductivity and sodium-ion adsorption in N/S co-doped ordered mesoporous carbon for high-performance sodium-ion battery anode. <i>Journal of Power Sources</i> , 2019, 412, 606-614.	4.0	76
64	Direct transformation of syngas to lower olefins synthesis over hybrid ZnAl ₂ O ₃ /SAPO-34 catalysts. <i>New Journal of Chemistry</i> , 2018, 42, 4419-4431.	1.4	47
65	Graphene supported Cu nanoparticles as catalysts for the synthesis of dimethyl carbonate: Effect of carbon black intercalation. <i>Molecular Catalysis</i> , 2018, 445, 257-268.	1.0	27
66	Remarkable activity of nitrogen-doped hollow carbon spheres encapsulated Cu on synthesis of dimethyl carbonate: Role of effective nitrogen. <i>Applied Surface Science</i> , 2018, 436, 803-813.	3.1	25
67	Nitrogen-doped graphene supported copper catalysts for methanol oxidative carbonylation: Enhancement of catalytic activity and stability by nitrogen species. <i>Carbon</i> , 2018, 130, 185-195.	5.4	89
68	Sacrificial Carbon Strategy toward Enhancement of Slurry Methanation Activity and Stability over Ni-Zr/SiO ₂ Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4798-4806.	1.8	13
69	Influence of oxygen-containing groups of activated carbon aerogels on copper/activated carbon aerogels catalyst and synthesis of dimethyl carbonate. <i>Journal of Materials Science</i> , 2018, 53, 1833-1850.	1.7	20
70	CO hydrogenation combined with water-gas-shift reaction for synthetic natural gas production: a thermodynamic and experimental study. <i>International Journal of Coal Science and Technology</i> , 2018, 5, 439-451.	2.7	16
71	Codoping Nitrogen/Sulfur through a Solid-State Reaction to Enhance the Electrochemical Performance of Anatase TiO ₂ Nanoparticles as a Sodium-Ion Battery Anode. <i>ChemElectroChem</i> , 2018, 5, 316-321.	1.7	11
72	Oxygen Vacancy Promoting Dimethyl Carbonate Synthesis from CO ₂ and Methanol over Zr-Doped CeO ₂ Nanorods. <i>ACS Catalysis</i> , 2018, 8, 10446-10456.	5.5	370

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73	Effect of carbon support on the catalytic performance of Cu-based nanoparticles for oxidative carbonylation of methanol. <i>Applied Surface Science</i> , 2018, 455, 696-704.	3.1	21
74	Cu nanoparticles encapsulated with hollow carbon spheres for methanol oxidative carbonylation: Tuning of the catalytic properties by particle size control. <i>Applied Surface Science</i> , 2018, 459, 707-715.	3.1	24
75	Synthesis of lower olefins from syngas over Zn/Al ₂ O ₃ –SAPO-34 hybrid catalysts: role of doped Zr and influence of the Zn/Al ₂ O ₃ ratio. <i>Catalysis Science and Technology</i> , 2018, 8, 3527-3538.	2.1	52
76	Pore fabrication of nano-ZSM-5 zeolite by internal desilication and its influence on the methanol to hydrocarbon reaction. <i>Fuel Processing Technology</i> , 2017, 155, 191-199.	3.7	58
77	Influence of fuel additives in the urea-nitrates solution combustion synthesis of Ni-Al ₂ O ₃ catalyst for slurry phase CO methanation. <i>Applied Catalysis A: General</i> , 2017, 534, 12-21.	2.2	31
78	Ordered mesoporous carbon-supported CoFe ₂ O ₄ composite with enhanced lithium storage properties. <i>Journal of Materials Science</i> , 2017, 52, 6265-6279.	1.7	14
79	Effect of ZSM-5 crystal size on its catalytic properties for conversion of methanol to gasoline. <i>Journal of Fuel Chemistry and Technology</i> , 2017, 45, 75-83.	0.9	9
80	Facile synthesis of nano-sized hollow ZSM-5 zeolites with rich mesopores in shell. <i>Microporous and Mesoporous Materials</i> , 2017, 250, 43-46.	2.2	34
81	Catalytic methanation in a slurry-bed reactor over Ni/SiO ₂ catalysts: improvement by ZrO ₂ and β -cyclodextrin addition. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 122, 525-538.	0.8	5
82	Direct synthesis of iso-butane from synthesis gas or CO ₂ over CuZnZrAl/Pd- β hybrid catalyst. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 974-982.	2.4	14
83	Effect of Cu location and dispersion on carbon sphere supported Cu catalysts for oxidative carbonylation of methanol to dimethyl carbonate. <i>Carbon</i> , 2017, 115, 363-374.	5.4	40
84	Synthesis of dimethyl carbonate on single Cu atom embedded in N-doped graphene: Effect of nitrogen species. <i>Molecular Catalysis</i> , 2017, 443, 1-13.	1.0	16
85	Direct synthesis of dimethyl carbonate from CO ₂ and methanol over CaO–CeO ₂ catalysts: the role of acid–base properties and surface oxygen vacancies. <i>New Journal of Chemistry</i> , 2017, 41, 12231-12240.	1.4	66
86	Fabrication of Hollow Mesoporous Nanosized ZSM-5 Catalyst with Superior Methanol-to-Hydrocarbons Performance by Controllable Desilication. <i>ChemCatChem</i> , 2017, 9, 4212-4224.	1.8	26
87	Fabrication of Yolk-Shell Cu@C Nanocomposites as High-Performance Catalysts in Oxidative Carbonylation of Methanol to Dimethyl Carbonate. <i>Nanoscale Research Letters</i> , 2017, 12, 481.	3.1	12
88	Density-functional theory study of dimethyl carbonate synthesis by methanol oxidative carbonylation on single-atom Cu ₁ /graphene catalyst. <i>Applied Surface Science</i> , 2017, 425, 291-300.	3.1	27
89	Catalytic performance of CO methanation over La-promoted Ni/Al ₂ O ₃ catalyst in a slurry-bed reactor. <i>Chemical Engineering Journal</i> , 2017, 313, 1548-1555.	6.6	69
90	Silica/titania composite-supported Ni catalysts for CO methanation: Effects of Ti species on the activity, anti-sintering, and anti-coking properties. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 561-572.	10.8	68

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91	Fabrication of a nano-sized ZSM-5 zeolite with intercrystalline mesopores for conversion of methanol to gasoline. <i>Journal of Energy Chemistry</i> , 2017, 26, 139-146.	7.1	50
92	Characterization and assessment of an enhanced CuY catalyst for oxidative carbonylation of methanol prepared by consecutive liquid-phase ion exchange and incipient wetness impregnation. <i>Fuel Processing Technology</i> , 2016, 152, 367-374.	3.7	15
93	Coeffect of Na ⁺ and Tetrapropylammonium (TPA ⁺) in Alkali Treatment on the Fabrication of Mesoporous ZSM-5 Catalyst for Methanol-to-Hydrocarbons Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 13040-13049.	1.8	28
94	The influence of the pore structure in ordered mesoporous carbon over the formation of Cu species and their catalytic activity towards the methanol oxidative carbonylation. <i>Journal of Materials Science</i> , 2016, 51, 5514-5528.	1.7	16
95	Effect of Particle Morphology for ZSM-5 Zeolite on the Catalytic Conversion of Methanol to Gasoline-Range Hydrocarbons. <i>Catalysis Letters</i> , 2016, 146, 1973-1983.	1.4	19
96	Effect of NH ₄ ⁺ exchange on CuY catalyst for oxidative carbonylation of methanol. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1403-1412.	6.9	11
97	Influence of surface oxygenated groups on the formation of active Cu species and the catalytic activity of Cu/AC catalyst for the synthesis of dimethyl carbonate. <i>Applied Surface Science</i> , 2016, 390, 68-77.	3.1	33
98	Ni-based catalysts prepared by impregnation combustion method for CO methanation in a slurry-bed reactor. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 151-157.	0.8	5
99	Factors controlling nanosized Ni ₂ O ₃ catalysts synthesized by solution combustion for slurry-phase CO methanation: the ratio of reducing valences to oxidizing valences in redox systems. <i>Catalysis Science and Technology</i> , 2016, 6, 7800-7811.	2.1	35
100	Catalytic methanation performance in a low-temperature slurry-bed reactor over Ni-ZrO ₂ catalyst: effect of the preparation method. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 759-768.	1.1	16
101	Effect of calcination temperature on catalytic performance of CuCe/AC catalysts for oxidative carbonylation of methanol. <i>Journal of Fuel Chemistry and Technology</i> , 2016, 44, 674-679.	0.9	6
102	Influence of Microwave Irradiation on the Structural Properties of Carbon-Supported Hollow Copper Nanoparticles and Their Effect on the Synthesis of Dimethyl Carbonate. <i>ChemCatChem</i> , 2016, 8, 861-871.	1.8	23
103	Slurry phase methanation of carbon monoxide over nanosized Ni-Al ₂ O ₃ catalysts prepared by microwave-assisted solution combustion. <i>Applied Catalysis A: General</i> , 2016, 510, 74-83.	2.2	32
104	Direct and generalized synthesis of carbon-based yolk-shell nanocomposites from metal-oleate precursor. <i>Chemical Engineering Journal</i> , 2016, 283, 1295-1304.	6.6	31
105	Methanation of carbon dioxide over Ni-M/ZrO ₂ (M=Fe, Co, Cu) catalysts: Effect of addition of a second metal. <i>Fuel Processing Technology</i> , 2015, 137, 204-211.	3.7	147
106	Investigation of the interaction between Cu(acac) ₂ and NH ₄ Y in the preparation of chlorine-free CuY catalysts for the oxidative carbonylation of methanol to a fuel additive. <i>RSC Advances</i> , 2015, 5, 102323-102331.	1.7	15
107	Effect of promoter Ce on the structure and catalytic performance of Ni/Al ₂ O ₃ catalyst for CO methanation in slurry-bed reactor. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 23, 250-258.	2.1	70
108	The growth of Ni _n clusters and their interaction with cubic, monoclinic, and tetragonal ZrO ₂ surfaces—a theoretical and experimental study. <i>RSC Advances</i> , 2015, 5, 59935-59945.	1.7	29

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109	Insights into the mechanisms of CO ₂ methanation on Ni(111) surfaces by density functional theory. <i>Applied Surface Science</i> , 2015, 351, 504-516.	3.1	157
110	Effect of ZrO ₂ on catalyst structure and catalytic methanation performance over Ni-based catalyst in slurry-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8833-8843.	3.8	29
111	A <i>DFT</i> study of <i>DMC</i> formation on <i>R</i> -doped <i>Cu</i> / <i>AC</i> surfaces. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 853-858.	1.0	8
112	Mechanism of microwave-induced carbothermic reduction and catalytic performance of Cu/activated carbon catalysts in the oxidative carbonylation of methanol. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1929-1939.	2.0	23
113	Influence of the surface oxygenated groups of activated carbon on preparation of a nano Cu/AC catalyst and heterogeneous catalysis in the oxidative carbonylation of methanol. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 95-105.	10.8	122
114	Structural and electronic properties of Cu-doped Zn ₅ (OH) ₆ (CO ₃) ₂ from first principles. <i>Journal of Materials Science</i> , 2015, 50, 6794-6807.	1.7	7
115	Ni/SBA-15 catalysts for CO methanation: effects of V, Ce, and Zr promoters. <i>RSC Advances</i> , 2015, 5, 96504-96517.	1.7	79
116	First-principles investigation on Cu/ZnO catalyst precursor: Energetic, structural and electronic properties of Zn-doped Cu ₂ (OH) ₂ CO ₃ . <i>Computational Materials Science</i> , 2015, 96, 1-9.	1.4	15
117	The catalytic methanation of coke oven gas over Ni-Ce/Al ₂ O ₃ catalysts prepared by microwave heating: Effect of amorphous NiO formation. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 18-30.	10.8	124
118	Surface Structure and Catalytic Performance of Ni-Fe Catalyst for Low-Temperature CO Hydrogenation. <i>Journal of Chemistry</i> , 2014, 2014, 1-7.	0.9	14
119	Surface reactions of CuCl ₂ and HY zeolite during the preparation of CuY catalyst for the oxidative carbonylation of methanol. <i>Chinese Journal of Catalysis</i> , 2014, 35, 134-139.	6.9	6
120	A theoretical investigation on the mechanism of dimethyl carbonate formation on Cu/AC catalyst. <i>Applied Catalysis A: General</i> , 2014, 472, 47-52.	2.2	44
121	Combustion Characteristics of Coal Gangue under an Atmosphere of Coal Mine Methane. <i>Energy & Fuels</i> , 2014, 28, 3688-3695.	2.5	46
122	Effect of environment around the active center Cu + species on the catalytic activity of CuY zeolites in dimethyl carbonate synthesis: A theoretical study. <i>Fuel Processing Technology</i> , 2014, 128, 310-318.	3.7	17
123	MoO ₃ /SO ₄ ²⁻ -TiO ₂ catalyst for transesterification of dimethyl carbonate with phenol. <i>Journal of Central South University</i> , 2014, 21, 1719-1724.	1.2	3
124	Synthesis of dimethyl carbonate over starch-based Carbon-supported Cu nanoparticles catalysts. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1734-1744.	6.9	18
125	A density functional theory investigation on the mechanism and kinetics of dimethyl carbonate formation on Cu ₂ O catalyst. <i>Journal of Computational Chemistry</i> , 2012, 33, 1101-1110.	1.5	41
126	Preparation of Cu+/SiO ₂ -ZrO ₂ catalysts for the oxidative carbonylation of methanol to dimethyl carbonate. <i>Journal of Fuel Chemistry and Technology</i> , 2011, 39, 282-286.	0.9	19

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127	Adsorption and dissociation of O ₂ on the Cu ₂ O(111) surface: Thermochemistry, reaction barrier. <i>Applied Surface Science</i> , 2011, 257, 4787-4794.	3.1	85
128	Preparation of Cu/ZnO/Al ₂ O ₃ catalyst under microwave irradiation for slurry methanol synthesis. <i>Frontiers of Chemical Engineering in China</i> , 2010, 4, 445-451.	0.6	7
129	Selective synthesis of mixed alcohols from syngas over catalyst Fe ₂ O ₃ /Al ₂ O ₃ in slurry reactor. <i>Fuel Processing Technology</i> , 2010, 91, 379-382.	3.7	26
130	Study on the formation and role of copper chloride hydroxide in the oxidative carbonylation of methanol to dimethyl carbonate. <i>Kinetics and Catalysis</i> , 2010, 51, 250-254.	0.3	5
131	Structure of CuCl/SiO ₂ -TiO ₂ Catalyst and Its Catalytic Properties for Oxidative Carbonylation of Methanol. <i>Chinese Journal of Catalysis</i> , 2010, 31, 683-688.	6.9	4
132	Preparation of Chlorine-Free Cu/AC Catalyst and Its Catalytic Properties for Vapor Phase Oxidative Carbonylation of Methanol. <i>Chinese Journal of Catalysis</i> , 2010, 31, 851-856.	6.9	16
133	Oxidative carbonylation of methanol to dimethyl carbonate over CuCl/SiO ₂ -TiO ₂ catalysts prepared by microwave heating: The effect of support composition. <i>Applied Catalysis A: General</i> , 2009, 366, 93-101.	2.2	42
134	Surface Structure and Catalytic Performance of CuCl/SiO ₂ -Al ₂ O ₃ Catalysts for Methanol Oxidative Carbonylation. <i>Chinese Journal of Catalysis</i> , 2008, 29, 643-648.	6.9	21
135	High selective catalyst CuCl/MCM-41 for oxidative carbonylation of methanol to dimethyl carbonate. <i>Applied Catalysis A: General</i> , 2001, 205, 85-92.	2.2	59
136	Studies of the interaction between CuCl and HY zeolite for preparing heterogeneous CuI catalyst. <i>Applied Catalysis A: General</i> , 2001, 209, 107-115.	2.2	59