## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Insights into the mechanisms of CO2 methanation on Ni(111) surfaces by density functional theory. Applied Surface Science, 2015, 351, 504-516.	6.1	157
2	Methanation of carbon dioxide over Ni–M/ZrO2 (M=Fe, Co, Cu) catalysts: Effect of addition of a second metal. Fuel Processing Technology, 2015, 137, 204-211.	7.2	147
3	The catalytic methanation of coke oven gas over Ni-Ce/Al2O3 catalysts prepared by microwave heating: Effect of amorphous NiO formation. Applied Catalysis B: Environmental, 2015, 164, 18-30.	20.2	124
4	Silica–Titania mixed Oxides: Si–O–Ti Connectivity, Coordination of Titanium, and Surface Acidic Properties. Catalysis Letters, 2008, 124, 185-194.	2.6	101
5	Modification of a magnetic carbon composite for ciprofloxacin adsorption. Journal of Environmental Sciences, 2016, 49, 179-188.	6.1	98
6	Nitrogen-doped graphene supported copper catalysts for methanol oxidative carbonylation: Enhancement of catalytic activity and stability by nitrogen species. Carbon, 2018, 130, 185-195.	10.3	89
7	Ni/SBA-15 catalysts for CO methanation: effects of V, Ce, and Zr promoters. RSC Advances, 2015, 5, 96504-96517.	3.6	79
8	Silica/titania composite-supported Ni catalysts for CO methanation: Effects of Ti species on the activity, anti-sintering, and anti-coking properties. Applied Catalysis B: Environmental, 2017, 201, 561-572.	20.2	68
9	Combustion Characteristics of Coal Gangue under an Atmosphere of Coal Mine Methane. Energy & Fuels, 2014, 28, 3688-3695.	5.1	46
10	A theoretical investigation on the mechanism of dimethyl carbonate formation on Cu/AC catalyst. Applied Catalysis A: General, 2014, 472, 47-52.	4.3	44
11	Oxidative carbonylation of methanol to dimethyl carbonate over CuCl/SiO2–TiO2 catalysts prepared by microwave heating: The effect of support composition. Applied Catalysis A: General, 2009, 366, 93-101.	4.3	42
12	Catalytic Combustion of Toluene over Cobalt Oxides Supported on Graphitic Carbon Nitride (CoOx/g-C <sub>3</sub> N <sub>4</sub> ) Catalyst. Industrial & Engineering Chemistry Research, 2018, 57, 11920-11928.	3.7	41
13	Highly stable and coking resistant Ce promoted Ni/SiC catalyst towards high temperature CO methanation. Fuel Processing Technology, 2018, 177, 266-274.	7.2	40
14	Ordered mesoporous silica-carbon-supported copper catalyst as an efficient and stable catalyst for catalytic oxidative carbonylation. Chemical Engineering Journal, 2017, 328, 673-682.	12.7	37
15	Direct and generalized synthesis of carbon-based yolk–shell nanocomposites from metal-oleate precursor. Chemical Engineering Journal, 2016, 283, 1295-1304.	12.7	31
16	A comparison study on the deoxygenation of coal mine methane over coal gangue and coke under microwave heating conditions. Energy Conversion and Management, 2015, 100, 45-55.	9.2	30
17	The growth of Ni <sub>n</sub> clusters and their interaction with cubic, monoclinic, and tetragonal ZrO <sub>2</sub> surfaces–a theoretical and experimental study. RSC Advances, 2015, 5, 59935-59945.	3.6	29
18	Density-functional theory study of dimethyl carbonate synthesis by methanol oxidative carbonylation on single-atom Cu 1 /graphene catalyst. Applied Surface Science, 2017, 425, 291-300.	6.1	27

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19	Graphene supported Cu nanoparticles as catalysts for the synthesis of dimethyl carbonate: Effect of carbon black intercalation. Molecular Catalysis, 2018, 445, 257-268.	2.0	27
20	Remarkable activity of nitrogen-doped hollow carbon spheres encapsulated Cu on synthesis of dimethyl carbonate: Role of effective nitrogen. Applied Surface Science, 2018, 436, 803-813.	6.1	25
21	Cu nanoparticles encapsulated with hollow carbon spheres for methanol oxidative carbonylation: Tuning of the catalytic properties by particle size control. Applied Surface Science, 2018, 459, 707-715.	6.1	24
22	Enhanced performance of Ni catalysts supported on ZrO2 nanosheets for CO2 methanation: Effects of support morphology and chelating ligands. International Journal of Hydrogen Energy, 2021, 46, 14395-14406.	7.1	24
23	Mechanism of microwave-induced carbothermic reduction and catalytic performance of Cu/activated carbon catalysts in the oxidative carbonylation of methanol. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1929-1939.	3.6	23
24	Influence of Microwave Irradiation on the Structural Properties of Carbon‣upported Hollow Copper Nanoparticles and Their Effect on the Synthesis of Dimethyl Carbonate. ChemCatChem, 2016, 8, 861-871.	3.7	23
25	Density functional theory study of the mechanism of CO methanation on Ni4/t-ZrO2 catalysts: Roles of surface oxygen vacancies and hydroxyl groups. International Journal of Hydrogen Energy, 2017, 42, 177-192.	7.1	23
26	Highly Active and Dispersed Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts for CO Methanation Prepared by the Cation–Anion Double-Hydrolysis Method: Effects of Zr, Fe, and Ce Promoters. Industrial & Engineering Chemistry Research, 2019, 58, 11728-11738.	3.7	23
27	Highly active urchin-like MCo2O4 (MÂ=ÂCo, Cu, Ni or Zn) spinel for toluene catalytic combustion. Fuel, 2022, 318, 123648.	6.4	22
28	Influence of oxygen-containing groups of activated carbon aerogels on copper/activated carbon aerogels catalyst and synthesis of dimethyl carbonate. Journal of Materials Science, 2018, 53, 1833-1850.	3.7	20
29	Highly efficient synthesis of dimethyl carbonate over copper catalysts supported on resin-derived carbon microspheres. Chemical Engineering Science, 2019, 207, 1060-1071.	3.8	20
30	Highly anti-sintering and anti-coking ordered mesoporous silica carbide supported nickel catalyst for high temperature CO methanation. Fuel, 2019, 257, 116006.	6.4	20
31	Structural feature and catalytic performance of Cu―SiO2―TiO2 cogelled xerogel catalysts for oxidative carbonylation of methanol to dimethyl carbonate. Catalysis Communications, 2011, 12, 357-361.	3.3	19
32	Mechanism studies concerning carbon deposition effect of CO methanation on Ni-based catalyst through DFT and TPSR methods. International Journal of Hydrogen Energy, 2016, 41, 8401-8411.	7.1	19
33	Effects of surface acid–base properties of ZrO2 on the direct synthesis of DMC from CO2 and methanol: A combined DFT and experimental study. Chemical Engineering Science, 2021, 229, 116018.	3.8	19
34	Synthesis of dimethyl carbonate over starch-based Carbon-supported Cu nanoparticles catalysts. Chinese Journal of Catalysis, 2013, 34, 1734-1744.	14.0	18
35	Co-utilization of two coal mine residues: Non-catalytic deoxygenation of coal mine methane over coal gangue. Chemical Engineering Research and Design, 2014, 92, 896-902.	5.6	18
36	Surface reconstruction induced highly efficient N-doped carbon nanosheet supported copper cluster catalysts for dimethyl carbonate synthesis. Applied Catalysis B: Environmental, 2022, 300, 120718.	20.2	18

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37	Activated carbon aerogel supported copper catalysts for the hydrogenation of methyl acetate to ethanol: effect of KOH activation. New Journal of Chemistry, 2019, 43, 9430-9438.	2.8	17
38	Synthesis of dimethyl carbonate on single Cu atom embedded in N-doped graphene: Effect of nitrogen species. Molecular Catalysis, 2017, 443, 1-13.	2.0	16
39	Hierarchical Porous Carbon-Supported Copper Nanoparticles as an Efficient Catalyst for the Dimethyl Carbonate Synthesis. Catalysis Letters, 2019, 149, 3184-3193.	2.6	16
40	Oxidative Dehydrogenation of Ethylbenzene with Carbon Dioxide over Metal-Doped Titanium Oxides. Catalysis Letters, 2004, 93, 31-35.	2.6	14
41	Using data mining technology in screening potential additives to Ni/Al <sub>2</sub> O <sub>3</sub> catalysts for methanation. Catalysis Science and Technology, 2017, 7, 6042-6049.	4.1	14
42	Preparation of Modified Semi-Coke–Supported ZnFe <sub>2</sub> O <sub>4</sub> Sorbent with the Assistance of Ultrasonic Irradiation. Environmental Engineering Science, 2012, 29, 1026-1031.	1.6	13
43	A DFT study of dimethyl carbonate synthesis from methanol and CO2 on zirconia: Effect of crystalline phases. Computational Materials Science, 2019, 159, 210-221.	3.0	13
44	Carbon-Supported Nitrogen-Doped Graphene-Wrapped Copper Nanoparticles: An Effective Catalyst for the Oxidative Carbonylation of Methanol. Industrial & Engineering Chemistry Research, 2021, 60, 2944-2953.	3.7	13
45	Fabrication of Yolk-Shell Cu@C Nanocomposites as High-Performance Catalysts in Oxidative Carbonylation of Methanol to Dimethyl Carbonate. Nanoscale Research Letters, 2017, 12, 481.	5.7	12
46	Promotion effect by Mg on the catalytic behavior of MgNi/WO3 in the CO methanation. International Journal of Hydrogen Energy, 2020, 45, 29917-29928.	7.1	12
47	Density-functional theory study on hydrogenation of dimethyl oxalate to methyl glycolate over copper catalyst: Effect of copper valence state. Molecular Catalysis, 2020, 482, 110667.	2.0	10
48	Catalytic combustion of toluene over CeO <sub>2</sub> –CoO <sub>x</sub> composite aerogels. New Journal of Chemistry, 2020, 44, 11557-11565.	2.8	10
49	Highly active CuZn/SBA-15 catalyst for methanol dehydrogenation to methyl formate: Influence of ZnO promoter. Molecular Catalysis, 2021, 505, 111514.	2.0	10
50	A <scp>DFT</scp> study of <scp>DMC</scp> formation on <scp>R</scp> hâ€doped <scp>C</scp> u/ <scp>AC</scp> surfaces. International Journal of Quantum Chemistry, 2015, 115, 853-858.	2.0	8
51	Catalytic Hydrogenation of Methyl Acetate to Ethanol over Boron Doped Carbon Aerogels Supported Cu Catalyst. ChemistrySelect, 2020, 5, 11517-11521.	1.5	8
52	Fabrication of Few-Layer Graphene-Supported Copper Catalysts Using a Lithium-Promoted Thermal Exfoliation Method for Methanol Oxidative Carbonylation. ACS Applied Materials & Interfaces, 2020, 12, 30483-30493.	8.0	8
53	Study on the formation and role of copper chloride hydroxide in the oxidative carbonylation of methanol to dimethyl carbonate. Kinetics and Catalysis, 2010, 51, 250-254.	1.0	5
54	The improved activity of Co3O4 nanorods using silver in the catalytic oxidation of toluene. Environmental Science and Pollution Research, 2021, 28, 37592-37602.	5.3	5

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55	Screening of Additives to Ni-Based Methanation Catalyst for Enhanced Anti-Sintering Performance. Catalysts, 2019, 9, 493.	3.5	4
56	Highly Efficient La <sub>x</sub> Ce <sub>1–<i>x</i></sub> O <sub>2–<i>x</i>/2</sub> Nanorod-Supported Nickel Catalysts for CO Methanation: Effect of La Addition. Energy & Fuels, 2021, 35, 3307-3314.	5.1	4
57	Surface Properties and Reactivity of Iron-Doped Titanium Oxides Catalysts in Oxidative Dehydrogenation of Ethylbenzene with CO2. Petroleum Science and Technology, 2006, 24, 963-972.	1.5	3
58	Comparison of Machine Learning Algorithms in Screening Potential Additives to Ni/Al 2 O 3 Methanation Catalysts for Improving the Anti oking Performance. ChemistrySelect, 2019, 4, 11790-11795.	1.5	2
59	Development of Highly Stable Ni-Al2O3 Catalysts for CO Methanation. Catalysis Letters, 2021, 151, 2647-2657.	2.6	2
60	Comparative predicting study of heterogeneous catalysis using support vector regression and neural networks with chaotic particle swarm optimization algorithm. , 2009, , .		0