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List of Publications by Year
in descending order

60 papers	1,834 citations	279798 23 h-index	276875 41 g-index
60 all docs	60 docs citations	60 times ranked	2219 citing authors

#	Article	IF	Citations
1	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
2	Highly active urchin-like MCo2O4 (MÂ=ÂCo, Cu, Ni or Zn) spinel for toluene catalytic combustion. Fuel, 2022, 318, 123648.	6.4	22
3	Effects of surface acidâ€“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
4	Development of Highly Stable Ni-Al2O3 Catalysts for CO Methanation. Catalysis Letters, 2021, 151, 2647-2657.	2.6	2
5	Highly Efficient La_xCe_{1â€“x}O_{2â€“x/2} Nanorod-Supported Nickel Catalysts for CO Methanation: Effect of La Addition. Energy & Fuels, 2021, 35, 3307-3314.	5.1	4
6	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
7	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
8	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
9	Highly active CuZn/SBA-15 catalyst for methanol dehydrogenation to methyl formate: Influence of ZnO promoter. Molecular Catalysis, 2021, 505, 111514.	2.0	10
10	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
11	Catalytic Hydrogenation of Methyl Acetate to Ethanol over Boron Doped Carbon Aerogels Supported Cu Catalyst. ChemistrySelect, 2020, 5, 11517-11521.	1.5	8
12	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
13	Catalytic combustion of toluene over CeO₂â€“CoO_x composite aerogels. New Journal of Chemistry, 2020, 44, 11557-11565.	2.8	10
14	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
15	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
16	Hierarchical Porous Carbon-Supported Copper Nanoparticles as an Efficient Catalyst for the Dimethyl Carbonate Synthesis. Catalysis Letters, 2019, 149, 3184-3193.	2.6	16
17	Comparison of Machine Learning Algorithms in Screening Potential Additives to Ni/Al 2 O 3 Methanation Catalysts for Improving the Antiâ€Coking Performance. ChemistrySelect, 2019, 4, 11790-11795.	1.5	2
18	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

#	Article	IF	Citations
19	Screening of Additives to Ni-Based Methanation Catalyst for Enhanced Anti-Sintering Performance. Catalysts, 2019, 9, 493.	3.5	4
20	Highly Active and Dispersed Ni/Al₂O₃ Catalysts for CO Methanation Prepared by the Cationâ€“Anion Double-Hydrolysis Method: Effects of Zr, Fe, and Ce Promoters. Industrial & Engineering Chemistry Research, 2019, 58, 11728-11738.	3.7	23
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	Catalytic Combustion of Toluene over Cobalt Oxides Supported on Graphitic Carbon Nitride (CoOx/g-C₃N₄) Catalyst. Industrial & Engineering Chemistry Research, 2018, 57, 11920-11928.	3.7	41
29	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
30	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
31	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
32	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
33	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
34	Using data mining technology in screening potential additives to Ni/Al₂O₃ catalysts for methanation. Catalysis Science and Technology, 2017, 7, 6042-6049.	4.1	14
35	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
36	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

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37	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
38	Modification of a magnetic carbon composite for ciprofloxacin adsorption. Journal of Environmental Sciences, 2016, 49, 179-188.	6.1	98
39	Influence of Microwave Irradiation on the Structural Properties of Carbonâ€Supported Hollow Copper Nanoparticles and Their Effect on the Synthesis of Dimethyl Carbonate. ChemCatChem, 2016, 8, 861-871.	3.7	23
40	Direct and generalized synthesis of carbon-based yolkâ€“shell nanocomposites from metal-oleate precursor. Chemical Engineering Journal, 2016, 283, 1295-1304.	12.7	31
41	Methanation of carbon dioxide over Niâ€“M/ZrO2 (M=Fe, Co, Cu) catalysts: Effect of addition of a second metal. Fuel Processing Technology, 2015, 137, 204-211.	7.2	147
42	The growth of Ni_n clusters and their interaction with cubic, monoclinic, and tetragonal ZrO₂ surfacesâ€“a theoretical and experimental study. RSC Advances, 2015, 5, 59935-59945.	3.6	29
43	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
44	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
45	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
46	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
47	Ni/SBA-15 catalysts for CO methanation: effects of V, Ce, and Zr promoters. RSC Advances, 2015, 5, 96504-96517.	3.6	79
48	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
49	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
50	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
51	Combustion Characteristics of Coal Gangue under an Atmosphere of Coal Mine Methane. Energy & Fuels, 2014, 28, 3688-3695.	5.1	46
52	Synthesis of dimethyl carbonate over starch-based Carbon-supported Cu nanoparticles catalysts. Chinese Journal of Catalysis, 2013, 34, 1734-1744.	14.0	18
53	Preparation of Modified Semi-Cokeâ€“Supported ZnFe₂O₄ Sorbent with the Assistance of Ultrasonic Irradiation. Environmental Engineering Science, 2012, 29, 1026-1031.	1.6	13
54	Structural feature and catalytic performance of Cuâ€•SiO2â€•TiO2 cogelled xerogel catalysts for oxidative carbonylation of methanol to dimethyl carbonate. Catalysis Communications, 2011, 12, 357-361.	3.3	19

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55	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
56	Oxidative carbonylation of methanol to dimethyl carbonate over CuCl/SiO2â€“TiO2 catalysts prepared by microwave heating: The effect of support composition. Applied Catalysis A: General, 2009, 366, 93-101.	4.3	42
57	Comparative predicting study of heterogeneous catalysis using support vector regression and neural networks with chaotic particle swarm optimization algorithm. , 2009, , .		0
58	Silicaâ€“Titania mixed Oxides: Siâ€“Oâ€“Ti Connectivity, Coordination of Titanium, and Surface Acidic Properties. Catalysis Letters, 2008, 124, 185-194.	2.6	101
59	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
60	Oxidative Dehydrogenation of Ethylbenzene with Carbon Dioxide over Metal-Doped Titanium Oxides. Catalysis Letters, 2004, 93, 31-35.	2.6	14