Thongthai Witoon

List of Publications by Year
in descending order

86 papers	3,636 citations	101384 36 h-index	143772 57 g-index
87 all docs	87 docs citations	87 times ranked	3685 citing authors

#	Article	IF	Citations
1	CuAl2O4â€“CuOâ€“Al2O3 catalysts prepared by flame-spray pyrolysis for glycerol hydrogenolysis. Molecular Catalysis, 2022, 523, 111426.	1.0	8
2	Biomass-derived carbon-based and silica-based materials for catalytic and adsorptive applications- An update since 2010. Chemosphere, 2022, 287, 132222.	4.2	8
3	CO2 hydrogenation to light olefins over mixed Fe-Co-K-Al oxides catalysts prepared via precipitation and reduction methods. Chemical Engineering Journal, 2022, 428, 131389.	6.6	51
4	Enhanced CO2 hydrogenation to higher alcohols over K-Co promoted In2O3 catalysts. Chemical Engineering Journal, 2022, 431, 133211.	6.6	32
5	Synthesis of Na2WO4-MnxOy supported on SiO2 or La2O3 as fiber catalysts by electrospinning for oxidative coupling of methane. Arabian Journal of Chemistry, 2022, 15, 103577.	2.3	8
6	Light olefins synthesis from CO2 hydrogenation over mixed Feâ€“Coâ€“K supported on micro-mesoporous carbon catalysts. International Journal of Hydrogen Energy, 2022, 47, 42185-42199.	3.8	11
7	Oxidative coupling of methaneâ€”comparisons of MnTiO3â€“Na2WO4 and MnOxâ€“TiO2â€–Na2WO4 catalysts on different silica supports. Scientific Reports, 2022, 12, 2595.	1.6	9
8	Enhanced activity and stability of SO42â¯/ZrO2 by addition of Cu combined with CuZnOZrO2 for direct synthesis of dimethyl ether from CO2 hydrogenation. International Journal of Hydrogen Energy, 2022, 47, 41374-41385.	3.8	11
9	How magnetic field affects catalytic CO2 hydrogenation over Fe-Cu/MCM-41: In situ active metal phaseâ€”reactivity observation during activation and reaction. Chemical Engineering Journal, 2022, 441, 135952.	6.6	8
10	Rapid effectual entrapment of arsenic pollutant by Fe2O3 supported on bimodal meso-macroporous silica for cleaning up aquatic system. Chemosphere, 2022, 300, 134613.	4.2	9
11	CO2 hydrogenation to methanol at high reaction temperatures over In2O3/ZrO2 catalysts: Influence of calcination temperatures of ZrO2 support. Catalysis Today, 2021, 375, 298-306.	2.2	39
12	Modeling the effect of process parameters on the photocatalytic degradation of organic pollutants using artificial neural networks. Chemical Engineering Research and Design, 2021, 145, 120-132.	2.7	49
13	Tuning interaction of surface-adsorbed species over Fe/K-Al2O3 modified with transition metals (Cu,) Tj ETQq1 1 0.784314 rgBT /Ove	3.4	53
14	Effect of reaction conditions on the lifetime of SAPO-34 catalysts in methanol to olefins process â€“ A review. Fuel, 2021, 283, 118851.	3.4	59
15	Sustainable utilization of waste glycerol for 1,3-propanediol production over Pt/WOx/Al2O3 catalysts: Effects of catalyst pore sizes and optimization of synthesis conditions. Environmental Pollution, 2021, 272, 116029.	3.7	29
16	Radial Basis Function Neural Network Model Prediction of Thermo-catalytic Carbon Dioxide Oxidative Coupling of Methane to C2-hydrocarbon. Topics in Catalysis, 2021, 64, 328-337.	1.3	8
17	CO2 Hydrogenation to Light Olefins Over In2O3/SAPO-34 and Fe-Co/K-Al2O3 Composite Catalyst. Topics in Catalysis, 2021, 64, 316-327.	1.3	21
18	One-Pot Synthesis of Ultra-Small Pt Dispersed on Hierarchical Zeolite Nanosheet Surfaces for Mild Hydrodeoxygenation of 4-Propylphenol. Catalysts, 2021, 11, 333.	1.6	9

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19	Coreâ€Shell Faujasite@Aqueous Miscible Organicâ€Layered Double Hydroxides Composites with Tunable Acid/Base Properties for Oneâ€Pot Synthesis of Ethyl trans â€Î±â€Cyanocinnamate. Advanced Materials Interfaces, 2021, 8, 2002259.	1.9	4
20	Synthesis of value-added hydrocarbons via oxidative coupling of methane over MnTiO3-Na2WO4/SBA-15 catalysts. Chemical Engineering Research and Design, 2021, 148, 1110-1122.	2.7	12
21	Highly active Fe-Co-Zn/K-Al2O3 catalysts for CO2 hydrogenation to light olefins. Chemical Engineering Science, 2021, 233, 116428.	1.9	40
22	Preface to â€œThermocatalytic Conversion of CO2 into Sustainable Chemical Productsâ€. Topics in Catalysis, 2021, 64, 315-315.	1.3	0
23	Advances in catalytic production of value-added biochemicals and biofuels via furfural platform derived lignocellulosic biomass. Biomass and Bioenergy, 2021, 148, 106033.	2.9	69
24	Bifunctional Acidâ€Base Catalysts: Coreâ€Shell Faujasite@Aqueous Miscible Organicâ€Layered Double Hydroxides Composites with Tunable Acid/Base Properties for Oneâ€Pot Synthesis of Ethyl trans â€Î±â€Cyanocinnamate (Adv. Mater. Interfaces 9/2021). Advanced Materials Interfaces, 2021, 8, 2170049.	1.9	0
25	Recent advances in light olefins production from catalytic hydrogenation of carbon dioxide. Chemical Engineering Research and Design, 2021, 151, 401-427.	2.7	39
26	Sustainable transformation of natural silica-rich solid and waste to hierarchical zeolites for sugar conversion to hydroxymethylfurfural (HMF). Microporous and Mesoporous Materials, 2021, 323, 111252.	2.2	12
27	Effect of surface treatment technique on properties and performance of <scp>Na₂WO₄â€TiO₂â€MnO_x</scp>/<scp>SiO₂</scp> for oxidative coupling of methane. Journal of Chemical Technology and Biotechnology, 2021, 96, 3101-3113.	1.6	2
28	A review on advances in green treatment of glycerol waste with a focus on electro-oxidation pathway. Chemosphere, 2021, 276, 130128.	4.2	41
29	Process intensification of hydrogen production by catalytic steam methane reforming: Performance analysis of multilayer perceptron-artificial neural networks and nonlinear response surface techniques. Chemical Engineering Research and Design, 2021, 156, 315-329.	2.7	14
30	Highly efficient TiO2-supported Coâ€“Cu catalysts for conversion of glycerol to 1,2-propanediol. Scientific Reports, 2021, 11, 23042.	1.6	7
31	Highly dispersed Ni Cu nanoparticles on SBA-15 for selective hydrogenation of methyl levulinate to Î³-valerolactone. International Journal of Hydrogen Energy, 2020, 45, 24054-24065.	3.8	17
32	Ethylene production from ethanol dehydration over mesoporous SBA-15 catalyst derived from palm oil clinker waste. Journal of Cleaner Production, 2020, 249, 119323.	4.6	30
33	Effect of Water and Glycerol in Deoxygenation of Coconut Oil over Bimetallic NiCo/SAPO-11 Nanocatalyst under N2 Atmosphere. Nanomaterials, 2020, 10, 2548.	1.9	2
34	Tailoring hierarchical zeolite composites with two distinct frameworks for fine-tuning the product distribution in benzene alkylation with ethanol. Nanoscale Advances, 2020, 2, 4437-4449.	2.2	9
35	Modified Acidâ€Base ZSMâ€5 Derived from Coreâ€Shell ZSMâ€5@ Aqueous Miscible Organicâ€Layered Double Hydroxides for Catalytic Cracking of nâ€Pentane to Light Olefins. ChemCatChem, 2020, 12, 4288-4296.	1.8	14
36	Role of Calcination Temperatures of ZrO₂ Support on Methanol Synthesis from CO₂ Hydrogenation at High Reaction Temperatures over ZnO_x/ZrO₂ Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 5525-5535.	1.8	81

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37	Synthesis of Dimethyl Ether via CO₂ Hydrogenation: Effect of the Drying Technique of Alumina on Properties and Performance of Alumina-Supported Copper Catalysts. ACS Omega, 2020, 5, 2334-2344.	1.6	7
38	Tuning Interactions of Surfaceâ€adsorbed Species over Feâ^'Co/Kâ^'Al₂O₃ Catalyst by Different K Contents: Selective CO₂ Hydrogenation to Light Olefins. ChemCatChem, 2020, 12, 3306-3320.	1.8	56
39	Bifunctional and Bimetallic Ptâ€"Ru/HZSM-5 Nanoparticles for the Mild Hydrodeoxygenation of Lignin-Derived 4-Propylphenol. ACS Applied Nano Materials, 2019, 2, 1053-1062.	2.4	33
40	Facile synthesis of CaFe2O4 for visible light driven treatment of polluting palm oil mill effluent: Photokinetic and scavenging study. Science of the Total Environment, 2019, 661, 522-530.	3.9	33
41	Tuning adsorption properties of GaxIn2â^'xO3 catalysts for enhancement of methanol synthesis activity from CO2 hydrogenation at high reaction temperature. Applied Surface Science, 2019, 489, 278-286.	3.1	40
42	Treatment technologies of palm oil mill effluent (POME) and olive mill wastewater (OMW): A brief review. Environmental Technology and Innovation, 2019, 15, 100377.	3.0	114
43	Syngas from catalytic steam reforming of palm oil mill effluent: An optimization study. International Journal of Hydrogen Energy, 2019, 44, 9220-9236.	3.8	37
44	Pore size effects on physicochemical properties of Fe-Co/K-Al2O3 catalysts and their catalytic activity in CO2 hydrogenation to light olefins. Applied Surface Science, 2019, 483, 581-592.	3.1	61
45	Dehydrogenation of Propane to Propylene Using Promoter-Free Hierarchical Pt/Silicalite-1 Nanosheets. Catalysts, 2019, 9, 174.	1.6	35
46	Nanoceria-modified platinum supported on hierarchical zeolites for selective alcohol oxidation. RSC Advances, 2019, 9, 36027-36033.	1.7	10
47	Optimization of synthesis condition for CO2 hydrogenation to light olefins over In2O3 admixed with SAPO-34. Energy Conversion and Management, 2019, 180, 511-523.	4.4	77
48	Development of SO42â^'â€"ZrO2 acid catalysts admixed with a CuO-ZnO-ZrO2 catalyst for CO2 hydrogenation to dimethyl ether. Fuel, 2019, 241, 695-703.	3.4	25
49	Green and sustainable methanol production from CO 2 over magnetized Fe Cu/coreâ€"shell and infiltrate mesoporous silica-aluminosilicates. Energy Conversion and Management, 2018, 159, 342-352.	4.4	16
50	Direct synthesis of dimethyl ether from CO 2 hydrogenation over novel hybrid catalysts containing a Cu ZnO ZrO 2 catalyst admixed with WO x /Al 2 O 3 catalysts: Effects of pore size of Al 2 O 3 support and W loading content. Energy Conversion and Management, 2018, 159, 20-29.	4.4	37
51	Enhanced activity, selectivity and stability of a CuO-ZnO-ZrO2 catalyst by adding graphene oxide for CO2 hydrogenation to methanol. Chemical Engineering Journal, 2018, 334, 1781-1791.	6.6	129
52	Direct synthesis of dimethyl ether from CO2 and H2 over novel bifunctional catalysts containing CuO-ZnO-ZrO2 catalyst admixed with WOx/ZrO2 catalysts. Chemical Engineering Journal, 2018, 348, 713-722.	6.6	36
53	CO 2 hydrogenation to methanol over CuOâ€"ZnOâ€"ZrO 2 â€"SiO 2 catalysts: Effects of SiO 2 contents. Chemical Engineering Journal, 2017, 316, 692-703.	6.6	160
54	Impact of physicochemical properties of porous silica materials conjugated with dexamethasone via pH-responsive hydrazone bond on drug loading and release behavior. Applied Surface Science, 2017, 396, 504-514.	3.1	20

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55	One step NaBH 4 reduction of Pt-Ru-Ni catalysts on different types of carbon supports for direct ethanol fuel cells: Synthesis and characterization. Journal of Fuel Chemistry and Technology, 2017, 45, 596-607.	0.9	9
56	Structureâ€“activity relationships of Fe-Co/K-Al2O3 catalysts calcined at different temperatures for CO2 hydrogenation to light olefins. Applied Catalysis A: General, 2017, 547, 219-229.	2.2	119
57	Hierarchical FAU-type zeolite nanosheets as green and sustainable catalysts for benzylation of toluene. Journal of Cleaner Production, 2017, 142, 1244-1251.	4.6	51
58	Preparation and characterization of Coâ€“Cuâ€“ZrO 2 nanomaterials and their catalytic activity in CO 2 methanation. Ceramics International, 2016, 42, 10444-10451.	2.3	20
59	Tuning of catalytic CO2 hydrogenation by changing composition of CuOâ€“ZnOâ€“ZrO2 catalysts. Energy Conversion and Management, 2016, 118, 21-31.	4.4	140
60	Structureâ€“Activity Relationships of Hierarchical Mesoâ€“Macroporous Alumina Supported Copper Catalysts for CO2 Hydrogenation: Effects of Calcination Temperature of Alumina Support. Catalysis Letters, 2016, 146, 1943-1955.	1.4	21
61	Carbon-structure affecting catalytic carbon dioxide reforming of methane reaction over Ni-carbon composites. Journal of CO2 Utilization, 2016, 16, 245-256.	3.3	37
62	Effect of magnetic field on CO2 conversion over Cu-ZnO/ZrO2 catalyst in hydrogenation reaction. Journal of CO2 Utilization, 2016, 16, 204-211.	3.3	50
63	Multimetallic catalysts of RuO₂â€“CuOâ€“Cs₂Oâ€“TiO₂/SiO₂ for direct gas-phase epoxidation of propylene to propylene oxide. RSC Advances, 2016, 6, 56116-56126.	1.7	17
64	CO 2 hydrogenation to methanol over Cu/ZrO 2 catalysts: Effects of zirconia phases. Chemical Engineering Journal, 2016, 293, 327-336.	6.6	292
65	Impact of pore characteristics of silica materials on loading capacity and release behavior of ibuprofen. Materials Science and Engineering C, 2016, 59, 43-52.	3.8	35
66	Direct synthesis of dimethyl ether from CO₂ hydrogenation over Cuâ€“ZnOâ€“ZrO₂/SO₄^{2â¯}â€“ZrO₂ hybrid catalysts: effects of sulfur-to-zirconia ratios. Catalysis Science and Technology, 2015, 5, 2347-2357.	2.1	71
67	Effect of hierarchical mesoâ€“macroporous alumina-supported copper catalyst for methanol synthesis from CO2 hydrogenation. Energy Conversion and Management, 2015, 103, 886-894.	4.4	57
68	Deactivation of nickel catalysts in methane cracking reaction: Effect of bimodal mesoâ€“macropore structure of silica support. Chemical Engineering Journal, 2015, 262, 364-371.	6.6	46
69	Development of synthetic CaO sorbents via CTAB-assisted solâ€“gel method for CO2 capture at high temperature. Chemical Engineering Journal, 2014, 237, 189-198.	6.6	103
70	Biodiesel production from transesterification of palm oil with methanol over CaO supported on bimodal meso-macroporous silica catalyst. Bioresource Technology, 2014, 156, 329-334.	4.8	91
71	Biotemplated synthesis of highly stable calcium-based sorbents for CO2 capture via a precipitation method. Applied Energy, 2014, 118, 32-40.	5.1	46
72	Effect of bimodal porous silica on particle size and reducibility of cobalt oxide. Journal of Porous Materials, 2013, 20, 481-488.	1.3	7

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73	CO2 hydrogenation to methanol over Cu/ZnO nanocatalysts prepared via a chitosan-assisted co-precipitation method. Fuel Processing Technology, 2013, 116, 72-78.	3.7	64
74	Chitosan-assisted combustion synthesis of CuOâ€“ZnO nanocomposites: Effect of pH and chitosan concentration. Ceramics International, 2013, 39, 3371-3375.	2.3	29
75	Polyethyleneimine-loaded bimodal porous silica as low-cost and high-capacity sorbent for CO2 capture. Materials Chemistry and Physics, 2012, 137, 235-245.	2.0	49
76	Interaction of chitosan with tetraethyl orthosilicate on the formation of silica nanoparticles: Effect of pH and chitosan concentration. Ceramics International, 2012, 38, 5999-6007.	2.3	11
77	Synthesis of hierarchical mesoâ€macroporous silica monolith using chitosan as biotemplate and its application as polyethyleneimine support for CO2 capture. Materials Letters, 2012, 81, 181-184.	1.3	33
78	Effect of pH and chitosan concentration on precipitation and morphology of hierarchical porous silica. Journal of Non-Crystalline Solids, 2011, 357, 3513-3519.	1.5	9
79	Characterization of calcium oxide derived from waste eggshell and its application as CO2 sorbent. Ceramics International, 2011, 37, 3291-3298.	2.3	217
80	Effect of hierarchical meso-macroporous silica supports on Fischer-Tropsch synthesis using cobalt catalyst. Fuel Processing Technology, 2011, 92, 1498-1505.	3.7	41
81	Preparation of silica xerogel with high silanol content from sodium silicate and its application as CO2 adsorbent. Ceramics International, 2011, 37, 2297-2303.	2.3	35
82	One-pot synthesis of coreâ€“shell silicaâ€“aluminosilicate composites: Effect of pH and chitosan addition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 380, 319-326.	2.3	13
83	Size control of nanostructured silica using chitosan template and fractal geometry: effect of chitosan/silica ratio and aging temperature. Journal of Sol-Gel Science and Technology, 2010, 56, 270-277.	1.1	12
84	Synthesis of mixed-phase uniformly infiltrated SBA-3-like in SBA-15 bimodal mesoporous silica from rice husk ash. Materials Letters, 2009, 63, 1303-1306.	1.3	42
85	Effect of acidity on the formation of silicaâ€“chitosan hybrid materials and thermal conductive property. Journal of Sol-Gel Science and Technology, 2009, 51, 146-152.	1.1	42
86	Synthesis of bimodal porous silica from rice husk ash via solâ€“gel process using chitosan as template. Materials Letters, 2008, 62, 1476-1479.	1.3	86