

# Mingyuan Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

1,611  
citations

448610

19  
h-index

799663

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of catalytic toluene combustion over Pt@Co <sub>3</sub> O <sub>4</sub> catalyst through in-situ metal-organic template conversion. <i>Chemosphere</i> , 2021, 262, 127738.	4.2	31
2	Controllable transformation from 1D Co-MOF-74 to 3D Co <sub>3</sub> O <sub>4</sub> and Co <sub>3</sub> O <sub>4</sub> with ligand recovery and tunable morphologies: the assembly process and boosting VOC degradation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6890-6897.	5.2	34
3	Construction of Cu-Ce interface for boosting toluene oxidation: Study of Cu-Ce interaction and intermediates identified by in situ DRIFTS. <i>Chinese Chemical Letters</i> , 2021, 32, 3435-3439.	4.8	24
4	Toluene oxidation over Co <sup>3+</sup> -rich spinel Co <sub>3</sub> O <sub>4</sub> : Evaluation of chemical and by-product species identified by in situ DRIFTS combined with PTR-TOF-MS. <i>Journal of Hazardous Materials</i> , 2020, 386, 121957.	6.5	141
5	Catalytic Performance of Toluene Combustion over Pt Nanoparticles Supported on Pore-Modified Macro-Meso-Microporous Zeolite Foam. <i>Nanomaterials</i> , 2020, 10, 30.	1.9	19
6	Toluene oxidation process and proper mechanism over Co <sub>3</sub> O <sub>4</sub> nanotubes: Investigation through in-situ DRIFTS combined with PTR-TOF-MS and quasi in-situ XPS. <i>Chemical Engineering Journal</i> , 2020, 397, 125375.	6.6	134
7	Enhancing catalytic toluene oxidation over MnO <sub>2</sub> @Co <sub>3</sub> O <sub>4</sub> by constructing a coupled interface. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1873-1883.	6.9	57
8	Macroscopic Hexagonal Co <sub>3</sub> O <sub>4</sub> Tubes Derived from Controllable Two-Dimensional Metal-Organic Layer Single Crystals: Formation Mechanism and Catalytic Activity. <i>Inorganic Chemistry</i> , 2020, 59, 3062-3071.	1.9	13
9	Effect of CeO <sub>2</sub> morphologies on toluene catalytic combustion. <i>Catalysis Today</i> , 2019, 332, 177-182.	2.2	111
10	<i>In situ</i> DRIFT spectroscopy insights into the reaction mechanism of CO and toluene co-oxidation over Pt-based catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 4538-4551.	2.1	103
11	Elucidating the special role of strong metal-support interactions in Pt/MnO <sub>2</sub> catalysts for total toluene oxidation. <i>Nanoscale Horizons</i> , 2019, 4, 1425-1433.	4.1	78
12	Electrochemical Flocculation Integrated Hydrogen Evolution Reaction of Fe@Doped Carbon Nanotubes on Iron Foam for Ultralow Voltage Electrolysis in Neutral Media. <i>Advanced Science</i> , 2019, 6, 1901458.	5.6	73
13	Fragmentation of a One-Dimensional Zinc Coordination Polymer and Partial Reassembly Evidenced by Mass Spectrometry. <i>Crystal Growth and Design</i> , 2019, 19, 6801-6805.	1.4	1
14	CO <sub>2</sub> hydrogenation to methanol over Cu/ZnO plate model catalyst: Effects of reducing gas induced Cu nanoparticle morphology. <i>Chemical Engineering Journal</i> , 2019, 374, 221-230.	6.6	81
15	Gaseous CO and toluene co-oxidation over monolithic core-shell Co <sub>3</sub> O <sub>4</sub> -based hetero-structured catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16197-16210.	5.2	134
16	Design of 3-dimensionally self-assembled CeO <sub>2</sub> hierarchical nanosphere as high efficiency catalysts for toluene oxidation. <i>Chemical Engineering Journal</i> , 2019, 369, 18-25.	6.6	74
17	Leaf-like Co-ZIF-L derivatives embedded on Co <sub>2</sub> AlO <sub>4</sub> /Ni foam from hydrotalcites as monolithic catalysts for toluene abatement. <i>Journal of Hazardous Materials</i> , 2019, 364, 571-580.	6.5	65
18	Integrated Cobalt Oxide Based Nanoarray Catalysts with Hierarchical Architectures: <i>In situ</i> Raman Spectroscopy Investigation on the Carbon Monoxide Reaction Mechanism. <i>ChemCatChem</i> , 2018, 10, 3012-3026.	1.8	43

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19	Low-temperature CO oxidation over integrated penthorum chinense-like MnCo <sub>2</sub> O <sub>4</sub> arrays anchored on three-dimensional Ni foam with enhanced moisture resistance. Catalysis Science and Technology, 2018, 8, 1663-1676.	2.1	48
20	Vertically-aligned Co <sub>3</sub> O <sub>4</sub> arrays on Ni foam as monolithic structured catalysts for CO oxidation: effects of morphological transformation. Nanoscale, 2018, 10, 7746-7758.	2.8	76
21	Controllable synthesis of 3D hierarchical Co <sub>3</sub> O <sub>4</sub> nanocatalysts with various morphologies for the catalytic oxidation of toluene. Journal of Materials Chemistry A, 2018, 6, 498-509.	5.2	268
22	Solutions of broadband RCS using the characteristic basis function method. , 2015, , .		2