# Mingli Fu

List of Publications by Year
in descending order

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|---|---|---|---|
| 68 papers | 4,736 citations | 126907 33 h-index | 98798 67 g-index |
| 69 all docs | 69 docs citations | 69 times ranked | 3268 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Highly efficient mesoporous MnO2 catalysts for the total toluene oxidation: Oxygen-Vacancy defect engineering and involved intermediates using in situ DRIFTS. Applied Catalysis B: Environmental, 2020, 264, 118464. | 20.2 | 446 |
| 2 | Evolution of oxygen vacancies in MnOx-CeO2 mixed oxides for soot oxidation. Applied Catalysis B: Environmental, 2018, 223, 91-102. | 20.2 | 401 |
| 3 | Size effect of Pt nanoparticles on the catalytic oxidation of toluene over Pt/CeO2 catalysts. Applied Catalysis B: Environmental, 2018, 220, 462-470. | 20.2 | 379 |
| 4 | Shape effect of Pt/CeO 2 catalysts on the catalytic oxidation of toluene. Chemical Engineering Journal, 2016, 306, 1234-1246. | 12.7 | 280 |
| 5 | 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. | 10.3 | 268 |
| 6 | Adsorption of VOCs on reduced graphene oxide. Journal of Environmental Sciences, 2018, 67, 171-178. | 6.1 | 145 |
| 7 | Toluene oxidation over Co3+-rich spinel Co3O4: Evaluation of chemical and by-product species identified by in situ DRIFTS combined with PTR-TOF-MS. Journal of Hazardous Materials, 2020, 386, 121957. | 12.4 | 141 |
| 8 | Gaseous CO and toluene co-oxidation over monolithic coreâ€“shell Co<sub>3</sub>O<sub>4</sub>-based hetero-structured catalysts. Journal of Materials Chemistry A, 2019, 7, 16197-16210. | 10.3 | 134 |
| 9 | Toluene oxidation process and proper mechanism over Co3O4 nanotubes: Investigation through in-situ DRIFTS combined with PTR-TOF-MS and quasi in-situ XPS. Chemical Engineering Journal, 2020, 397, 125375. | 12.7 | 134 |
| 10 | Unraveling the decisive role of surface CeO2 nanoparticles in the Pt-CeO2/MnO2 hetero-catalysts for boosting toluene oxidation: Synergistic effect of surface decorated and intrinsic O-vacancies. Chemical Engineering Journal, 2021, 418, 129399. | 12.7 | 132 |
| 11 | Flower-like BiOBr/UiO-66-NH2 nanosphere with improved photocatalytic property for norfloxacin removal. Chemosphere, 2019, 220, 98-106. | 8.2 | 130 |
| 12 | Microbial Targeted Degradation Pretreatment: A Novel Approach to Preparation of Activated Carbon with Specific Hierarchical Porous Structures, High Surface Areas, and Satisfactory Toluene Adsorption Performance. Environmental Science & Technology, 2019, 53, 7632-7640. | 10.0 | 113 |
| 13 | Effects of dielectric barrier discharge plasma on the catalytic activity of Pt/CeO2 catalysts. Applied Catalysis B: Environmental, 2018, 238, 328-338. | 20.2 | 112 |
| 14 | The Applications of Morphology Controlled ZnO in Catalysis. Catalysts, 2016, 6, 188. | 3.5 | 110 |
| 15 | Visible light photocatalytic degradation of tetracycline with porous Ag/graphite carbon nitride plasmonic composite: Degradation pathways and mechanism. Journal of Colloid and Interface Science, 2020, 574, 110-121. | 9.4 | 105 |
| 16 | In situ DRIFT spectroscopy insights into the reaction mechanism of CO and toluene co-oxidation over Pt-based catalysts. Catalysis Science and Technology, 2019, 9, 4538-4551. | 4.1 | 103 |
| 17 | Interfacial effects in hierarchically porous Î±-MnO2/Mn3O4 heterostructures promote photocatalytic oxidation activity. Applied Catalysis B: Environmental, 2020, 268, 118418. | 20.2 | 100 |
| 18 | Elucidating the special role of strong metalâ€“support interactions in Pt/MnO<sub>2</sub> catalysts for total toluene oxidation. Nanoscale Horizons, 2019, 4, 1425-1433. | 8.0 | 78 |

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|---|---|---|---|
| 19 | Metal organic framework derivative-TiO2 composite as efficient and durable photocatalyst for the degradation of toluene. Applied Catalysis B: Environmental, 2020, 267, 118667. | 20.2 | 74 |
| 20 | Insight into the effect of manganese substitution on mesoporous hollow spinel cobalt oxides for catalytic oxidation of toluene. Journal of Colloid and Interface Science, 2021, 594, 713-726. | 9.4 | 70 |
| 21 | Leaf-like Co-ZIF-L derivatives embedded on Co2AlO4/Ni foam from hydrotalcites as monolithic catalysts for toluene abatement. Journal of Hazardous Materials, 2019, 364, 571-580. | 12.4 | 65 |
| 22 | Enhancing catalytic toluene oxidation over MnO2@Co3O4 by constructing a coupled interface. Chinese Journal of Catalysis, 2020, 41, 1873-1883. | 14.0 | 57 |
| 23 | Effect of calcium addition in plasma catalysis for toluene removal by Ni/ZSM-5 : Acidity/basicity, catalytic activity and reaction mechanism. Journal of Hazardous Materials, 2020, 387, 122004. | 12.4 | 48 |
| 24 | The Mechanism of Non-thermal Plasma Catalysis on Volatile Organic Compounds Removal. Catalysis Surveys From Asia, 2018, 22, 73-94. | 2.6 | 46 |
| 25 | Carbon dioxide hydrogenation to methanol over Cu/ZrO2/CNTs: effect of carbon surface chemistry. RSC Advances, 2015, 5, 45320-45330. | 3.6 | 44 |
| 26 | Inhibition Effect of Phosphorus Poisoning on the Dynamics and Redox of Cu Active Sites in a Cu-SSZ-13 NH<sub>3</sub>-SCR Catalyst for NO<sub>x</sub> Reduction. Environmental Science & Technology, 2021, 55, 12619-12629. | 10.0 | 43 |
| 27 | Plasma-Assisted Surface Interactions of Pt/CeO2 Catalyst for Enhanced Toluene Catalytic Oxidation. Catalysts, 2019, 9, 2. | 3.5 | 42 |
| 28 | Synergistic effect of tunable oxygen-vacancy defects and graphene on accelerating the photothermal degradation of methanol over Co3O4/rGO nanocomposites. Chemical Engineering Journal, 2021, 425, 131658. | 12.7 | 42 |
| 29 | Enhancement of the non-thermal plasma-catalytic system with different zeolites for toluene removal. RSC Advances, 2015, 5, 72113-72120. | 3.6 | 41 |
| 30 | Modulate the metal support interactions to optimize the surface-interface features of Pt/CeO2 catalysts for enhancing the toluene oxidation. Journal of Hazardous Materials, 2022, 424, 127505. | 12.4 | 40 |
| 31 | Insights into CO2 adsorption on KOH-activated biochars derived from the mixed sewage sludge and pine sawdust. Science of the Total Environment, 2022, 826, 154133. | 8.0 | 40 |
| 32 | TiO<sub>2</sub>@UiOâ€66 Composites with Efficient Adsorption and Photocatalytic Oxidation of VOCs: Investigation of Synergistic Effects and Reaction Mechanism. ChemCatChem, 2021, 13, 581-591. | 3.7 | 37 |
| 33 | Insight into the roles of endogenous minerals in the activation of persulfate by graphitized biochar for tetracycline removal. Science of the Total Environment, 2021, 768, 144281. | 8.0 | 35 |
| 34 | Enhanced performance of low Pt loading amount on Pt-CeO2 catalysts prepared by adsorption method for catalytic ozonation of toluene. Applied Catalysis A: General, 2021, 625, 118342. | 4.3 | 35 |
| 35 | Controllable transformation from 1D Co-MOF-74 to 3D CoCO<sub>3</sub> and Co<sub>3</sub>O<sub>4</sub> with ligand recovery and tunable morphologies: the assembly process and boosting VOC degradation. Journal of Materials Chemistry A, 2021, 9, 6890-6897. | 10.3 | 34 |
| 36 | Transient inâ€situ DRIFTS Investigation of Catalytic Oxidation of Toluene over Î±â€, Î³â€and Î²â€MnO<sub>2</sub>. ChemCatChem, 2020, 12, 1046-1054. | 3.7 | 33 |

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|---|---|---|---|
| 37 | Morphology-activity correlation of electrospun CeO2 for toluene catalytic combustion. Chemosphere, 2020, 247, 125860. | 8.2 | 32 |
| 38 | Chemisorbed Superoxide Species Enhanced the High Catalytic Performance of Ag/Co<sub>3</sub>O<sub>4</sub> Nanocubes for Soot Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 21436-21449. | 8.0 | 32 |
| 39 | Plasma-Catalytic CO<sub>2</sub> Hydrogenation over a Pd/ZnO Catalyst: In Situ Probing of Gas-Phase and Surface Reactions. Jacs Au, 2022, 2, 1800-1810. | 7.9 | 32 |
| 40 | Enhancement of catalytic toluene combustion over Ptâ€“Co3O4 catalyst through in-situ metal-organic template conversion. Chemosphere, 2021, 262, 127738. | 8.2 | 31 |
| 41 | Nonthermal plasma catalysis for toluene decomposition over BaTiO3-based catalysts by Ce doping at A-sites: The role of surface-reactive oxygen species. Journal of Hazardous Materials, 2021, 405, 124156. | 12.4 | 31 |
| 42 | Highly efficient adsorptive removal of toluene using silicon-modified activated carbon with improved fire resistance. Journal of Hazardous Materials, 2021, 415, 125753. | 12.4 | 28 |
| 43 | Plasma-Catalytic Oxidation of Toluene on MnxOy at Atmospheric Pressure and Room Temperature. Plasma Chemistry and Plasma Processing, 2014, 34, 1141-1156. | 2.4 | 26 |
| 44 | Insight into the Improvement Effect of Nitrogen Dopant in Ag/Co3O4 Nanocubes for Soot Oxidation: Experimental and Theoretical Studies. Journal of Hazardous Materials, 2021, 420, 126604. | 12.4 | 25 |
| 45 | Unravelling Phosphorus-Induced Deactivation of Pd-SSZ-13 for Passive NO<sub>x</sub> Adsorption and CO Oxidation. ACS Catalysis, 2021, 11, 13891-13901. | 11.2 | 25 |
| 46 | Renewable biochar derived from mixed sewage sludge and pine sawdust for carbon dioxide capture. Environmental Pollution, 2022, 306, 119399. | 7.5 | 25 |
| 47 | Construction of Cu-Ce interface for boosting toluene oxidation: Study of Cu-Ce interaction and intermediates identified by in situ DRIFTS. Chinese Chemical Letters, 2021, 32, 3435-3439. | 9.0 | 24 |
| 48 | The lanthanide doping effect on toluene catalytic oxidation over Pt/CeO2 catalyst. Journal of Colloid and Interface Science, 2022, 614, 33-46. | 9.4 | 22 |
| 49 | Analysis of the characteristics of phosphine production by anaerobic digestion based on microbial community dynamics, metabolic pathways, and isolation of the phosphate-reducing strain. Chemosphere, 2021, 262, 128213. | 8.2 | 21 |
| 50 | Catalytic Performance of Toluene Combustion over Pt Nanoparticles Supported on Pore-Modified Macro-Meso-Microporous Zeolite Foam. Nanomaterials, 2020, 10, 30. | 4.1 | 19 |
| 51 | Pt/MnOx for toluene mineralization via ozonation catalysis at low temperature: SMSI optimization of surface oxygen species. Chemosphere, 2022, 286, 131754. | 8.2 | 18 |
| 52 | Reverse water-gas shift in a packed bed DBD reactor: Investigation of metal-support interface towards a better understanding of plasma catalysis. Applied Catalysis A: General, 2020, 591, 117407. | 4.3 | 17 |
| 53 | In-situ atmosphere thermal pyrolysis of spindle-like Ce(OH)CO3 to fabricate Pt/CeO2 catalysts: Enhancing Ptâ€“Oâ€“Ce bond intensity and boosting toluene degradation. Chemosphere, 2021, 279, 130658. | 8.2 | 17 |
| 54 | A high-performance and stable Cu/Beta for adsorption-catalytic oxidation in-situ destruction of low concentration toluene. Science of the Total Environment, 2022, 833, 155288. | 8.0 | 16 |

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|---|---|---|---|
| 55 | Removal of toluene in adsorptionâ€“discharge plasma systems over a nickel modified SBA-15 catalyst. RSC Advances, 2016, 6, 104104-104111. | 3.6 | 15 |
| 56 | Macroporous Ni foam-supported Co3O4 nanobrush and nanomace hybrid arrays for high-efficiency CO oxidation. Journal of Environmental Sciences, 2019, 75, 136-144. | 6.1 | 15 |
| 57 | CeO2-Supported Pt Catalysts Derived from MOFs by Two Pyrolysis Strategies to Improve the Oxygen Activation Ability. Nanomaterials, 2020, 10, 983. | 4.1 | 15 |
| 58 | Cu-VWT Catalysts for Synergistic Elimination of NO<sub>x</sub> and Volatile Organic Compounds from Coal-Fired Flue Gas. Environmental Science & Technology, 2022, 56, 10095-10104. | 10.0 | 15 |
| 59 | Effect of oxygen vacancy on the oxidation of toluene by ozone over Ag-Ce catalysts at low temperature. Applied Surface Science, 2022, 601, 154237. | 6.1 | 15 |
| 60 | 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. Inorganic Chemistry, 2020, 59, 3062-3071. | 4.0 | 13 |
| 61 | Effects of Zr substitution on soot combustion over cubic fluorite-structured nanoceria: Soot-ceria contact and interfacial oxygen evolution. Journal of Environmental Sciences, 2021, 101, 293-303. | 6.1 | 12 |
| 62 | The Study of Reverse Water Gas Shift Reaction Activity over Different Interfaces: The Design of Cu-Plate ZnO Model Catalysts. Catalysts, 2020, 10, 533. | 3.5 | 11 |
| 63 | Investigation into the roles of different oxygen species in toluene oxidation over manganese-supported platinum catalysts. Molecular Catalysis, 2021, 507, 111569. | 2.0 | 10 |
| 64 | Interfaces in MOF-Derived CeO2â€“MnOX Composites as High-Activity Catalysts for Toluene Oxidation: Monolayer Dispersion Threshold. Catalysts, 2020, 10, 681. | 3.5 | 9 |
| 65 | Effect of plasma on catalytic conversion of CO<sub>2</sub> with hydrogen over Pd/ZnO in a dielectric barrier discharge reactor. Journal Physics D: Applied Physics, 2019, 52, 244001. | 2.8 | 8 |
| 66 | Unraveling specific role of carbon matrix over Pd/quasi-Ce-MOF facilitating toluene enhanced degradation. Journal of Rare Earths, 2022, 40, 1751-1762. | 4.8 | 7 |
| 67 | Tuning the local electronic structure of SrTiO3 catalysts to boost plasma-catalytic interfacial synergy. Journal of Hazardous Materials, 2022, 428, 128172. | 12.4 | 7 |
| 68 | Porous stainless-steel fibers supported CuCeFeOx/Zeolite catalysts for the enhanced CO oxidation: Experimental and kinetic studies. Chemosphere, 2022, 291, 132778. | 8.2 | 6 |