

Fawei Lin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/220758/publications.pdf>

Version: 2024-02-01

61
papers

2,137
citations

218677

26
h-index

254184

43
g-index

61
all docs

61
docs citations

61
times ranked

1460
citing authors

#	ARTICLE	IF	CITATIONS
1	How to achieve complete elimination of Cl-VOCs: A critical review on byproducts formation and inhibition strategies during catalytic oxidation. Chemical Engineering Journal, 2021, 404, 126534.	12.7	132
2	Flue gas treatment with ozone oxidation: An overview on NO _x , organic pollutants, and mercury. Chemical Engineering Journal, 2020, 382, 123030.	12.7	129
3	Catalytic deep oxidation of NO by ozone over MnO _x loaded spherical alumina catalyst. Applied Catalysis B: Environmental, 2016, 198, 100-111.	20.2	106
4	Comparative investigation on catalytic ozonation of VOCs in different types over supported MnO catalysts. Journal of Hazardous Materials, 2020, 391, 122218.	12.4	106
5	A critical review on energy recovery and non-hazardous disposal of oily sludge from petroleum industry by pyrolysis. Journal of Hazardous Materials, 2021, 406, 124706.	12.4	99
6	Low temperature catalytic ozonation of toluene in flue gas over Mn-based catalysts: Effect of support property and SO ₂ /water vapor addition. Applied Catalysis B: Environmental, 2020, 266, 118662.	20.2	93
7	Pyrolysis of typical MSW components by Py-GC/MS and TG-FTIR. Fuel, 2019, 251, 693-708.	6.4	90
8	Nitrogen, sulfur, chlorine containing pollutants releasing characteristics during pyrolysis and combustion of oily sludge. Fuel, 2020, 273, 117772.	6.4	86
9	Effects of supports on bimetallic Pd-Cu catalysts for CO ₂ hydrogenation to methanol. Applied Catalysis A: General, 2019, 585, 117210.	4.3	65
10	Ceria substrate-oxide composites as catalyst for highly efficient catalytic oxidation of NO by O ₂ . Fuel, 2016, 166, 352-360.	6.4	61
11	Characteristics of O ₃ Oxidation for Simultaneous Desulfurization and Denitration with Limestone-Gypsum Wet Scrubbing: Application in a Carbon Black Drying Kiln Furnace. Energy & Fuels, 2016, 30, 2302-2308.	5.1	59
12	Comparative Investigation on Chlorobenzene Oxidation by Oxygen and Ozone over a MnO _x /Al ₂ O ₃ Catalyst in the Presence of SO ₂ . Environmental Science & Technology, 2021, 55, 3341-3351.	10.0	59
13	Comprehensive review on catalytic degradation of Cl-VOCs under the practical application conditions. Critical Reviews in Environmental Science and Technology, 2022, 52, 311-355.	12.8	54
14	N ₂ O ₅ Formation Mechanism during the Ozone-Based Low-Temperature Oxidation deNO _x Process. Energy & Fuels, 2016, 30, 5101-5107.	5.1	51
15	Hazardous elements flow during pyrolysis of oily sludge. Journal of Hazardous Materials, 2021, 409, 124986.	12.4	47
16	Transformation of nitrogen, sulfur and chlorine during waste tire pyrolysis. Journal of Analytical and Applied Pyrolysis, 2021, 153, 104987.	5.5	44
17	Catalytic oxidation of NO by O ₂ over CeO ₂ -MnO _x : SO ₂ poisoning mechanism. RSC Advances, 2016, 6, 31422-31430.	3.6	38
18	An investigation of an oxygen-enriched combustion of municipal solid waste on flue gas emission and combustion performance at a 8-MWth waste-to-energy plant. Waste Management, 2019, 96, 47-56.	7.4	37

#	ARTICLE	IF	CITATIONS
19	Products distribution and pollutants releasing characteristics during pyrolysis of waste tires under different thermal process. <i>Journal of Hazardous Materials</i> , 2022, 424, 127351.	12.4	37
20	Study of scrap tires pyrolysis “ Products distribution and mechanism. <i>Energy</i> , 2020, 213, 119038.	8.8	36
21	The role of seashell wastes in TiO ₂ /Seashell composites: Photocatalytic degradation of methylene blue dye under sunlight. <i>Environmental Research</i> , 2020, 188, 109831.	7.5	35
22	Enhancement of NO oxidation activity and SO ₂ resistance over LaMnO ₃ +Î perovskites catalysts with metal substitution and acid treatment. <i>Applied Surface Science</i> , 2019, 479, 234-246.	6.1	34
23	Utilization of edible fungi residues towards synthesis of high-performance porous carbon for effective sorption of Cl-VOCs. <i>Science of the Total Environment</i> , 2020, 727, 138475.	8.0	33
24	Multi-step separation of different chemical groups from the heavy fraction in biomass fast pyrolysis oil. <i>Fuel Processing Technology</i> , 2020, 202, 106366.	7.2	33
25	Efficient degradation of multiple Cl-VOCs by catalytic ozonation over MnO catalysts with different supports. <i>Chemical Engineering Journal</i> , 2022, 435, 134807.	12.7	33
26	Fast characterization of biomass and waste by infrared spectra and machine learning models. <i>Journal of Hazardous Materials</i> , 2020, 387, 121723.	12.4	29
27	MnO fabrication with rational design of morphology for enhanced activity in NO oxidation and SO ₂ resistance. <i>Applied Surface Science</i> , 2020, 503, 144064.	6.1	28
28	Ozone Production with Dielectric Barrier Discharge from Air: The Influence of Pulse Polarity. <i>Ozone: Science and Engineering</i> , 2018, 40, 494-502.	2.5	26
29	Investigation of NO Removal with Ozone Deep Oxidation in Na ₂ CO ₃ Solution. <i>Energy & Fuels</i> , 2019, 33, 4454-4461.	5.1	24
30	Pollutants formation, distribution, and reaction mechanism during WT pyrolysis: A review. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 157, 105218.	5.5	24
31	Biomass combustion: Environmental impact of various precombustion processes. <i>Journal of Cleaner Production</i> , 2020, 261, 121217.	9.3	22
32	Co-precipitation Synthesized MnO _x -CeO ₂ Mixed Oxides for NO Oxidation and Enhanced Resistance to Low Concentration of SO ₂ by Metal Addition. <i>Catalysts</i> , 2019, 9, 519.	3.5	21
33	Catalytic deep degradation of Cl-VOCs with the assistance of ozone at low temperature over MnO ₂ catalysts. <i>Chemical Engineering Journal</i> , 2021, 426, 130814.	12.7	21
34	Synergistic effect for simultaneously catalytic ozonation of chlorobenzene and NO over MnCoO catalysts: Byproducts formation under practical conditions. <i>Chemical Engineering Journal</i> , 2022, 427, 130929.	12.7	21
35	Interplay effect on simultaneous catalytic oxidation of NO and toluene over different crystal types of MnO ₂ catalysts. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5433-5441.	3.9	20
36	A review on bioenergy production from duckweed. <i>Biomass and Bioenergy</i> , 2022, 161, 106468.	5.7	20

#	ARTICLE	IF	CITATIONS
37	Effects of reaction conditions on products and elements distribution via hydrothermal liquefaction of duckweed for wastewater treatment. <i>Bioresource Technology</i> , 2020, 317, 124033.	9.6	19
38	Promotional effect of spherical alumina loading with manganese-based bimetallic oxides on nitric-oxide deep oxidation by ozone. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1270-1280.	14.0	18
39	A facile and green strategy to synthesize N/P co-doped bio-porous carbon with high yield from fungi residue for efficient VOC adsorption. <i>Separation and Purification Technology</i> , 2021, 276, 119291.	7.9	18
40	Catalytic ozonation of CH ₂ Cl ₂ over hollow urchin-like MnO ₂ with regulation of active oxygen by catalyst modification and ozone promotion. <i>Journal of Hazardous Materials</i> , 2022, 436, 129217.	12.4	18
41	CO ₂ hydrogenation to methanol over bimetallic Pd-Cu catalysts supported on TiO ₂ -CeO ₂ and TiO ₂ -ZrO ₂ . <i>Catalysis Today</i> , 2020, 371, 150-150.	4.4	17
42	Triple combination of natural microbial action, etching, and gas foaming to synthesize hierarchical porous carbon for efficient adsorption of VOCs. <i>Environmental Research</i> , 2021, 202, 111687.	7.5	17
43	Migration of chlorinated compounds on products quality and dioxins releasing during pyrolysis of oily sludge with high chlorine content. <i>Fuel</i> , 2021, 306, 121744.	6.4	17
44	Hydrogen Production via Aqueous-Phase Reforming of Ethylene Glycol over a Nickel-iron Alloy Catalyst: Effect of Cobalt Addition. <i>Energy & Fuels</i> , 2020, 34, 1153-1161.	5.1	15
45	Photocatalytic mineralization of indoor VOC mixtures over unique ternary TiO ₂ /C/MnO ₂ with high adsorption selectivity. <i>Chemical Engineering Journal</i> , 2021, 425, 131678.	12.7	15
46	Theoretical and experimental study of gas-phase corrosion attack of Fe under simulated municipal solid waste combustion: Influence of KCl, SO ₂ , HCl, and H ₂ O vapour. <i>Applied Energy</i> , 2019, 247, 630-642.	10.1	12
47	Evaluation on energetic and economic benefits of the coupling anaerobic digestion and gasification from agricultural wastes. <i>Renewable Energy</i> , 2021, 176, 494-503.	8.9	12
48	Catalytic pyrolysis of oily sludge with iron-containing waste for production of high-quality oil and H ₂ -rich gas. <i>Fuel</i> , 2022, 326, 124995.	6.4	12
49	Agaricus bisporus residue-derived Fe/N co-doped carbon materials as an efficient electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34737-34748.	7.1	11
50	Catalytic Decomposition of Residual Ozone over Cactus-like MnO ₂ Nanosphere: Synergistic Mechanism and SO ₂ /H ₂ O Interference. <i>ACS Omega</i> , 2022, 7, 9818-9833.	3.5	11
51	Effects of inherent minerals on oily sludge pyrolysis: Kinetics, products, and secondary pollutants. <i>Chemical Engineering Journal</i> , 2021, 431, 133218.	12.7	10
52	Catalytic Reforming: A Potentially Promising Method for Treating and Utilizing Wastewater from Biogas Plants. <i>Environmental Science & Technology</i> , 2020, 54, 577-585.	10.0	9
53	Insoluble matrix proteins from shell waste for synthesis of visible-light response photocatalyst to mineralize indoor gaseous formaldehyde. <i>Journal of Hazardous Materials</i> , 2021, 415, 125649.	12.4	9
54	Transformation and regulation of nitrogen and sulfur during pyrolysis of oily sludge with N/S model compounds. <i>Fuel</i> , 2022, 324, 124651.	6.4	9

#	ARTICLE	IF	CITATIONS
55	Catalyst tolerance to SO ₂ and water vapor of Mn based bimetallic oxides for NO deep oxidation by ozone. RSC Advances, 2017, 7, 25132-25143.	3.6	8
56	The Benefits of Small Quantities of Nitrogen in the Oxygen Feed to Ozone Generators. Ozone: Science and Engineering, 2018, 40, 313-320.	2.5	6
57	Fast elimination of cable fire smoke in underground tunnels using acoustic agglomeration technology. Tunnelling and Underground Space Technology, 2021, 117, 104154.	6.2	6
58	Utilizing waste duckweed from phytoremediation to synthesize highly efficient Fe N C catalysts for oxygen reduction reaction electrocatalysis. Science of the Total Environment, 2022, 819, 153115.	8.0	5
59	Decomposition of N ₂ O on ZIF-67-Derived Co/CoO _x @Carbon Catalysts and SO ₂ Interference. Energy & Fuels, 2021, 35, 18664-18679.	5.1	4
60	Pyrolysis Behaviors and Residue Properties of Iron-Rich Rolling Sludge from Steel Smelting. International Journal of Environmental Research and Public Health, 2022, 19, 2152.	2.6	4
61	Co-pyrolysis of oil sludge with hydrogen-rich plastics in a vertical stirring reactor: Kinetic analysis, emissions, and products. Frontiers of Environmental Science and Engineering, 2022, 16, .	6.0	2