

Xiao

List of Publications by Year in descending order

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64
papers

2,903
citations

159585

30
h-index

175258

52
g-index

64
all docs

64
docs citations

64
times ranked

2972
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of biochar for the management of contaminated soil: Preparation, application and prospect. <i>Science of the Total Environment</i> , 2019, 659, 473-490.	8.0	310
2	Iron-doped Mn-Ce/TiO ₂ catalyst for low temperature selective catalytic reduction of NO with NH ₃ . <i>Journal of Environmental Sciences</i> , 2010, 22, 1447-1454.	6.1	176
3	Application of biochar and its composites in catalysis. <i>Chemosphere</i> , 2020, 240, 124842.	8.2	153
4	Simultaneous removal of NO and Hg ⁰ over Ce-Cu modified V ₂ O ₅ /TiO ₂ based commercial SCR catalysts. <i>Journal of Hazardous Materials</i> , 2017, 330, 83-92.	12.4	132
5	A comprehensive assessment of human exposure to phthalates from environmental media and food in Tianjin, China. <i>Journal of Hazardous Materials</i> , 2014, 279, 133-140.	12.4	126
6	A comparative study of Mn/CeO ₂ , Mn/ZrO ₂ and Mn/Ce-ZrO ₂ for low temperature selective catalytic reduction of NO with NH ₃ in the presence of SO ₂ and H ₂ O. <i>Journal of Environmental Sciences</i> , 2013, 25, 791-800.	6.1	118
7	Biochar/iron (BC/Fe) composites for soil and groundwater remediation: Synthesis, applications, and mechanisms. <i>Chemosphere</i> , 2020, 246, 125609.	8.2	115
8	Simultaneous Removal of NO and Hg ⁰ from Flue Gas over Mn-Ce/Ti-PILCs. <i>Environmental Science & Technology</i> , 2015, 49, 9355-9363.	10.0	112
9	Thiol-modified biochar synthesized by a facile ball-milling method for enhanced sorption of inorganic Hg ²⁺ and organic CH ₃ Hg ⁺ . <i>Journal of Hazardous Materials</i> , 2020, 384, 121357.	12.4	102
10	Removal of element mercury by medicine residue derived biochars in presence of various gas compositions. <i>Journal of Hazardous Materials</i> , 2015, 298, 162-169.	12.4	95
11	The behavior of the manganese-cerium loaded metal-organic framework in elemental mercury and NO removal from flue gas. <i>Chemical Engineering Journal</i> , 2017, 326, 551-560.	12.7	75
12	Emission control strategies of hazardous trace elements from coal-fired power plants in China. <i>Journal of Environmental Sciences</i> , 2020, 93, 66-90.	6.1	74
13	UiO-66 and its Br-modified derivatives for elemental mercury removal. <i>Journal of Hazardous Materials</i> , 2016, 320, 556-563.	12.4	70
14	Effects of flue gas components on removal of elemental mercury over Ce-MnO _x /Ti-PILCs. <i>Journal of Hazardous Materials</i> , 2016, 304, 10-17.	12.4	67
15	Homogeneous MnO-CeO ₂ pellets prepared by a one-step hydrolysis process for low-temperature NH ₃ -SCR. <i>Powder Technology</i> , 2014, 253, 152-157.	4.2	64
16	The emission of PM _{2.5} in respiratory zone from Chinese family cooking and its health effect. <i>Science of the Total Environment</i> , 2019, 654, 671-677.	8.0	58
17	Review on the NO removal from flue gas by oxidation methods. <i>Journal of Environmental Sciences</i> , 2021, 101, 49-71.	6.1	57
18	Fundamental studies of carbon capture using CaO-based materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9977-9987.	10.3	50

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19	Pyrolysis of scrap tyres with zeolite USY. <i>Journal of Hazardous Materials</i> , 2006, 137, 1065-1073.	12.4	44
20	Elucidating the pyrolysis reaction mechanism of <i>Calotropis procera</i> and analysis of pyrolysis products to evaluate its potential for bioenergy and chemicals. <i>Bioresource Technology</i> , 2021, 322, 124545.	9.6	42
21	Critical assessment of reaction pathways for conversion of agricultural waste biomass into formic acid. <i>Green Chemistry</i> , 2021, 23, 1536-1561.	9.0	42
22	Development of a novel chem-bio hybrid process using biochar supported nanoscale iron sulfide composite and <i>Corynebacterium variabile</i> HRJ4 for enhanced trichloroethylene dechlorination. <i>Water Research</i> , 2018, 147, 132-141.	11.3	41
23	Superhydrophobic-superoleophilic biochar-based foam for high-efficiency and repeatable oil-water separation. <i>Science of the Total Environment</i> , 2021, 780, 146517.	8.0	39
24	Mn-CeO _x /Ti-PILCs for selective catalytic reduction of NO with NH ₃ at low temperature. <i>Journal of Environmental Sciences</i> , 2012, 24, 499-506.	6.1	38
25	MIL-100(Fe) supported Mn-based catalyst and its behavior in Hg ⁰ removal from flue gas. <i>Journal of Hazardous Materials</i> , 2020, 381, 121003.	12.4	37
26	Enhanced hydrogen production from catalytic biomass gasification with in-situ CO ₂ capture. <i>Environmental Pollution</i> , 2020, 267, 115487.	7.5	37
27	Hg ²⁺ Adsorption from a Low-Concentration Aqueous Solution on Chitosan Beads Modified by Combining Polyamination with Hg ²⁺ -Imprinted Technologies. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13120-13127.	3.7	35
28	Mechanochemical-assisted production of 5-hydroxymethylfurfural from high concentration of cellulose. <i>Cellulose</i> , 2020, 27, 3013-3023.	4.9	35
29	Crab Shell-Derived Lotus Rootlike Porous Carbon for High Efficiency Isomerization of Glucose to Fructose under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4466-4472.	6.7	34
30	Promotion effect of Ni doping on the oxygen resistance property of Fe/CeO ₂ catalyst for CO-SCR reaction: Activity test and mechanism investigation. <i>Journal of Hazardous Materials</i> , 2022, 431, 128622.	12.4	34
31	A comparative study of manganese-cerium doped metal-organic frameworks prepared via impregnation and in situ methods in the selective catalytic reduction of NO. <i>RSC Advances</i> , 2017, 7, 5928-5936.	3.6	33
32	Constructing Defect-Rich MoS ₂ /N-Doped Carbon Nanosheets for Catalytic Polysulfide Conversion in Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13318-13327.	6.7	33
33	Ball-milled biochar for alternative carbon electrode. <i>Environmental Science and Pollution Research</i> , 2019, 26, 14693-14702.	5.3	30
34	Hierarchically porous biochar synthesized with CaCO ₃ template for efficient Hg ⁰ adsorption from flue gas. <i>Fuel Processing Technology</i> , 2020, 199, 106247.	7.2	28
35	Recycling of spent alkaline Zn-Mn batteries directly: Combination with TiO ₂ to construct a novel Z-scheme photocatalytic system. <i>Journal of Hazardous Materials</i> , 2020, 400, 123236.	12.4	27
36	Enhanced photocatalytic degradation of xylene by blackening TiO ₂ nanoparticles with high dispersion of CuO. <i>Journal of Hazardous Materials</i> , 2020, 391, 121642.	12.4	27

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37	Chlorella vulgaris cultivation in simulated wastewater for the biomass production, nutrients removal and CO ₂ fixation simultaneously. Journal of Environmental Management, 2021, 284, 112070.	7.8	27
38	The emission characteristic of VOCs and the toxicity of BTEX from different mosquito-repellent incenses. Journal of Hazardous Materials, 2020, 384, 121428.	12.4	26
39	Synergetic Effect of Nitrogen/Sulfur Dual-Doped Hierarchically Porous Carbon Networks for Li ⁺ S Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 749-758.	6.7	23
40	Pyrolysis and Thermogravimetric Study to Elucidate the Bioenergy Potential of Novel Feedstock Produced on Poor Soils While Keeping the Environmental Sustainability Intact. Sustainability, 2019, 11, 3592.	3.2	20
41	Suitable lithium polysulfides diffusion and adsorption on CNTs@TiO ₂ -bronze nanosheets surface for high-performance lithium-sulfur batteries. Nano Research, 2022, 15, 933-941.	10.4	20
42	Exposure characteristics and risk assessment of VOCs from Chinese residential cooking. Journal of Environmental Management, 2021, 289, 112535.	7.8	18
43	Abatement of NO/SO ₂ /Hg ₀ from flue gas by advanced oxidation processes (AOPs): Tech-category, status quo and prospects. Science of the Total Environment, 2022, 806, 150958.	8.0	17
44	Influence of thermal assistance on the biodegradation of organics during food waste bio-drying: Microbial stimulation and energy assessment. Chemosphere, 2021, 272, 129875.	8.2	16
45	Start-up performance of Anammox process in a fixed bed reactor (FBR) filled with honeycomb-like polypropylene carriers. Water Science and Technology, 2016, 73, 1848-1854.	2.5	15
46	Comprehensive utilization of dairy manure to produce glucose and hierarchical porous carbon for supercapacitors. Cellulose, 2017, 24, 2571-2579.	4.9	15
47	Mechanism of the Heterogeneous Reduction of NO on a Sodium-Doped Char Surface: A First-Principles Study. Journal of Physical Chemistry C, 2021, 125, 24381-24395.	3.1	12
48	MnO _x /Ce _{0.6} Zr _{0.4} O ₂ Catalysts for Low-Temperature Selective Catalytic Reduction of NO _x with NH ₃ . Environmental Engineering Science, 2011, 28, 291-298.	1.6	11
49	Effect of K and Ca on catalytic activity of Mn-CeO _x /Ti-PILC. Frontiers of Environmental Science and Engineering, 2013, 7, 512-517.	6.0	11
50	Comparative Study of NO Oxidation under a Low O ₃ /NO Molar Ratio Using 15% Mn/TiO ₂ , 15% Co/TiO ₂ , and 15% Mn ²⁺ Co(2:1)/TiO ₂ Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 1467-1476.	3.7	11
51	Synthesis of a novel cross-linker doubles as a functional monomer for preparing a water compatible molecularly imprinted polymer. Analytical Methods, 2014, 6, 9483-9489.	2.7	10
52	Enhanced oxidative removal of NO by UV/in situ Fenton: Factors, kinetics and simulation. Science of the Total Environment, 2021, 778, 146202.	8.0	9
53	Mn-based catalysts supported on γ -Al ₂ O ₃ , TiO ₂ and MCM-41: a comparison for low-temperature NO oxidation with low ratio of O ₃ /NO. RSC Advances, 2021, 11, 18945-18959.	3.6	8
54	The Impact of Alternative Fuels on Ship Engine Emissions and Aftertreatment Systems: A Review. Catalysts, 2022, 12, 138.	3.5	7

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55	Low-temperature selective catalytic reduction of NO with NH ₃ based on MnO _x -CeO _x /ACFN. <i>Frontiers of Chemical Engineering in China</i> , 2008, 2, 325-329.	0.6	6
56	Removal of elemental mercury by KI-impregnated clay. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 236-243.	6.0	6
57	Kinetics study on the capture of elemental mercury in flue gas by KI-impregnated clays. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 2168-2176.	1.7	5
58	Catalytic oxidation of NO over MnO _x /CoO _x /TiO ₂ in the presence of a low ratio of O ₃ /NO: activity and mechanism. <i>RSC Advances</i> , 2020, 10, 24493-24506.	3.6	4
59	Effects of system parameters and residual ions on the oxidation removal of NO by Fenton method. <i>Environmental Science and Pollution Research</i> , 2021, 28, 2959-2971.	5.3	4
60	Random pore structure and REV scale flow analysis of engine particulate filter based on LBM. <i>Open Physics</i> , 2020, 18, 881-896.	1.7	4
61	A composite photocatalytic system based on spent alkaline Zn-Mn batteries for toluene removal under multiple conditions. <i>Environmental Research</i> , 2022, 212, 113300.	7.5	3
62	Optimization of a Fenton-based gas-liquid two-phase reactor for NO _x removal. <i>Chemical Engineering Communications</i> , 2021, 208, 937-949.	2.6	2
63	The flow and heat transfer characteristics of DPF porous media with different structures based on LBM. <i>Open Physics</i> , 2022, 20, 349-369.	1.7	2
64	Vacancy Associates Evoked Hematite Mesocubes with Enhanced Efficiency in Li Storage Behaviors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23377-23384.	3.1	1