

# Yongsheng Zhang

## List of Publications by Year in descending order

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79  
papers

2,615  
citations

186265  
28  
h-index

214800  
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79  
all docs

79  
docs citations

79  
times ranked

1825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen-enriched coal-based porous carbon under plasma-assisted MgCO <sub>3</sub> activation as supercapacitor electrodes. <i>Fuel</i> , 2022, 309, 122168.	6.4	30
2	Supercritical CO <sub>2</sub> coupled with mechanical force to enhance carbonation of fly ash and heavy metal solidification. <i>Fuel</i> , 2022, 315, 123154.	6.4	18
3	Distribution characteristics and environmental risk assessment of trace elements in desulfurization sludge from coal-fired power plants. <i>Fuel</i> , 2022, 314, 122771.	6.4	22
4	Application of mechanochemical technology for removal/solidification pollutant and preparation/recycling energy storage materials. <i>Journal of Cleaner Production</i> , 2022, 348, 131351.	9.3	6
5	Mineralization characteristics of coal fly ash in the transition from non-supercritical CO <sub>2</sub> to supercritical CO <sub>2</sub> . <i>Fuel</i> , 2022, 318, 123636.	6.4	15
6	Highly efficient capacitive removal of Cd <sup>2+</sup> over MoS <sub>2</sub> -Carbon framework composite material in desulphurisation wastewater from coal-fired power plants. <i>Journal of Cleaner Production</i> , 2022, 355, 131814.	9.3	11
7	A novel modified method for the efficient removal of Pb and Cd from wastewater by biochar: Enhanced the ion exchange and precipitation capacity. <i>Science of the Total Environment</i> , 2021, 754, 142150.	8.0	245
8	Removal of ionic mercury from gasoline using zeolite 13X impregnated with KI: Adsorption mechanisms and simulation. <i>Chemical Engineering Journal</i> , 2021, 409, 128170.	12.7	11
9	Preparation of energy storage materials working at 20–25 °C as a cold source for long-term stable operation. <i>Applied Thermal Engineering</i> , 2021, 183, 116220.	6.0	6
10	Performance of a thermally regenerative ammonia-based battery using gradient-porous copper foam electrodes. <i>Science China Technological Sciences</i> , 2021, 64, 696-704.	4.0	6
11	Mechanochemistry coupled with MgCO <sub>3</sub> one-step activation to prepare coal-based hierarchical porous carbon for supercapacitors. <i>Journal of Power Sources</i> , 2021, 503, 230049.	7.8	18
12	Investigating the effect of flue gas temperature and excess air coefficient on the size distribution of condensable particulate matters. <i>Fuel</i> , 2021, 298, 120866.	6.4	8
13	Impact of the mercury removal system using modified fly ash on particulate matter emission. <i>Fuel</i> , 2021, 301, 121054.	6.4	5
14	Molecular-level insights into the immobilization of vapor-phase mercury on Fe/Co/Ni-doped hierarchical molybdenum selenide. <i>Journal of Hazardous Materials</i> , 2021, 420, 126583.	12.4	7
15	Significant enhancement of VOCs conversion by facile mechanochemistry coupled MnO <sub>2</sub> modified fly ash: Mechanism and application. <i>Fuel</i> , 2021, 304, 121443.	6.4	9
16	Mechanochemical stabilization of heavy metals in fly ash from coal-fired power plants via dry milling and wet milling. <i>Waste Management</i> , 2021, 135, 428-436.	7.4	28
17	Mercury emissions and distribution in a waste incineration plant based on the 30B and Ontario Hydro methods. <i>Journal of Cleaner Production</i> , 2021, 328, 129663.	9.3	3
18	Effect of modified fly ash injection on As, Se, and Pb emissions in coal-fired power plant. <i>Chemical Engineering Journal</i> , 2020, 380, 122561.	12.7	56

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19	Catalytic conversion of mercury over Ce doped Mn/SAPO-34 catalyst: Sulphur tolerance and SO <sub>2</sub> /SO <sub>3</sub> conversion. <i>Journal of Hazardous Materials</i> , 2020, 381, 120986.	12.4	33
20	Arsenic release and transformation in co-combustion of biomass and coal: Effect of mineral elements and volatile matter in biomass. <i>Bioresource Technology</i> , 2020, 297, 122388.	9.6	21
21	Enhancing the pore wettability of coal-based porous carbon as electrode materials for high performance supercapacitors. <i>Materials Chemistry and Physics</i> , 2020, 252, 123381.	4.0	38
22	Speciation analysis of Hg, As, Pb, Cd, and Cr in fly ash at different ESP's hoppers. <i>Fuel</i> , 2020, 280, 118688.	6.4	16
23	Derivation of oxygen-containing functional groups on biochar under non-oxygen plasma for mercury removal. <i>Fuel</i> , 2020, 275, 117879.	6.4	17
24	Preadsorbed SO <sub>3</sub> Inhibits Oxygen Atom Activity for Mercury Adsorption on Cu/Mn Doped CeO <sub>2</sub> (110) Surface. <i>Energy &amp; Fuels</i> , 2020, 34, 4734-4744.	5.1	12
25	Synthesis of O-doped coal-based carbon electrode materials by ultrasound-assisted bimetallic activation for application in supercapacitors. <i>Applied Surface Science</i> , 2020, 529, 147074.	6.1	36
26	High performance aqueous supercapacitor based on nitrogen-doped coal-based activated carbon electrode materials. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 77-87.	9.4	91
27	Ionic mercury captured by H <sub>2</sub> S sulfurized biochar in liquid hydrocarbons: Mechanism and stability evaluation. <i>Fuel</i> , 2020, 278, 118413.	6.4	20
28	Photocatalytic removal of elemental mercury on TiO <sub>2</sub> -BiOIO <sub>3</sub> heterostructures: Mercury transformation, sulfur tolerance and SO <sub>2</sub> /SO <sub>3</sub> conversion. <i>Chemical Engineering Journal</i> , 2020, 388, 124390.	12.7	27
29	Promotional effect of sulfur trioxide (SO <sub>3</sub> ) on elemental mercury removal over Cu/ZSM-5 catalyst. <i>Applied Surface Science</i> , 2020, 511, 145604.	6.1	16
30	Effect of annealing temperature on the continuity and conductivity of coal-based carbon films prepared by ball milling. <i>Applied Surface Science</i> , 2020, 510, 145411.	6.1	5
31	Combustion behaviour and chemical structure changes of enzyme-treated coal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 1287-1294.	3.6	3
32	Promotional effect of NH <sub>3</sub> on mercury removal over biochar thorough chlorine functional group transformation. <i>Journal of Cleaner Production</i> , 2020, 257, 120598.	9.3	21
33	Distribution and emission of speciated volatile organic compounds from a coal-fired power plant with ultra-low emission technologies. <i>Journal of Cleaner Production</i> , 2020, 264, 121686.	9.3	26
34	A review on adsorbent/catalyst application for mercury removal in flue gas: Effect of sulphur oxides (SO <sub>2</sub> , SO <sub>3</sub> ). <i>Journal of Cleaner Production</i> , 2020, 276, 124220.	9.3	31
35	Plasma Induced Addition of Active Functional Groups to Biochar for Elemental Mercury Removal. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 1449-1468.	2.4	17
36	Sensory characteristics of Maillard reaction products from chicken protein hydrolysates with different degrees of hydrolysis. <i>CYTA - Journal of Food</i> , 2019, 17, 221-227.	1.9	9

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37	The distribution of Pb(II)/Cd(II) adsorption mechanisms on biochars from aqueous solution: Considering the increased oxygen functional groups by HCl treatment. <i>Bioresource Technology</i> , 2019, 291, 121859.	9.6	141
38	Distribution of Organic Compounds in Coal-Fired Power Plant Emissions. <i>Energy &amp; Fuels</i> , 2019, 33, 5430-5437.	5.1	20
39	In-Situ Capture of Mercury in Coal-Fired Power Plants Using High Surface Energy Fly Ash. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7913-7920.	10.0	56
40	Effects of light intensity on larval development and juvenile growth of sea cucumber <i>Apostichopus japonicus</i> . <i>Aquaculture Research</i> , 2019, 50, 2333-2340.	1.8	9
41	Enhanced mercury removal by transplanting sulfur-containing functional groups to biochar through plasma. <i>Fuel</i> , 2019, 253, 703-712.	6.4	81
42	Coupling of bromide and on-line mechanical modified fly ash for mercury removal at a 1000MW coal-fired power plant. <i>Fuel</i> , 2019, 247, 179-186.	6.4	29
43	Reductions in Volatile Organic Compound Emissions from Coal-Fired Power Plants by Combining Air Pollution Control Devices and Modified Fly Ash. <i>Energy &amp; Fuels</i> , 2019, 33, 2926-2933.	5.1	40
44	Optimized methods for preparing activated carbon from rock asphalt using orthogonal experimental design. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1989-1999.	3.6	18
45	The effect of moisture on particulate matter measurements in an ultra-low emission power plant. <i>Fuel</i> , 2019, 238, 430-439.	6.4	25
46	Coeffect of Air Pollution Control Devices on Trace Element Emissions in an Ultralow Emission Coal-Fired Power Plant. <i>Energy &amp; Fuels</i> , 2019, 33, 248-256.	5.1	38
47	Emission of volatile organic compounds (VOCs) during coal combustion at different heating rates. <i>Fuel</i> , 2018, 225, 554-562.	6.4	76
48	Use of a non-thermal plasma technique to increase the number of chlorine active sites on biochar for improved mercury removal. <i>Chemical Engineering Journal</i> , 2018, 331, 536-544.	12.7	139
49	One-pot synthesis of N-fused 1,2,4-triazoles and related heterocycles via I <sub>2</sub> /TBHP-mediated oxidative C N bond formation. <i>Tetrahedron Letters</i> , 2018, 59, 4216-4220.	1.4	12
50	Synthesis and antibacterial activity evaluation of novel biaryloxazolidinone analogues containing a hydrazone moiety as promising antibacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2018, 158, 247-258.	5.5	38
51	Increasing the chlorine active sites in the micropores of biochar for improved mercury adsorption. <i>Fuel</i> , 2018, 229, 60-67.	6.4	83
52	Catalytic conversion of NO assisted by plasma over Mn-Ce/ZSM5-multi-walled carbon nanotubes composites: Investigation of acidity, activity and stability of catalyst in the synergic system. <i>Applied Surface Science</i> , 2018, 457, 187-199.	6.1	34
53	Full-Scale Demonstration of Enzyme-Treated Coal Combustion for Improved Energy Efficiency and Reduced Air Pollution. <i>Energy &amp; Fuels</i> , 2018, 32, 6584-6594.	5.1	10
54	Increasing Recovery Ratios with an Improved European Community Bureau of Reference Method for Mercury Analysis in Flue Gas Desulfurization Gypsum. <i>Energy &amp; Fuels</i> , 2018, 32, 8340-8347.	5.1	15

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55	Oxidation of elemental mercury with non-thermal plasma coupled with a wet process. <i>Fuel</i> , 2017, 197, 320-325.	6.4	19
56	A plasma-assisted catalytic system for NO removal over CuCe/ZSM-5 catalysts at ambient temperature. <i>Fuel Processing Technology</i> , 2017, 158, 199-205.	7.2	52
57	Study on the mercury captured by mechanochemical and bromide surface modification of coal fly ash. <i>Fuel</i> , 2017, 200, 427-434.	6.4	43
58	A Comparison of NO Reduction Over Mn-Cu/ZSM5 and Mn-Cu/MWCNTs Catalysts Assisted by Plasma at Ambient Temperature. <i>Catalysis Surveys From Asia</i> , 2017, 21, 94-102.	2.6	5
59	Thermogravimetric-Fourier Transform Infrared Spectroscopy-Gas Chromatography/Mass Spectrometry Study of Volatile Organic Compounds from Coal Pyrolysis. <i>Energy &amp; Fuels</i> , 2017, 31, 7042-7051.	5.1	24
60	Trace element (Hg, As, Cr, Cd, Pb) distribution and speciation in coal-fired power plants. <i>Fuel</i> , 2017, 208, 647-654.	6.4	62
61	Effect of Coordinated Air Pollution Control Devices in Coal-Fired Power Plants on Arsenic Emissions. <i>Energy &amp; Fuels</i> , 2017, 31, 7309-7316.	5.1	35
62	Kinetic studies of mercury adsorption in activated carbon modified by iodine steam vapor deposition method. <i>Fuel</i> , 2017, 188, 343-351.	6.4	62
63	Influences of NO on mercury adsorption characteristics for HBr modified fly ash. <i>International Journal of Coal Geology</i> , 2017, 170, 77-83.	5.0	22
64	Homogeneous mercury oxidation with bromine species released from HBr-modified fly ash. <i>Fuel</i> , 2016, 169, 58-67.	6.4	11
65	Using modified fly ash for mercury emissions control for coal-fired power plant applications in China. <i>Fuel</i> , 2016, 181, 1230-1237.	6.4	48
66	Fine particulate matter emission and size distribution characteristics in an ultra-low emission power plant. <i>Fuel</i> , 2016, 185, 863-871.	6.4	119
67	Mercury sorption properties of HBr-modified fly ash in a fixed bed reactor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 387-393.	3.6	7
68	Occurrence of uranium in Chinese coals and its emissions from coal-fired power plants. <i>Fuel</i> , 2016, 166, 404-409.	6.4	33
69	Synthesis of activated carbon from coal pitch for mercury removal in coal-fired power plants. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 851-860.	3.6	21
70	Temperature and emissions characteristics of a micro-mixing injection hydrogen-rich syngas flame diluted with N <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12550-12559.	7.1	23
71	Mercury adsorption characteristics of HBr-modified fly ash in an entrained-flow reactor. <i>Journal of Environmental Sciences</i> , 2015, 33, 156-162.	6.1	36
72	Partitioning effect of mercury content and speciation in gypsum slurry as a function of time. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1611-1618.	3.6	14

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73	Evaluation of elemental mercury adsorption by fly ash modified with ammonium bromide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1663-1672.	3.6	37
74	Influence of biomass on coal combustion based on thermogravimetry and Fourier transform infrared spectroscopy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 1289-1298.	3.6	16
75	Applications of thermal stepwise reactions on the co-gasification of coal and tobacco stems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 1205-1212.	3.6	4
76	Study of mercury adsorption by selected Chinese coal fly ashes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 1197-1203.	3.6	20
77	Effects of modified fly ash on mercury adsorption ability in an entrained-flow reactor. <i>Fuel</i> , 2014, 128, 274-280.	6.4	64
78	Synergistic effects of mineral matter on the combustion of coal blended with biomass. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 113, 489-496.	3.6	16
79	Reduction of Emissions from a Syngas Flame Using Micromixing and Dilution with CO <sub>2</sub> . <i>Energy &amp; Fuels</i> , 2012, 26, 6595-6601.	5.1	15