

Wen Xu

List of Publications by Year in descending order

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67
papers

4,571
citations

71102

41
h-index

98798

67
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all docs

67
docs citations

67
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on removal of mercury from flue gas utilizing existing air pollutant control devices (APCDs). <i>Journal of Hazardous Materials</i> , 2022, 427, 128132.	12.4	58
2	Removal of gaseous H ₂ S using microalgae porous carbons synthesized by thermal/microwave KOH activation. <i>Journal of the Energy Institute</i> , 2022, 101, 45-55.	5.3	15
3	A thermally activated double oxidants advanced oxidation system for gaseous H ₂ S removal: Mechanism and kinetics. <i>Chemical Engineering Journal</i> , 2022, 434, 134430.	12.7	26
4	Fe ²⁺ /heat-coactivated PMS oxidation-absorption system for H ₂ S removal from gas phase. <i>Separation and Purification Technology</i> , 2022, 286, 120458.	7.9	30
5	Oxidative removal of gaseous hydrogen sulfide by a dual ions-dual oxidants coupling activation system. <i>Chemical Engineering Research and Design</i> , 2022, 161, 454-465.	5.6	3
6	Biochars derived from by-products of microalgae pyrolysis for sorption of gaseous H ₂ S. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107370.	6.7	17
7	Photocatalytic, electrocatalytic and photoelectrocatalytic conversion of carbon dioxide: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 941-967.	16.2	68
8	Elemental mercury capture from industrial gas emissions using sulfides and selenides: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1395-1411.	16.2	26
9	Carbon dioxide capture using liquid absorption methods: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 77-109.	16.2	165
10	Gaseous Hydrogen Sulfide Removal Using Macroalgae Biochars Modified Synergistically by H ₂ /SO ₄ /H ₂ O ₂ . <i>Chemical Engineering and Technology</i> , 2021, 44, 698-709.	1.5	12
11	Porous Biochars Derived from Microalgae Pyrolysis for CO ₂ Adsorption. <i>Energy & Fuels</i> , 2021, 35, 7646-7656.	5.1	22
12	Adsorption of elemental mercury in flue gas using biomass porous carbons modified by microwave/hydrogen peroxide. <i>Fuel</i> , 2021, 291, 120152.	6.4	77
13	Experimental and kinetic study on Hg ⁰ removal by microwave/hydrogen peroxide modified seaweed-based porous biochars. <i>Environmental Technology and Innovation</i> , 2021, 22, 101411.	6.1	23
14	Hg ⁰ Removal by Straw Biochars Prepared with Clean Microwave/H ₂ O ₂ Modification. <i>Chemical Engineering and Technology</i> , 2021, 44, 1460-1469.	1.5	8
15	A review on arsenic removal from coal combustion: Advances, challenges and opportunities. <i>Chemical Engineering Journal</i> , 2021, 414, 128785.	12.7	68
16	A Critical Review on Removal of Gaseous Pollutants Using Sulfate Radical-based Advanced Oxidation Technologies. <i>Environmental Science & Technology</i> , 2021, 55, 9691-9710.	10.0	89
17	Review on Removal of SO ₂ , NO _x , Mercury, and Arsenic from Flue Gas Using Green Oxidation Absorption Technology. <i>Energy & Fuels</i> , 2021, 35, 9775-9794.	5.1	34
18	Removal of pollutants from gas streams using Fenton (-like)-based oxidation systems: A review. <i>Journal of Hazardous Materials</i> , 2021, 416, 125927.	12.4	45

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19	Removal of Elemental Mercury Using Seaweed Biomass-Based Porous Carbons Prepared from Microwave Activation and H ₂ O ₂ Modification. <i>Energy & Fuels</i> , 2021, 35, 2391-2401.	5.1	10
20	Preparation of Straw Porous Biochars by Microwave-Assisted KOH Activation for Removal of Gaseous H ₂ S. <i>Energy & Fuels</i> , 2021, 35, 18592-18603.	5.1	15
21	Adsorption of CO ₂ from flue gas by novel seaweed-based KOH-activated porous biochars. <i>Fuel</i> , 2020, 260, 116382.	6.4	185
22	Sorbents for hydrogen sulfide capture from biogas at low temperature: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 113-128.	16.2	49
23	Preparation of magnetic Co-Fe modified porous carbon from agricultural wastes by microwave and steam activation for mercury removal. <i>Journal of Hazardous Materials</i> , 2020, 381, 120981.	12.4	125
24	Novel Simultaneous Removal Technology of NO and SO ₂ Using a Semi-Dry Microwave Activation Persulfate System. <i>Environmental Science & Technology</i> , 2020, 54, 2031-2042.	10.0	70
25	Photocatalytic oxidation removal of elemental mercury from flue gas. A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 417-431.	16.2	40
26	Novel carbon-based sorbents for elemental mercury removal from gas streams: A review. <i>Chemical Engineering Journal</i> , 2020, 391, 123514.	12.7	112
27	Study on removal of gaseous hydrogen sulfide based on macroalgae biochars. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 73, 103068.	4.4	52
28	Review on Magnetic Adsorbents for Removal of Elemental Mercury from Flue Gas. <i>Energy & Fuels</i> , 2020, 34, 13473-13490.	5.1	51
29	Absorption of H ₂ S from Gas Streams by the Wet Ultraviolet/Persulfate Oxidation Process: Mechanism and Kinetics. <i>Energy & Fuels</i> , 2020, 34, 8037-8045.	5.1	21
30	Removal of CO ₂ from Flue Gas Using Seaweed Porous Carbons Prepared by Urea Doping and KOH Activation. <i>Energy & Fuels</i> , 2020, 34, 16411-16422.	5.1	15
31	Oxidation adsorption of hydrogen sulfide from gas stream using vacuum ultraviolet/H ₂ O ₂ /urea wet scrubbing system. <i>Chemical Engineering Research and Design</i> , 2020, 140, 348-355.	5.6	27
32	Removal of gaseous hydrogen sulfide using ultraviolet/Oxone-induced oxidation scrubbing system. <i>Chemical Engineering Journal</i> , 2020, 393, 124740.	12.7	36
33	A review on application of cerium-based oxides in gaseous pollutant purification. <i>Separation and Purification Technology</i> , 2020, 250, 117181.	7.9	79
34	Removal of nitric oxide from flue gas using novel microwave-activated double oxidants system. <i>Chemical Engineering Journal</i> , 2020, 393, 124754.	12.7	58
35	State-of-the-art review on capture of CO ₂ using adsorbents prepared from waste materials. <i>Chemical Engineering Research and Design</i> , 2020, 139, 1-25.	5.6	90
36	A review on coal fly ash-based adsorbents for mercury and arsenic removal. <i>Journal of Cleaner Production</i> , 2020, 267, 122143.	9.3	106

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37	Removal of Carbon Monoxide from Simulated Flue Gas Using Two New Fenton Systems: Mechanism and Kinetics. <i>Environmental Science & Technology</i> , 2019, 53, 10387-10397.	10.0	27
38	Removal of Elemental Mercury from Flue Gas Using Microwave/Ultrasound-Activated Ce ^{IV} /Fe Magnetic Porous Carbon Derived from Biomass Straw. <i>Energy & Fuels</i> , 2019, 33, 8394-8402.	5.1	39
39	Removal of Gaseous Hydrogen Sulfide by a Photo-Fenton Wet Oxidation Scrubbing System. <i>Energy & Fuels</i> , 2019, 33, 10812-10819.	5.1	33
40	Preparation of microwave-activated magnetic bio-char adsorbent and study on removal of elemental mercury from flue gas. <i>Science of the Total Environment</i> , 2019, 697, 134049.	8.0	101
41	Mercury removal from flue gas by magnetic iron-copper oxide modified porous char derived from biomass materials. <i>Fuel</i> , 2019, 256, 115977.	6.4	96
42	Removal of gaseous elemental mercury using seaweed chars impregnated by NH ₄ Cl and NH ₄ Br. <i>Journal of Cleaner Production</i> , 2019, 216, 277-287.	9.3	69
43	Elimination of nitric oxide using new Fenton process based on synergistic catalysis: Optimization and mechanism. <i>Chemical Engineering Journal</i> , 2019, 372, 92-98.	12.7	64
44	Oxidation removal of gaseous Hg ⁰ using enhanced-Fenton system in a bubble column reactor. <i>Fuel</i> , 2019, 246, 358-364.	6.4	76
45	Integrating the merits of two-dimensional structure and heteroatom modification into semiconductor photocatalyst to boost NO removal. <i>Chemical Engineering Journal</i> , 2019, 370, 944-951.	12.7	54
46	Oxidation Removal of CO from Flue Gas Using Two Fenton-like Wet Scrubbing Systems. <i>Energy & Fuels</i> , 2019, 33, 2961-2966.	5.1	17
47	Oxidative Absorption of Elemental Mercury from Flue Gas Using a Modified Fenton-like Wet Scrubbing System. <i>Energy & Fuels</i> , 2019, 33, 3028-3033.	5.1	23
48	Gaseous elemental mercury removal using VUV and heat coactivation of Oxone/H ₂ O/O ₂ in a VUV-spraying reactor. <i>Fuel</i> , 2019, 243, 352-361.	6.4	54
49	Removal of gaseous Hg ⁰ using novel seaweed biomass-based activated carbon. <i>Chemical Engineering Journal</i> , 2019, 366, 41-49.	12.7	103
50	Gaseous Elemental Mercury Removal Using Combined Metal Ions and Heat Activated Peroxymonosulfate/H ₂ O ₂ Solutions. <i>AIChE Journal</i> , 2019, 65, 161-174.	3.6	34
51	A review of sorbents for high-temperature hydrogen sulfide removal from hot coal gas. <i>Environmental Chemistry Letters</i> , 2019, 17, 259-276.	16.2	53
52	Separation of hydrogen sulfide from gas phase using Ce ³⁺ /Mn ²⁺ -enhanced fenton-like oxidation system. <i>Chemical Engineering Journal</i> , 2019, 359, 1486-1492.	12.7	53
53	Removal of gaseous hydrogen sulfide using Fenton reagent in a spraying reactor. <i>Fuel</i> , 2019, 239, 70-75.	6.4	79
54	Removal of elemental mercury from flue gas using red mud impregnated by KBr and KI reagent. <i>Chemical Engineering Journal</i> , 2018, 341, 483-494.	12.7	84

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55	A review on modification methods of adsorbents for elemental mercury from flue gas. Chemical Engineering Journal, 2018, 346, 692-711.	12.7	147
56	Simultaneous removal of NO and SO ₂ using vacuum ultraviolet light (VUV)/heat/peroxymonosulfate (PMS). Chemosphere, 2018, 190, 431-441.	8.2	155
57	Simultaneous absorption of SO ₂ and NO from flue gas using ultrasound/Fe ²⁺ /heat coactivated persulfate system. Journal of Hazardous Materials, 2018, 342, 326-334.	12.4	184
58	Removal of elemental mercury from flue gas using CuO _x and CeO ₂ modified rice straw chars enhanced by ultrasound. Fuel Processing Technology, 2018, 170, 21-31.	7.2	99
59	Removal of Hg ⁰ from Simulated Flue Gas by Ultraviolet Light/Heat/Persulfate Process in an UV-Impinging Stream Reactor. Energy & Fuels, 2018, 32, 12416-12425.	5.1	27
60	Elemental mercury removal from flue gas using heat and Co ²⁺ /Fe ²⁺ coactivated oxone oxidation system. Chemical Engineering Journal, 2018, 348, 464-475.	12.7	99
61	Removal of elemental Mercury from flue gas using wheat straw chars modified by K ₂ FeO ₄ reagent. Environmental Technology (United Kingdom), 2017, 38, 3047-3054.	2.2	22
62	Removal of elemental mercury from flue gas using wheat straw chars modified by Mn-Ce mixed oxides with ultrasonic-assisted impregnation. Chemical Engineering Journal, 2017, 326, 169-181.	12.7	156
63	Novel Process of Simultaneous Removal of Nitric Oxide and Sulfur Dioxide Using a Vacuum Ultraviolet (VUV)-Activated O ₂ /H ₂ O/H ₂ O ₂ System in A Wet VUV-Spraying Reactor. Environmental Science & Technology, 2016, 50, 12966-12975.	10.0	156
64	Removal of Hg ⁰ and simultaneous removal of Hg ⁰ /SO ₂ /NO in flue gas using two Fenton-like reagents in a spray reactor. Fuel, 2015, 145, 180-188.	6.4	84
65	Removal of Hg ⁰ from flue gas using two homogeneous photo-Fenton-like reactions. AIChE Journal, 2015, 61, 1322-1333.	3.6	60
66	Removal of Elemental Mercury from Flue Gas by Thermally Activated Ammonium Persulfate in A Bubble Column Reactor. Environmental Science & Technology, 2014, 48, 12181-12189.	10.0	159
67	Simultaneous removal of NO and SO ₂ from coal-fired flue gas by UV/H ₂ O ₂ advanced oxidation process. Chemical Engineering Journal, 2010, 162, 1006-1011.	12.7	237