

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
g-index

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all docs

67
docs citations

67
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous removal of NO and SO ₂ from coal-fired flue gas by UV/H ₂ O ₂ advanced oxidation process. <i>Chemical Engineering Journal</i> , 2010, 162, 1006-1011.	12.7	237
2	Adsorption of CO ₂ from flue gas by novel seaweed-based KOH-activated porous biochars. <i>Fuel</i> , 2020, 260, 116382.	6.4	185
3	Simultaneous absorption of SO ₂ and NO from flue gas using ultrasound/Fe ²⁺ /heat coactivated persulfate system. <i>Journal of Hazardous Materials</i> , 2018, 342, 326-334.	12.4	184
4	Carbon dioxide capture using liquid absorption methods: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 77-109.	16.2	165
5	Removal of Elemental Mercury from Flue Gas by Thermally Activated Ammonium Persulfate in A Bubble Column Reactor. <i>Environmental Science & Technology</i> , 2014, 48, 12181-12189.	10.0	159
6	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. <i>Environmental Science & Technology</i> , 2016, 50, 12966-12975.	10.0	156
7	Removal of elemental mercury from flue gas using wheat straw chars modified by Mn-Ce mixed oxides with ultrasonic-assisted impregnation. <i>Chemical Engineering Journal</i> , 2017, 326, 169-181.	12.7	156
8	Simultaneous removal of NO and SO ₂ using vacuum ultraviolet light (VUV)/heat/peroxymonosulfate (PMS). <i>Chemosphere</i> , 2018, 190, 431-441.	8.2	155
9	A review on modification methods of adsorbents for elemental mercury from flue gas. <i>Chemical Engineering Journal</i> , 2018, 346, 692-711.	12.7	147
10	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
11	Novel carbon-based sorbents for elemental mercury removal from gas streams: A review. <i>Chemical Engineering Journal</i> , 2020, 391, 123514.	12.7	112
12	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
13	Removal of gaseous Hg ⁰ using novel seaweed biomass-based activated carbon. <i>Chemical Engineering Journal</i> , 2019, 366, 41-49.	12.7	103
14	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
15	Removal of elemental mercury from flue gas using CuO _x and CeO ₂ modified rice straw chars enhanced by ultrasound. <i>Fuel Processing Technology</i> , 2018, 170, 21-31.	7.2	99
16	Elemental mercury removal from flue gas using heat and Co ²⁺ /Fe ²⁺ coactivated oxone oxidation system. <i>Chemical Engineering Journal</i> , 2018, 348, 464-475.	12.7	99
17	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
18	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

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19	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
20	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. <i>Fuel</i> , 2015, 145, 180-188.	6.4	84
21	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
22	Removal of gaseous hydrogen sulfide using Fenton reagent in a spraying reactor. <i>Fuel</i> , 2019, 239, 70-75.	6.4	79
23	A review on application of cerium-based oxides in gaseous pollutant purification. <i>Separation and Purification Technology</i> , 2020, 250, 117181.	7.9	79
24	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
25	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
26	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
27	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
28	Photocatalytic, electrocatalytic and photoelectrocatalytic conversion of carbon dioxide: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 941-967.	16.2	68
29	A review on arsenic removal from coal combustion: Advances, challenges and opportunities. <i>Chemical Engineering Journal</i> , 2021, 414, 128785.	12.7	68
30	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
31	Removal of Hg ⁰ from flue gas using two homogeneous photo-Fenton-like reactions. <i>AIChE Journal</i> , 2015, 61, 1322-1333.	3.6	60
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	Review on Magnetic Adsorbents for Removal of Elemental Mercury from Flue Gas. <i>Energy & Fuels</i> , 2020, 34, 13473-13490.	5.1	51
40	Sorbents for hydrogen sulfide capture from biogas at low temperature: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 113-128.	16.2	49
41	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
42	Photocatalytic oxidation removal of elemental mercury from flue gas. A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 417-431.	16.2	40
43	Removal of Elemental Mercury from Flue Gas Using Microwave/Ultrasound-Activated Ce-Fe Magnetic Porous Carbon Derived from Biomass Straw. <i>Energy & Fuels</i> , 2019, 33, 8394-8402.	5.1	39
44	Removal of gaseous hydrogen sulfide using ultraviolet/Oxone-induced oxidation scrubbing system. <i>Chemical Engineering Journal</i> , 2020, 393, 124740.	12.7	36
45	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
46	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
47	Removal of Gaseous Hydrogen Sulfide by a Photo-Fenton Wet Oxidation Scrubbing System. <i>Energy & Fuels</i> , 2019, 33, 10812-10819.	5.1	33
48	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
49	Removal of Hg ⁰ from Simulated Flue Gas by Ultraviolet Light/Heat/Persulfate Process in an UV-Impinging Stream Reactor. <i>Energy & Fuels</i> , 2018, 32, 12416-12425.	5.1	27
50	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
51	Oxidation absorption 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
52	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
53	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
54	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

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55	Experimental and kinetic study on HgO removal by microwave/hydrogen peroxide modified seaweed-based porous biochars. Environmental Technology and Innovation, 2021, 22, 101411.	6.1	23
56	Removal of elemental Mercury from flue gas using wheat straw chars modified by K_2FeO_4 reagent. Environmental Technology (United Kingdom), 2017, 38, 3047-3054.	2.2	22
57	Porous Biochars Derived from Microalgae Pyrolysis for CO_2 Adsorption. Energy & Fuels, 2021, 35, 7646-7656.	5.1	22
58	Absorption of H_2S from Gas Streams by the Wet Ultraviolet/Persulfate Oxidation Process: Mechanism and Kinetics. Energy & Fuels, 2020, 34, 8037-8045.	5.1	21
59	Oxidation Removal of CO from Flue Gas Using Two Fenton-like Wet Scrubbing Systems. Energy & Fuels, 2019, 33, 2961-2966.	5.1	17
60	Biochars derived from by-products of microalgae pyrolysis for sorption of gaseous H_2S . Journal of Environmental Chemical Engineering, 2022, 10, 107370.	6.7	17
61	Removal of CO_2 from Flue Gas Using Seaweed Porous Carbons Prepared by Urea Doping and KOH Activation. Energy & Fuels, 2020, 34, 16411-16422.	5.1	15
62	Preparation of Straw Porous Biochars by Microwave-Assisted KOH Activation for Removal of Gaseous H_2S . Energy & Fuels, 2021, 35, 18592-18603.	5.1	15
63	Removal of gaseous H_2S using microalgae porous carbons synthesized by thermal/microwave KOH activation. Journal of the Energy Institute, 2022, 101, 45-55.	5.3	15
64	Gaseous Hydrogen Sulfide Removal Using Macroalgae Biochars Modified Synergistically by H_2SO_4/H_2O_2 . Chemical Engineering and Technology, 2021, 44, 698-709.	1.5	12
65	Removal of Elemental Mercury Using Seaweed Biomass-Based Porous Carbons Prepared from Microwave Activation and H_2O_2 Modification. Energy & Fuels, 2021, 35, 2391-2401.	5.1	10
66	Hg^{0} Removal by Straw Biochars Prepared with Clean Microwave/ H_2O_2 Modification. Chemical Engineering and Technology, 2021, 44, 1460-1469.	1.5	8
67	Oxidative removal of gaseous hydrogen sulfide by a dual ions-dual oxidants coupling activation system. Chemical Engineering Research and Design, 2022, 161, 454-465.	5.6	3