# Wen Xu

List of Publications by Year
in descending order



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|---|---|---|---|
| 67 papers | 4,571 citations | 71061 41 h-index | 98753 67 g-index |
| 67 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). Journal of Hazardous Materials, 2022, 427, 128132. | 6.5 | 58 |
| 2 | Removal of gaseous H2S using microalgae porous carbons synthesized by thermal/microwave KOH activation. Journal of the Energy Institute, 2022, 101, 45-55. | 2.7 | 15 |
| 3 | A thermally activated double oxidants advanced oxidation system for gaseous H2S removal: Mechanism and kinetics. Chemical Engineering Journal, 2022, 434, 134430. | 6.6 | 26 |
| 4 | Fe2+/heat-coactivated PMS oxidation-absorption system for H2S removal from gas phase. Separation and Purification Technology, 2022, 286, 120458. | 3.9 | 30 |
| 5 | Oxidative removal of gaseous hydrogen sulfide by a dual ions-dual oxidants coupling activation system. Chemical Engineering Research and Design, 2022, 161, 454-465. | 2.7 | 3 |
| 6 | Biochars derived from by-products of microalgae pyrolysis for sorption of gaseous H2S. Journal of Environmental Chemical Engineering, 2022, 10, 107370. | 3.3 | 17 |
| 7 | Photocatalytic, electrocatalytic and photoelectrocatalytic conversion of carbon dioxide: a review. Environmental Chemistry Letters, 2021, 19, 941-967. | 8.3 | 68 |
| 8 | Elemental mercury captureÂfrom industrial gas emissions using sulfides and selenides: a review. Environmental Chemistry Letters, 2021, 19, 1395-1411. | 8.3 | 26 |
| 9 | Carbon dioxide capture using liquid absorption methods: a review. Environmental Chemistry Letters, 2021, 19, 77-109. | 8.3 | 165 |
| 10 | Gaseous Hydrogen Sulfide Removal Using Macroalgae Biochars Modified Synergistically by H<sub>2</sub>SO<sub>4</sub>/H<sub>2</sub>O<sub>2</sub>. Chemical Engineering and Technology, 2021, 44, 698-709. | 0.9 | 12 |
| 11 | Porous Biochars Derived from Microalgae Pyrolysis for CO<sub>2</sub> Adsorption. Energy & Fuels, 2021, 35, 7646-7656. | 2.5 | 22 |
| 12 | Adsorption of elemental mercury in flue gas using biomass porous carbons modified by microwave/hydrogen peroxide. Fuel, 2021, 291, 120152. | 3.4 | 77 |
| 13 | Experimental and kinetic study on Hg0 removal by microwave/hydrogen peroxide modified seaweed-based porous biochars. Environmental Technology and Innovation, 2021, 22, 101411. | 3.0 | 23 |
| 14 | Hg<sup>0</sup> Removal by Straw Biochars Prepared with Clean Microwave/H<sub>2</sub>O<sub>2</sub> Modification. Chemical Engineering and Technology, 2021, 44, 1460-1469. | 0.9 | 8 |
| 15 | A review on arsenic removal from coal combustion: Advances, challenges and opportunities. Chemical Engineering Journal, 2021, 414, 128785. | 6.6 | 68 |
| 16 | A Critical Review on Removal of Gaseous Pollutants Using Sulfate Radical-based Advanced Oxidation Technologies. Environmental Science & Technology, 2021, 55, 9691-9710. | 4.6 | 89 |
| 17 | Review on Removal of SO<sub>2</sub>, NO<sub>x</sub>, Mercury, and Arsenic from Flue Gas Using Green Oxidation Absorption Technology. Energy & Fuels, 2021, 35, 9775-9794. | 2.5 | 34 |
| 18 | Removal of pollutants from gas streams using Fenton (-like)-based oxidation systems: A review. Journal of Hazardous Materials, 2021, 416, 125927. | 6.5 | 45 |

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|---|---|---|---|
| 19 | Removal of Elemental Mercury Using Seaweed Biomass-Based Porous Carbons Prepared from Microwave Activation and H<sub>2</sub>O<sub>2</sub> Modification. Energy & Fuels, 2021, 35, 2391-2401. | 2.5 | 10 |
| 20 | Preparation of Straw Porous Biochars by Microwave-Assisted KOH Activation for Removal of Gaseous H<sub>2</sub>S. Energy & Fuels, 2021, 35, 18592-18603. | 2.5 | 15 |
| 21 | Adsorption of CO2 from flue gas by novel seaweed-based KOH-activated porous biochars. Fuel, 2020, 260, 116382. | 3.4 | 185 |
| 22 | Sorbents for hydrogen sulfide capture from biogas at low temperature: a review. Environmental Chemistry Letters, 2020, 18, 113-128. | 8.3 | 49 |
| 23 | Preparation of magnetic Co-Fe modified porous carbon from agricultural wastes by microwave and steam activation for mercury removal. Journal of Hazardous Materials, 2020, 381, 120981. | 6.5 | 125 |
| 24 | Novel Simultaneous Removal Technology of NO and SO<sub>2</sub> Using a Semi-Dry Microwave Activation Persulfate System. Environmental Science & Technology, 2020, 54, 2031-2042. | 4.6 | 70 |
| 25 | Photocatalytic oxidation removal of elemental mercury from flue gas.ÂA review. Environmental Chemistry Letters, 2020, 18, 417-431. | 8.3 | 40 |
| 26 | Novel carbon-based sorbents for elemental mercury removal from gas streams: A review. Chemical Engineering Journal, 2020, 391, 123514. | 6.6 | 112 |
| 27 | Study on removal of gaseous hydrogen sulfide based on macroalgae biochars. Journal of Natural Gas Science and Engineering, 2020, 73, 103068. | 2.1 | 52 |
| 28 | Review on Magnetic Adsorbents for Removal of Elemental Mercury from Flue Gas. Energy & Fuels, 2020, 34, 13473-13490. | 2.5 | 51 |
| 29 | Absorption of H<sub>2</sub>S from Gas Streams by the Wet Ultraviolet/Persulfate Oxidation Process: Mechanism and Kinetics. Energy & Fuels, 2020, 34, 8037-8045. | 2.5 | 21 |
| 30 | Removal of CO<sub>2</sub> from Flue Gas Using Seaweed Porous Carbons Prepared by Urea Doping and KOH Activation. Energy & Fuels, 2020, 34, 16411-16422. | 2.5 | 15 |
| 31 | Oxidation absorption of hydrogen sulfide from gas stream using vacuum ultraviolet/H2O2/urea wet scrubbing system. Chemical Engineering Research and Design, 2020, 140, 348-355. | 2.7 | 27 |
| 32 | Removal of gaseous hydrogen sulfide using ultraviolet/Oxone-induced oxidation scrubbing system. Chemical Engineering Journal, 2020, 393, 124740. | 6.6 | 36 |
| 33 | A review on application of cerium-based oxides in gaseous pollutant purification. Separation and Purification Technology, 2020, 250, 117181. | 3.9 | 79 |
| 34 | Removal of nitric oxide from flue gas using novel microwave-activated double oxidants system. Chemical Engineering Journal, 2020, 393, 124754. | 6.6 | 58 |
| 35 | State-of-the-art review on capture of CO2 using adsorbents prepared from waste materials. Chemical Engineering Research and Design, 2020, 139, 1-25. | 2.7 | 90 |
| 36 | A review on coal fly ash-based adsorbents for mercury and arsenic removal. Journal of Cleaner Production, 2020, 267, 122143. | 4.6 | 106 |

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|---|---|---|---|
| 37 | Removal of Carbon Monoxide from Simulated Flue Gas Using Two New Fenton Systems: Mechanism and Kinetics. Environmental Science & Technology, 2019, 53, 10387-10397. | 4.6 | 27 |
| 38 | Removal of Elemental Mercury from Flue Gas Using Microwave/Ultrasound-Activated Ceâ€“Fe Magnetic Porous Carbon Derived from Biomass Straw. Energy & Fuels, 2019, 33, 8394-8402. | 2.5 | 39 |
| 39 | Removal of Gaseous Hydrogen Sulfide by a Photo-Fenton Wet Oxidation Scrubbing System. Energy & Fuels, 2019, 33, 10812-10819. | 2.5 | 33 |
| 40 | Preparation of microwave-activated magnetic bio-char adsorbent and study on removal of elemental mercury from flue gas. Science of the Total Environment, 2019, 697, 134049. | 3.9 | 101 |
| 41 | Mercury removal from flue gas by magnetic iron-copper oxide modified porous char derived from biomass materials. Fuel, 2019, 256, 115977. | 3.4 | 96 |
| 42 | Removal of gaseous elemental mercury using seaweed chars impregnated by NH4Cl and NH4Br. Journal of Cleaner Production, 2019, 216, 277-287. | 4.6 | 69 |
| 43 | Elimination of nitric oxide using new Fenton process based on synergistic catalysis: Optimization and mechanism. Chemical Engineering Journal, 2019, 372, 92-98. | 6.6 | 64 |
| 44 | Oxidation removal of gaseous Hg0 using enhanced-Fenton system in a bubble column reactor. Fuel, 2019, 246, 358-364. | 3.4 | 76 |
| 45 | Integrating the merits of two-dimensional structure and heteroatom modification into semiconductor photocatalyst to boost NO removal. Chemical Engineering Journal, 2019, 370, 944-951. | 6.6 | 54 |
| 46 | Oxidation Removal of CO from Flue Gas Using Two Fenton-like Wet Scrubbing Systems. Energy & Fuels, 2019, 33, 2961-2966. | 2.5 | 17 |
| 47 | Oxidative Absorption of Elemental Mercury from Flue Gas Using a Modified Fenton-like Wet Scrubbing System. Energy & Fuels, 2019, 33, 3028-3033. | 2.5 | 23 |
| 48 | Gaseous elemental mercury removal using VUV and heat coactivation of Oxone/H2O/O2 in a VUV-spraying reactor. Fuel, 2019, 243, 352-361. | 3.4 | 54 |
| 49 | Removal of gaseous Hg0 using novel seaweed biomass-based activated carbon. Chemical Engineering Journal, 2019, 366, 41-49. | 6.6 | 103 |
| 50 | Gaseous Elemental Mercury Removal Using Combined Metal Ions and Heat Activated Peroxymonosulfate/H<sub>2</sub>O<sub>2</sub> Solutions. AICHE Journal, 2019, 65, 161-174. | 1.8 | 34 |
| 51 | A review of sorbents for high-temperature hydrogen sulfide removal from hot coal gas. Environmental Chemistry Letters, 2019, 17, 259-276. | 8.3 | 53 |
| 52 | Separation of hydrogen sulfide from gas phase using Ce3+/Mn2+-enhanced fenton-like oxidation system. Chemical Engineering Journal, 2019, 359, 1486-1492. | 6.6 | 53 |
| 53 | Removal of gaseous hydrogen sulfide using Fenton reagent in a spraying reactor. Fuel, 2019, 239, 70-75. | 3.4 | 79 |
| 54 | Removal of elemental mercury from flue gas using red mud impregnated by KBr and KI reagent. Chemical Engineering Journal, 2018, 341, 483-494. | 6.6 | 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. | 6.6 | 147 |
| 56 | Simultaneous removal of NO and SO2 using vacuum ultraviolet light (VUV)/heat/peroxymonosulfate (PMS). Chemosphere, 2018, 190, 431-441. | 4.2 | 155 |
| 57 | Simultaneous absorption of SO2 and NO from flue gas using ultrasound/Fe2+/heat coactivated persulfate system. Journal of Hazardous Materials, 2018, 342, 326-334. | 6.5 | 184 |
| 58 | Removal of elemental mercury from flue gas using CuOx and CeO2 modified rice straw chars enhanced by ultrasound. Fuel Processing Technology, 2018, 170, 21-31. | 3.7 | 99 |
| 59 | Removal of Hg<sup>0</sup> from Simulated Flue Gas by Ultraviolet Light/Heat/Persulfate Process in an UV-Impinging Stream Reactor. Energy & Fuels, 2018, 32, 12416-12425. | 2.5 | 27 |
| 60 | Elemental mercury removal from flue gas using heat and Co2+/Fe2+ coactivated oxone oxidation system. Chemical Engineering Journal, 2018, 348, 464-475. | 6.6 | 99 |
| 61 | Removal of elemental Mercury from flue gas using wheat straw chars modified by K<sub>2</sub>FeO<sub>4</sub> reagent. Environmental Technology (United Kingdom), 2017, 38, 3047-3054. | 1.2 | 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. | 6.6 | 156 |
| 63 | Novel Process of Simultaneous Removal of Nitric Oxide and Sulfur Dioxide Using a Vacuum Ultraviolet (VUV)-Activated O<sub>2</sub>/H<sub>2</sub>O/H<sub>2</sub>O<sub>2</sub> System in A Wet VUVâ€“Spraying Reactor. Environmental Science & Technology, 2016, 50, 12966-12975. | 4.6 | 156 |
| 64 | Removal of Hg0 and simultaneous removal of Hg0/SO2/NO in flue gas using two Fenton-like reagents in a spray reactor. Fuel, 2015, 145, 180-188. | 3.4 | 84 |
| 65 | Removal of Hg<sup>0</sup> from flue gas using two homogeneous photoâ€fentonâ€like reactions. AICHE Journal, 2015, 61, 1322-1333. | 1.8 | 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. | 4.6 | 159 |
| 67 | Simultaneous removal of NO and SO2 from coal-fired flue gas by UV/H2O2 advanced oxidation process. Chemical Engineering Journal, 2010, 162, 1006-1011. | 6.6 | 237 |