

A review on mercury in coal combustion process: Content transformation, sampling methods, emission and control

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Investigation of Elemental Mercury Removal from Coal-Fired Boiler Flue Gas over MIL101-Cr. <i>Energy &amp; Fuels</i> , 2019, 33, 8864-8875.	2.5	15
2	Emission and Migration Characteristics of Mercury in a 0.3 MWth CFB Boiler with Ammonium Bromide-Modified Rice Husk Char Injection into Flue. <i>Energy &amp; Fuels</i> , 2019, 33, 7578-7586.	2.5	4
3	Insights into Efficient Removal of Gaseous Hg <sup>0</sup> using AgI/O <sub>3</sub> -Modified BiOI/CoFe <sub>2</sub> O <sub>4</sub> Composites through Photocatalytic Oxidation. <i>Energy &amp; Fuels</i> , 2019, 33, 12538-12548.	2.5	19
4	Developing an ANFIS-PSO Model to Predict Mercury Emissions in Combustion Flue Gases. <i>Mathematics</i> , 2019, 7, 965.	1.1	45
5	Transformation and Migration of Mercury during Chemical-Looping Gasification of Coal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 20481-20490.	1.8	32
6	Using H <sub>2</sub> S plasma to modify activated carbon for elemental mercury removal. <i>Fuel</i> , 2019, 254, 115549.	3.4	44
7	Study of Mercury-Removal Performance of Mechanical-Modified Chemical-Brominated Coal-Fired Fly Ash. <i>Energy &amp; Fuels</i> , 2019, 33, 6670-6677.	2.5	27
8	Mercury in natural gas streams: A review of materials and processes for abatement and remediation. <i>Journal of Hazardous Materials</i> , 2020, 382, 121036.	6.5	49
9	In Situ Decoration of Selenide on Copper Foam for the Efficient Immobilization of Gaseous Elemental Mercury. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2022-2030.	4.6	96
10	A novel, anthracene-based naked eye probe for detecting Hg <sup>2+</sup> ions in aqueous as well as solid state media. <i>Microchemical Journal</i> , 2020, 153, 104508.	2.3	17
11	Seawater-assisted synthesis of MnCe/zeolite-13X for removing elemental mercury from coal-fired flue gas. <i>Fuel</i> , 2020, 262, 116605.	3.4	37
12	Is energy the key to pursuing clean air and water at the city level? A case study of Jinan City, China. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110353.	8.2	14
13	Study on Preparation and Mercury Adsorption Characteristics of Columnar Sulfur-Impregnated Activated Petroleum Coke. <i>Energy &amp; Fuels</i> , 2020, 34, 10740-10751.	2.5	17
14	Study on Mercury Species in Coal and Pyrolysis-Based Mercury Removal before Utilization. <i>ACS Omega</i> , 2020, 5, 20215-20223.	1.6	7
15	Review on Magnetic Adsorbents for Removal of Elemental Mercury from Flue Gas. <i>Energy &amp; Fuels</i> , 2020, 34, 13473-13490.	2.5	51
16	Removal of Mercury from Simulated Natural Gas by SO <sub>2</sub> Activated Petroleum Coke. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 774, 012126.	0.3	2
17	Effect of atmosphere of SO <sub>2</sub> coexisted with oxidizing gas on mercury removal under oxy-fuel condition. <i>Chemosphere</i> , 2020, 259, 127525.	4.2	13
18	A comprehensive exploration of mercury adsorption sites on the carbonaceous surface: A DFT study. <i>Fuel</i> , 2020, 282, 118781.	3.4	34

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19	NH <sub>4</sub> Br-Modified Biomass Char for Mercury Removal in a Simulated Oxy-fuel Atmosphere: Mechanism Analysis by X-ray Photoelectron Spectroscopy. <i>Energy &amp; Fuels</i> , 2020, 34, 9872-9884.	2.5	11
20	Electrochemical removal of gaseous elemental mercury in liquid phase with a novel foam titanium-based DSA anode. <i>Separation and Purification Technology</i> , 2020, 250, 117162.	3.9	21
21	Continuous Generation of HgCl <sub>2</sub> by DBD Nonthermal Plasma. Part I: Influences of the DBD Reactor Structure and Operational Parameters. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 13396-13405.	1.8	9
22	Continuous Generation of HgCl <sub>2</sub> by Dielectric Barrier Discharge Nonthermal Plasma. Part II: Influences of the Cl Source. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 13406-13413.	1.8	2
23	Review on the Current Status of the Co-combustion Technology of Organic Solid Waste (OSW) and Coal in China. <i>Energy &amp; Fuels</i> , 2020, 34, 15448-15487.	2.5	45
24	Flue Gas Hg <sup>0</sup> Removal by FeCl <sub>3</sub> -Impregnated LTA and MFI Zeolites: Influences of Topology and Cation Sites. <i>Energy &amp; Fuels</i> , 2020, 34, 9903-9913.	2.5	11
25	Nanosized Zn <sup>2+</sup> In Spinel-Type Sorbents for Elemental Mercury Removal from Flue Gas. <i>Energy &amp; Fuels</i> , 2020, 34, 12853-12859.	2.5	16
26	Advances in magnetically recyclable remediators for elemental mercury degradation in coal combustion flue gas. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18624-18650.	5.2	10
27	Mercury Removal Based on Adsorption and Oxidation by Fly Ash: A Review. <i>Energy &amp; Fuels</i> , 2020, 34, 11840-11866.	2.5	36
28	Effect of Mechanical-Chemical Modification Process on Mercury Removal of Bromine Modified Fly Ash. <i>Energy &amp; Fuels</i> , 2020, 34, 9829-9839.	2.5	22
29	Determination of mercury thermospecies in South African coals in the enhancement of mercury removal by pre-combustion technologies. <i>Scientific Reports</i> , 2020, 10, 19282.	1.6	6
30	Experimental Investigation of the Hydrate-Based Gas Separation of Synthetic Flue Gas with 5A Zeolite. <i>Energies</i> , 2020, 13, 4556.	1.6	5
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32	An overview of mercury emissions in the energy industry - A step to mercury footprint assessment. <i>Journal of Cleaner Production</i> , 2020, 267, 122087.	4.6	43
33	Upcycling coal liquefaction residue into sulfur-rich activated carbon for efficient Hg <sup>0</sup> removal from coal-fired flue gas. <i>Fuel Processing Technology</i> , 2020, 206, 106467.	3.7	26
34	Mercury-bearing wastes: Sources, policies and treatment technologies for mercury recovery and safe disposal. <i>Journal of Environmental Management</i> , 2020, 270, 110945.	3.8	33
35	Ultra-low loading of Ag <sub>2</sub> CrO <sub>4</sub> on BiOI/CoFe <sub>2</sub> O <sub>4</sub> microsphere with p-n heterojunction: Highly improved photocatalytic performance for Hg <sup>0</sup> removal and mechanism insight. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 396, 112543.	2.0	15
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38	High mercury emission (both forms: HgO and Hg <sup>2+</sup> ) from the wet scrubber in a full-scale lignite-fired power plant. <i>Fuel</i> , 2020, 270, 117491.	3.4	19
40	Valorization Method for Hard Coal as Fuel for Nonindustrial Combustion Installations with Special Regard to Reduction of Mercury Content. <i>Energy &amp; Fuels</i> , 2020, 34, 2980-2988.	2.5	7
41	Mercury Migration Behavior from Flue Gas to Fly Ashes in a Commercial Coal-Fired CFB Power Plant. <i>Energies</i> , 2020, 13, 1040.	1.6	8
42	Geochemical partitioning from pulverized coal to fly ash and bottom ash. <i>Fuel</i> , 2020, 279, 118542.	3.4	37
43	Mercury Sorbents Made By Inverse Vulcanization of Sustainable Triglycerides: The Plant Oil Structure Influences the Rate of Mercury Removal from Water. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900111.	2.7	75
44	The effect of mechanical-chemical-brominated modification on physicochemical properties and mercury removal performance of coal-fired by-product. <i>Fuel</i> , 2020, 266, 117041.	3.4	31
45	Removal of elemental mercury from flue gas by recyclable CuCl <sub>2</sub> modified magnetospheres from fly ash: Part 5. Industrial scale studies at a 50AMWth coal-fired power plant. <i>Fuel</i> , 2020, 266, 117052.	3.4	30
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47	Reaction mechanisms and chemical kinetics of mercury transformation during coal combustion. <i>Progress in Energy and Combustion Science</i> , 2020, 79, 100844.	15.8	145
48	Determination of mercury binding forms in humic substances of lignite. <i>Fuel</i> , 2020, 274, 117800.	3.4	12
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51	Charge-distribution modulation of copper ferrite spinel-type catalysts for highly efficient Hg <sub>0</sub> oxidation. <i>Journal of Hazardous Materials</i> , 2021, 402, 123576.	6.5	49
52	Mechanistic investigation of elemental mercury adsorption over silver-modified vanadium silicate: A DFT study. <i>Journal of Hazardous Materials</i> , 2021, 404, 124108.	6.5	17
53	Mercury emission from three lignite-fired power plants in the Czech Republic. <i>Fuel Processing Technology</i> , 2021, 212, 106628.	3.7	12
54	An overview of inorganic particulate matter emission from coal/biomass/MSW combustion: Sampling and measurement, formation, distribution, inorganic composition and influencing factors. <i>Fuel Processing Technology</i> , 2021, 213, 106657.	3.7	113
55	Elemental mercury capture from industrial gas emissions using sulfides and selenides: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1395-1411.	8.3	26

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57	The effect of different morphology of fluoride-mediated TiO <sub>2</sub> based on Ostwald ripening on photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125702.	2.3	13
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59	Migration and emission behavior of arsenic and selenium in a circulating fluidized bed power plant burning arsenic/selenium-enriched coal. <i>Chemosphere</i> , 2021, 263, 127920.	4.2	35
60	β-Fe <sub>2</sub> O <sub>3</sub> decorated attapulgite composite modified with CuCl <sub>2</sub> as magnetically separable sorbents for Hg <sub>0</sub> removal from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2021, 408, 127888.	6.6	41
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63	Elemental mercury removal from coal-fired flue gas using recyclable magnetic Mn-Fe based attapulgite sorbent. <i>Chemical Engineering Journal</i> , 2021, 407, 127182.	6.6	105
64	Cost-effective sulfurized sorbents derived from one-step pyrolysis of wood and scrap tire for elemental mercury removal from flue gas. <i>Fuel</i> , 2021, 285, 119221.	3.4	40
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66	Mercury removal performance of brominated biomass activated carbon injection in simulated and coal-fired flue gas. <i>Fuel</i> , 2021, 285, 119131.	3.4	47
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72	Spatial distribution of harmful trace elements in Chinese coalfields: An application of WebGIS technology. <i>Science of the Total Environment</i> , 2021, 755, 142527.	3.9	20
73	Mercury Removal from Flue Gas by Noncarbon Sorbents. <i>Energy &amp; Fuels</i> , 2021, 35, 3581-3610.	2.5	60
74	Multipollutant Control (MPC) of Flue Gas from Stationary Sources Using SCR Technology: A Critical Review. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2743-2766.	4.6	117

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76	Adsorption of Gaseous Mercury for Engineering Optimization: From Macrodynamics to Adsorption Kinetics and Thermodynamics. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 865-873.	3.7	17
77	Recyclable chalcopyrite sorbent for mercury removal from coal combustion flue gas. <i>Fuel</i> , 2021, 290, 120049.	3.4	36
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85	Behavior of mercury in chemical looping with oxygen uncoupling of coal. <i>Fuel Processing Technology</i> , 2021, 216, 106747.	3.7	13
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90	Heterogeneous Reaction Mechanisms and Functional Materials for Elemental Mercury Removal from Industrial Flue Gas. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 1383-1400.	3.7	27
91	Effects of metal ions on Hg <sub>0</sub> re-emission under air and oxy-fuel combustion atmospheres in a WFGD system. <i>Fuel</i> , 2021, 299, 120881.	3.4	3
92	Effect of Sonochemical Treatment on Thermal Stability, Elemental Mercury (Hg <sub>0</sub> ) Removal, and Regenerable Performance of Magnetic Tea Biochar. <i>ACS Omega</i> , 2021, 6, 23913-23923.	1.6	15

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94	Bismuth-based photocatalyst for photocatalytic oxidation of flue gas mercury removal: A review. <i>Journal of Hazardous Materials</i> , 2021, 418, 126280.	6.5	82
95	Molecular structural characteristics of late Jurassic Shengli lignite submacerals. <i>Journal of Solid State Chemistry</i> , 2021, 303, 122462.	1.4	4
96	Elemental mercury capture from flue gas by magnetic recyclable Fe <sub>6</sub> Mn <sub>1-x</sub> Ce <sub>x</sub> O <sub>y</sub> sorbent. Part 1. Performance evaluation and regeneration. <i>Fuel</i> , 2021, 304, 120723.	3.4	17
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98	Single-atom Co-N-C catalyst for efficient Hg <sup>0</sup> oxidation at low temperature. <i>Chemical Engineering Journal</i> , 2022, 428, 132660.	6.6	18
99	Mechanistic studies of carbocycles on elemental mercury adsorption on carbonaceous surface. <i>Fuel</i> , 2022, 309, 122101.	3.4	8
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101	Towards sustainable coal industry: Turning coal bottom ash into wealth. <i>Science of the Total Environment</i> , 2022, 804, 149985.	3.9	75
102	Research progress on petroleum coke for mercury removal from coal-fired flue gas. <i>Fuel</i> , 2022, 309, 122084.	3.4	22
103	Influence of Mo doping on mercury capture and SO <sub>2</sub> tolerance of Mo <sub>x</sub> Fe <sub>6</sub> Mn <sub>1-x</sub> O <sub>y</sub> magnetic sorbent. <i>Fuel</i> , 2022, 308, 121980.	3.4	14
104	Mercury removal from coal-fired flue gas of high-sulfur petroleum coke activated by pyrolysis and mechanochemical method. <i>Chemical Engineering Journal</i> , 2022, 429, 132154.	6.6	25
105	Determination of Hg(II) based on the inhibited catalytic growth of surface-enhanced Raman scattering-active gold nanoparticles on a patterned hydrophobic paper substrate. <i>Microchemical Journal</i> , 2020, 157, 104983.	2.3	7
106	Effects of Ultralow-Emission Retrofitting on Mercury Emission from a Coal-Fired Power Plant. <i>Energy &amp; Fuels</i> , 2020, 34, 7502-7508.	2.5	15
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109	Removal of elemental mercury from flue gas using the magnetic attapulgite by Mn-Cu oxides modification. <i>Environmental Science and Pollution Research</i> , 2022, 29, 14058-14069.	2.7	10
110	Effect of a Mechanochemical Process on the Stability of Mercury in Simulated Fly Ash. Part 1. Ball Milling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 14737-14746.	1.8	6

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111	Effect of the Mechanochemical Process on the Stability of Mercury in Simulated Fly Ash, Part 2: Sulfur Additive. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 15115-15124.	1.8	3
112	Rational fabrication flowerlike BiOBr with oxygen vacancy for enhancing photocatalytic performance to remove gaseous mercury. <i>Chemical Physics Letters</i> , 2021, 785, 139164.	1.2	6
114	Parameter Estimation for Industrial Robot Manipulators Using an Improved Particle Swarm Optimization Algorithm with Gaussian Mutation and Archived Elite Learning. <i>Advances in Science, Technology and Engineering Systems</i> , 2020, 5, 1436-1457.	0.4	0
115	Particulate matter emission during municipal solid waste combustion: Submicron particulates formation mechanism. <i>Fuel</i> , 2022, 310, 122271.	3.4	13
116	Experimental study on mercury removal from coal-fired flue gas by sulfur modified biomass coke with mechanochemical method. <i>Fuel</i> , 2022, 309, 122201.	3.4	24
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118	Numerical simulation of sorbent injection for mercury removal within an electrostatic precipitator: In-flight plus wall-bounded mechanism. <i>Fuel</i> , 2022, 309, 122142.	3.4	8
119	Mercury/oxygen reaction mechanism over CuFe <sub>2</sub> O <sub>4</sub> catalyst. <i>Journal of Hazardous Materials</i> , 2022, 424, 127556.	6.5	20
120	Influence of Pyrolysis Conditions on the Mercury Removal Characteristics and Physicochemical Properties of Biomass Coke. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
121	Interference Effect of H <sub>2</sub> O on Hg <sup>0</sup> Removal by a Mercury Sorbent in an Oxyfuel-Combustion Atmosphere. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 17450-17457.	1.8	10
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124	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.	6.5	58
125	Facile synthesis of phosphorus-doped porous biochars for efficient removal of elemental mercury from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2022, 432, 134440.	6.6	21
126	Sustainable and efficient technologies for removal and recovery of toxic and valuable metals from wastewater: Recent progress, challenges, and future perspectives. <i>Chemosphere</i> , 2022, 292, 133102.	4.2	62
127	Influence of pyrolysis conditions on the mercury removal characteristics and physicochemical properties of biomass coke. <i>Fuel</i> , 2022, 313, 122979.	3.4	17
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129	Surface Characteristics of Innovative TiO <sub>2</sub> {001} and CeO <sub>2</sub> /TiO <sub>2</sub> {001} Catalysts and Simultaneous Removal of Elemental Mercury and Nitric Oxide at High Temperatures. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0



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131	Mercury release behaviors of Guizhou bituminous coal during co-pyrolysis: Influence of chlorella. <i>Journal of Environmental Sciences</i> , 2022, 119, 23-32.	3.2	4
132	Fly Ash as an Ingredient in the Contaminated Soil Stabilization Process. <i>Energies</i> , 2022, 15, 565.	1.6	4
133	Electrochemical enhancement of high-efficiency wet removal of mercury from flue gas. <i>Environmental Science and Pollution Research</i> , 2022, , 1.	2.7	0
134	Elemental mercury (Hg <sup>0</sup> ) emission, hazards, and control: A brief review. <i>Journal of Hazardous Materials Advances</i> , 2022, 5, 100049.	1.2	14
135	Dual 2-dimensional CuSe/g-C <sub>3</sub> N <sub>4</sub> nano-heterostructure for boosting immobilization of elemental mercury in flue gas. <i>Chemical Engineering Journal</i> , 2022, 435, 134696.	6.6	20
136	Promoting effect of Co-doped CeO <sub>2</sub> nanorods activity and SO <sub>2</sub> resistance for Hg <sup>0</sup> removal. <i>Fuel</i> , 2022, 317, 123320.	3.4	26
137	Volatilization characteristics and relationship of arsenic and sulfur during coal pyrolysis. <i>Fuel</i> , 2022, 315, 123223.	3.4	8
138	Template Synthesis of Sulfur-Doped Mesoporous Carbon for Efficiently Removing Gas-Phase Elemental Mercury from Flue Gas. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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