

Jianping Yang

List of Publications by Year in descending order

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72
papers

3,591
citations

94433

37
h-index

133252

59
g-index

72
all docs

72
docs citations

72
times ranked

1318
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of flue gas mercury by porous carbons derived from one-pot carbonization and activation of wood sawdust in a molten salt medium. <i>Journal of Hazardous Materials</i> , 2022, 424, 127336.	12.4	44
2	Removal of elemental mercury from flue gas by recyclable CuCl ₂ modified magnetospheres catalyst from fly ash: Part 6. Commercial scale demonstration at a 1000MWth coal-fired power plant. <i>Fuel</i> , 2022, 310, 122219.	6.4	21
3	Facile pathway towards crystallinity adjustment and performance enhancement of copper selenide for vapor-phase elemental mercury sequestration. <i>Chemical Engineering Journal</i> , 2022, 430, 132811.	12.7	5
4	Numerical simulation of sorbent injection for mercury removal within an electrostatic precipitator: In-flight plus wall-bounded mechanism. <i>Fuel</i> , 2022, 309, 122142.	6.4	8
5	Favorably adjusting the pore characteristics of copper sulfide by template regulation for vapor-phase elemental mercury immobilization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10729-10737.	10.3	17
6	A Molten-Salt Pyrolysis Synthesis Strategy toward Sulfur-Functionalized Carbon for Elemental Mercury Removal from Coal-Combustion Flue Gas. <i>Energies</i> , 2022, 15, 1840.	3.1	6
7	Charge distribution modulation and morphology controlling of copper selenide for an enhanced elemental mercury adsorption activity in flue gas. <i>Chemical Engineering Journal</i> , 2022, 442, 136145.	12.7	47
8	Coordinatively Unsaturated Selenides over CuFeSe ₂ toward Highly Efficient Mercury Immobilization. <i>Environmental Science & Technology</i> , 2022, 56, 575-584.	10.0	36
9	Mechanisms of Gas-Phase Mercury Immobilized by Metal Sulfides from Combustion Flue Gas: A Mini Review. <i>Energy & Fuels</i> , 2022, 36, 6027-6037.	5.1	8
10	Elemental mercury removal from simulated coal-fired flue gas by modified tonstein in coal seam. <i>Fuel</i> , 2021, 284, 119016.	6.4	9
11	Reduction of oxidized mercury over NO _x selective catalytic reduction catalysts: A review. <i>Chemical Engineering Journal</i> , 2021, 421, 127745.	12.7	10
12	Light irradiation inhibits mercury adsorption by mineral sulfide sorbent. <i>Fuel</i> , 2021, 288, 119663.	6.4	8
13	The adsorption mechanisms of HgO on marcasite-type metal selenides: The influences of metal-terminated site. <i>Chemical Engineering Journal</i> , 2021, 406, 126723.	12.7	27
14	Elemental mercury removal from flue gas using modified tonstein: Performance of adsorbent injection at an entrained flow reactor system and 50-MW coal-fired power plant in China. <i>Journal of Cleaner Production</i> , 2021, 287, 124998.	9.3	10
15	Mercury Removal from Flue Gas by Noncarbon Sorbents. <i>Energy & Fuels</i> , 2021, 35, 3581-3610.	5.1	60
16	Recyclable chalcopyrite sorbent for mercury removal from coal combustion flue gas. <i>Fuel</i> , 2021, 290, 120049.	6.4	36
17	The influences of selenium species on mercury removal over pyrite surface: A density functional theory study. <i>Fuel</i> , 2021, 292, 120284.	6.4	17
18	Advances in flue gas mercury abatement by mineral chalcogenides. <i>Chemical Engineering Journal</i> , 2021, 411, 128608.	12.7	51

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19	Mercury removal performance over a Ce-doped V-W/TiO ₂ catalyst in an internally illuminated honeycomb photoreactor. <i>Science China Technological Sciences</i> , 2021, 64, 2441.	4.0	3
20	Facile preparation of nanosized copper sulfide functionalized macroporous skeleton for efficient vapor-phase mercury sequestration. <i>Chemical Engineering Journal</i> , 2021, 419, 129561.	12.7	33
21	Binary mineral sulfides sorbent with wide temperature range for rapid elemental mercury uptake from coal combustion flue gas. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 160-169.	2.2	10
22	Role of SO ₂ and H ₂ O in the mercury adsorption on ceria surface: A DFT study. <i>Fuel</i> , 2020, 260, 116289.	6.4	45
23	In Situ Decoration of Selenide on Copper Foam for the Efficient Immobilization of Gaseous Elemental Mercury. <i>Environmental Science & Technology</i> , 2020, 54, 2022-2030.	10.0	96
24	Toward an Understanding of Fundamentals Governing the Elemental Mercury Sequestration by Metal Chalcogenides. <i>Environmental Science & Technology</i> , 2020, 54, 9672-9680.	10.0	27
25	Density Functional Theory Study of Elemental Mercury Immobilization on CuSe(001) Surface: Reaction Pathway and Effect of Typical Flue Gas Components. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13603-13612.	3.7	20
26	Surface-Engineered Sponge Decorated with Copper Selenide for Highly Efficient Gas-Phase Mercury Immobilization. <i>Environmental Science & Technology</i> , 2020, 54, 16195-16203.	10.0	63
27	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.	10.3	10
28	Selenide functionalized natural mineral sulfides as efficient sorbents for elemental mercury capture from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2020, 398, 125611.	12.7	53
29	Density Functional Theory Studies of the Adsorption and Interactions between Selenium Species and Mercury on Activated Carbon. <i>Energy & Fuels</i> , 2020, 34, 9779-9786.	5.1	16
30	Enhancement of CeO ₂ modified commercial SCR catalyst for synergistic mercury removal from coal combustion flue gas. <i>RSC Advances</i> , 2020, 10, 25325-25338.	3.6	18
31	Removal of elemental mercury from flue gas by recyclable CuCl ₂ modified magnetospheres from fly ash: Part 5. Industrial scale studies at a 50MWth coal-fired power plant. <i>Fuel</i> , 2020, 266, 117052.	6.4	30
32	HgCl ₂ Reduction under a Low-Temperature Selective Catalytic Reduction Atmosphere. <i>Energy & Fuels</i> , 2020, 34, 2417-2424.	5.1	6
33	Photocatalytic removal of elemental mercury via Ce-doped TiO ₂ catalyst coupling with a novel optical fiber monolith reactor. <i>Environmental Science and Pollution Research</i> , 2020, 27, 21281-21291.	5.3	6
34	Development of selenized magnetite (Fe ₃ O ₄ ·xSe _y) as an efficient and recyclable trap for elemental mercury sequestration from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2020, 394, 125022.	12.7	47
35	Amorphous molybdenum selenide intercalated magnetite as a recyclable trap for the effective sequestration of elemental mercury. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14955-14965.	10.3	30
36	Amorphous Molybdenum Selenide Nanosheet as an Efficient Trap for the Permanent Sequestration of Vapor-Phase Elemental Mercury. <i>Advanced Science</i> , 2019, 6, 1901410.	11.2	57

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37	Role of SO ₃ in Elemental Mercury Removal by Magnetic Biochar. <i>Energy & Fuels</i> , 2019, 33, 11446-11453.	5.1	17
38	Selenium Functionalized Metal-Organic Framework MIL-101 for Efficient and Permanent Sequestration of Mercury. <i>Environmental Science & Technology</i> , 2019, 53, 2260-2268.	10.0	133
39	Fate of Mercury in Volatiles and Char during in Situ Gasification Chemical-Looping Combustion of Coal. <i>Environmental Science & Technology</i> , 2019, 53, 7887-7892.	10.0	37
40	Research on the Mechanism of Elemental Mercury Removal over Mn-Based SCR Catalysts by a Developed Hg-TPD Method. <i>Energy & Fuels</i> , 2019, 33, 2467-2476.	5.1	27
41	Role of Sulfur Trioxide (SO ₃) in Gas-Phase Elemental Mercury Immobilization by Mineral Sulfide. <i>Environmental Science & Technology</i> , 2019, 53, 3250-3257.	10.0	58
42	Nanosized Copper Selenide Functionalized Zeolitic Imidazolate Framework (CuSe/ZIF-8) for Efficient Immobilization of Gas-Phase Elemental Mercury. <i>Advanced Functional Materials</i> , 2019, 29, 1807191.	14.9	74
43	Nanosized Copper Selenide for Mercury Removal from Indoor Air and Emergency Disposal of Liquid Mercury Leakage. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21881-21889.	3.7	28
44	Elemental mercury oxidation over manganese oxide octahedral molecular sieve catalyst at low flue gas temperature. <i>Chemical Engineering Journal</i> , 2019, 356, 142-150.	12.7	62
45	Role of flue gas components in Hg ₀ oxidation over La _{0.8} Ce _{0.2} MnO ₃ perovskite catalyst in coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2019, 360, 1656-1666.	12.7	56
46	Density Functional Theory Study of Mercury Adsorption on CuS Surface: Effect of Typical Flue Gas Components. <i>Energy & Fuels</i> , 2019, 33, 1540-1546.	5.1	51
47	Porous extruded-spheronized Li ₄ SiO ₄ pellets for cyclic CO ₂ capture. <i>Fuel</i> , 2019, 236, 1043-1049.	6.4	54
48	Removal of elemental mercury from flue gas by recyclable CuCl ₂ modified magnetospheres from fly ash. Part 4. Performance of sorbent injection in an entrained flow reactor system. <i>Fuel</i> , 2018, 220, 403-411.	6.4	70
49	Promotional effect of CuO loading on the catalytic activity and SO ₂ resistance of MnO _x /TiO ₂ catalyst for simultaneous NO reduction and Hg ₀ oxidation. <i>Fuel</i> , 2018, 227, 79-88.	6.4	73
50	Magnetic iron-manganese binary oxide supported on carbon nanofiber (Fe _{3-x} Mn _x O ₄ /CNF) for efficient removal of Hg ₀ from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2018, 334, 216-224.	12.7	135
51	Emission controls of mercury and other trace elements during coal combustion in China: a review. <i>International Geology Review</i> , 2018, 60, 638-670.	2.1	47
52	Elemental Mercury Removal from Flue Gas over TiO ₂ Catalyst in an Internal-Illuminated Honeycomb Photoreactor. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 17348-17355.	3.7	23
53	Synergistic Mercury Removal over the CeMnO ₃ Perovskite Structure Oxide as a Selective Catalytic Reduction Catalyst from Coal Combustion Flue Gas. <i>Energy & Fuels</i> , 2018, 32, 11785-11795.	5.1	42
54	Dual Roles of Nano-Sulfide in Efficient Removal of Elemental Mercury from Coal Combustion Flue Gas within a Wide Temperature Range. <i>Environmental Science & Technology</i> , 2018, 52, 12926-12933.	10.0	52

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55	Fe-modified MnO _x /TiO ₂ as the SCR catalyst for simultaneous removal of NO and mercury from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2018, 348, 618-629.	12.7	131
56	Theoretical Study on Hg ⁰ Adsorption and Oxidation Mechanisms over CuCl ₂ -Impregnated Carbonaceous Material Surface. <i>Energy & Fuels</i> , 2018, 32, 7125-7131.	5.1	13
57	Adsorption and Oxidation of Elemental Mercury on Chlorinated ZnS Surface. <i>Energy & Fuels</i> , 2018, 32, 7745-7751.	5.1	22
58	Sulfur abundant S/FeS ₂ for efficient removal of mercury from coal-fired power plants. <i>Fuel</i> , 2018, 232, 476-484.	6.4	126
59	NH ₃ inhibits mercury oxidation over low-temperature MnO _x /TiO ₂ SCR catalyst. <i>Fuel Processing Technology</i> , 2018, 176, 124-130.	7.2	39
60	Simultaneous NO Reduction and Hg ⁰ Oxidation over La _{0.8} Ce _{0.2} MnO ₃ Perovskite Catalysts at Low Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9374-9385.	3.7	37
61	Multiform Sulfur Adsorption Centers and Copper-Terminated Active Sites of Nano-CuS for Efficient Elemental Mercury Capture from Coal Combustion Flue Gas. <i>Langmuir</i> , 2018, 34, 8739-8749.	3.5	128
62	Stability of mercury on a novel mineral sulfide sorbent used for efficient mercury removal from coal combustion flue gas. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28583-28593.	5.3	32
63	Magnetic Rattle-Type Fe ₃ O ₄ @CuS Nanoparticles as Recyclable Sorbents for Mercury Capture from Coal Combustion Flue Gas. <i>ACS Applied Nano Materials</i> , 2018, 1, 4726-4736.	5.0	100
64	Mercury emission and speciation in fly ash from a 35 MW th large pilot boiler of oxyfuel combustion with different flue gas recycle. <i>Fuel</i> , 2017, 195, 174-181.	6.4	33
65	Simultaneous NO and mercury removal over MnO _x /TiO ₂ catalyst in different atmospheres. <i>Fuel Processing Technology</i> , 2017, 166, 282-290.	7.2	64
66	Mercury removal from flue gas by magnetospheres present in fly ash: Role of iron species and modification by HF. <i>Fuel Processing Technology</i> , 2017, 167, 263-270.	7.2	57
67	Removal of elemental mercury from flue gas by recyclable CuCl ₂ modified magnetospheres catalyst from fly ash. Part 3. Regeneration performance in realistic flue gas atmosphere. <i>Fuel</i> , 2016, 173, 1-7.	6.4	48
68	Mercury Removal by Magnetic Biochar Derived from Simultaneous Activation and Magnetization of Sawdust. <i>Environmental Science & Technology</i> , 2016, 50, 12040-12047.	10.0	327
69	Removal of elemental mercury from flue gas by recyclable CuCl ₂ modified magnetospheres catalyst from fly ash. Part 2. Identification of involved reaction mechanism. <i>Fuel</i> , 2016, 167, 366-374.	6.4	66
70	Removal of elemental mercury from flue gas by recyclable CuCl ₂ modified magnetospheres catalyst from fly ash. Part 1. Catalyst characterization and performance evaluation. <i>Fuel</i> , 2016, 164, 419-428.	6.4	110
71	Mercury Adsorption and Oxidation over Cobalt Oxide Loaded Magnetospheres Catalyst from Fly Ash in Oxyfuel Combustion Flue Gas. <i>Environmental Science & Technology</i> , 2015, 49, 8210-8218.	10.0	88
72	Regenerable Cobalt Oxide Loaded Magnetosphere Catalyst from Fly Ash for Mercury Removal in Coal Combustion Flue Gas. <i>Environmental Science & Technology</i> , 2014, 48, 14837-14843.	10.0	141