

# Naiqiang Yan

## List of Publications by Citations

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131  
papers

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137  
ext. papers

6,593  
ext. citations

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#	Paper	IF	Citations
131	Low temperature selective catalytic reduction of NO with NH <sub>3</sub> over Mn <sub>2</sub> Fe spinel: Performance, mechanism and kinetic study. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 110, 71-80	21.8	344
130	Novel effect of SO <sub>2</sub> on the SCR reaction over CeO <sub>2</sub> : Mechanism and significance. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 136-137, 19-28	21.8	236
129	Status and characteristics of ambient PM <sub>2.5</sub> pollution in global megacities. <i>Environment International</i> , <b>2016</b> , 89-90, 212-21	12.9	215
128	Gaseous Heterogeneous Catalytic Reactions over Mn-Based Oxides for Environmental Applications: A Critical Review. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 8879-8892	10.3	201
127	Catalytic oxidation of elemental mercury over the modified catalyst Mn/ $\alpha$ -Al <sub>2</sub> O <sub>3</sub> at lower temperatures. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 426-31	10.3	192
126	Capture of gaseous elemental mercury from flue gas using a magnetic and sulfur poisoning resistant sorbent Mn/Fe <sub>2</sub> O <sub>3</sub> at lower temperatures. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 186, 508-15	12.8	179
125	Fe <sub>3</sub> Ti spinel for the selective catalytic reduction of NO with NH <sub>3</sub> : Mechanism and structure-activity relationship. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 117-118, 73-80	21.8	153
124	MnOx/Graphene for the Catalytic Oxidation and Adsorption of Elemental Mercury. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 6823-30	10.3	151
123	Adsorption and Catalytic Oxidation of Gaseous Elemental Mercury in Flue Gas over MnOx/Alumina. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 3317-3322	3.9	148
122	Remarkable effect of the incorporation of titanium on the catalytic activity and SO <sub>2</sub> poisoning resistance of magnetic Mn <sub>2</sub> Fe spinel for elemental mercury capture. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 101, 698-708	21.8	143
121	Gaseous elemental mercury capture from flue gas using magnetic nanosized (Fe <sub>3-x</sub> Mnx) <sub>1-<math>\delta</math></sub> . <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1540-6	10.3	139
120	Significance of RuO <sub>2</sub> modified SCR catalyst for elemental mercury oxidation in coal-fired flue gas. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 5725-30	10.3	114
119	Nanosized cation-deficient Fe-Ti spinel: a novel magnetic sorbent for elemental mercury capture from flue gas. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 209-17	9.5	112
118	A novel method for the sequential removal and separation of multiple heavy metals from wastewater. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 342, 617-624	12.8	105
117	Catalytic oxidation and adsorption of Hg <sup>0</sup> over low-temperature NH <sub>3</sub> -SCR LaMnO <sub>3</sub> perovskite oxide from flue gas. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 186, 30-40	21.8	99
116	Improvement of the Activity of Fe <sub>2</sub> O <sub>3</sub> for the Selective Catalytic Reduction of NO with NH <sub>3</sub> at High Temperatures: NO Reduction versus NH <sub>3</sub> Oxidization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 5601-5610	3.9	93
115	Elemental Mercury Capture from Flue Gas by Magnetic Mn <sub>2</sub> Fe Spinel: Effect of Chemical Heterogeneity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 9650-9656	3.9	91

114	Novel regenerable sorbent based on Zr-Mn binary metal oxides for flue gas mercury retention and recovery. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 261, 206-13	12.8	87
113	Recyclable CuS sorbent with large mercury adsorption capacity in the presence of SO <sub>2</sub> from non-ferrous metal smelting flue gas. <i>Fuel</i> , <b>2019</b> , 235, 847-854	7.1	86
112	Different crystal-forms of one-dimensional MnO <sub>2</sub> nanomaterials for the catalytic oxidation and adsorption of elemental mercury. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 299, 86-93	12.8	84
111	Substitution of WO <sub>3</sub> in V <sub>2</sub> O <sub>5</sub> /WO <sub>3</sub> /TiO <sub>2</sub> by Fe <sub>2</sub> O <sub>3</sub> for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 161-168	5.5	81
110	[MoS] Cluster Bridges in Co-Fe Layered Double Hydroxides for Mercury Uptake from S-Hg Mixed Flue Gas. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 10109-10116	10.3	77
109	Design of 3D MnO/Carbon sphere composite for the catalytic oxidation and adsorption of elemental mercury. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 342, 69-76	12.8	77
108	β-Cyclodextrin stabilized magnetic Fe <sub>3</sub> S <sub>4</sub> nanoparticles for efficient removal of Pb(II). <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15755-15763	13	72
107	Competition of selective catalytic reduction and non selective catalytic reduction over MnO <sub>x</sub> /TiO <sub>2</sub> for NO removal: the relationship between gaseous NO concentration and N <sub>2</sub> O selectivity. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 224-232	5.5	71
106	Ultraeffective ZnS nanocrystals sorbent for mercury(II) removal based on size-dependent cation exchange. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 18026-32	9.5	63
105	Mechanism of the selective catalytic oxidation of slip ammonia over Ru-modified Ce-Zr complexes determined by in situ diffuse reflectance infrared Fourier transform spectroscopy. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 12199-205	10.3	61
104	Morphology-dependent properties of Co <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> catalysts for low temperature dibromomethane (CH <sub>2</sub> Br <sub>2</sub> ) oxidation. <i>Chemical Engineering Journal</i> , <b>2017</b> , 320, 124-134	14.7	60
103	Design of MnO/CeO-MnO hierarchical binary oxides for elemental mercury removal from coal-fired flue gas. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 333, 186-193	12.8	58
102	One Step Interface Activation of ZnS Using Cupric Ions for Mercury Recovery from Nonferrous Smelting Flue Gas. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 4511-4518	10.3	57
101	Graphene enhanced Mn-Ce binary metal oxides for catalytic oxidation and adsorption of elemental mercury from coal-fired flue gas. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 1499-1506	14.7	56
100	A novel multi-functional magnetic Fe-Ti-V spinel catalyst for elemental mercury capture and callback from flue gas. <i>Chemical Communications</i> , <b>2010</b> , 46, 8377-9	5.8	52
99	Novel Effective Catalyst for Elemental Mercury Removal from Coal-Fired Flue Gas and the Mechanism Investigation. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 2564-72	10.3	50
98	Utilization of Ag nanoparticles anchored in covalent organic frameworks for mercury removal from acidic waste water. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 121824	12.8	49
97	Bromine chloride as an oxidant to improve elemental mercury removal from coal-fired flue gas. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8610-5	10.3	48

96	A novel magnetic Fe <sub>3</sub> Ti <sub>4</sub> spinel catalyst for the selective catalytic reduction of NO with NH <sub>3</sub> in a broad temperature range. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 915	5.5	47
95	Research of mercury removal from sintering flue gas of iron and steel by the open metal site of Mil-101(Cr). <i>Journal of Hazardous Materials</i> , <b>2018</b> , 351, 301-307	12.8	46
94	Novel effect of SO <sub>2</sub> on selective catalytic oxidation of slip ammonia from coal-fired flue gas over IrO <sub>2</sub> modified CeZr solid solution and the mechanism investigation. <i>Fuel</i> , <b>2016</b> , 166, 179-187	7.1	45
93	Ag-Fe <sub>3</sub> O <sub>4</sub> @rGO ternary magnetic adsorbent for gaseous elemental mercury removal from coal-fired flue gas. <i>Fuel</i> , <b>2019</b> , 239, 579-586	7.1	44
92	Enhancing photocatalytic activity on gas-phase heavy metal oxidation with self-assembled BiOI/BiOCl microflowers. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 546, 32-42	9.3	43
91	Conversion of elemental mercury with a novel membrane catalytic system at low temperature. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 213-214, 62-70	12.8	43
90	Study on the regenerable sulfur-resistant sorbent for mercury removal from nonferrous metal smelting flue gas. <i>Fuel</i> , <b>2019</b> , 241, 451-458	7.1	43
89	Cu-BTC as a novel material for elemental mercury removal from sintering gas. <i>Fuel</i> , <b>2018</b> , 217, 297-305	7.1	41
88	Sn-Mn binary metal oxides as non-carbon sorbent for mercury removal in a wide-temperature window. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 428, 121-7	9.3	41
87	Stabilization of mercury over Mn-based oxides: Speciation and reactivity by temperature programmed desorption analysis. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 321, 745-752	12.8	41
86	The co-benefit of elemental mercury oxidation and slip ammonia abatement with SCR-Plus catalysts. <i>Fuel</i> , <b>2014</b> , 133, 263-269	7.1	40
85	Regenerable Sorbent with a High Capacity for Elemental Mercury Removal and Recycling from the Simulated Flue Gas at a Low Temperature. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 6187-6196	4.1	37
84	The cooperation of FeSn in a MnOx complex sorbent used for capturing elemental mercury. <i>Fuel</i> , <b>2015</b> , 140, 803-809	7.1	37
83	Regenerable Ag/graphene sorbent for elemental mercury capture at ambient temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 476, 83-89	5.1	32
82	Surface nano-traps of FeO/COFs for arsenic(III) depth removal from wastewater in non-ferrous smelting industry. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122559	14.7	32
81	Combined effects of Ag and UiO-66 for removal of elemental mercury from flue gas. <i>Chemosphere</i> , <b>2018</b> , 197, 65-72	8.4	31
80	Mn-Promoted Co <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> as an efficient catalyst for catalytic oxidation of dibromomethane (CH <sub>2</sub> Br <sub>2</sub> ). <i>Journal of Hazardous Materials</i> , <b>2016</b> , 318, 1-8	12.8	31
79	Investigation on mercury removal method from flue gas in the presence of sulfur dioxide. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 279, 289-95	12.8	30

78	Immobilization of elemental mercury in non-ferrous metal smelting gas using ZnSe <sub>1-x</sub> S <sub>x</sub> nanoparticles. <i>Fuel</i> , <b>2019</b> , 254, 115641	7.1	29
77	Enhancement of heterogeneous oxidation and adsorption of Hg <sup>0</sup> in a wide temperature window using SnO <sub>2</sub> supported LaMnO <sub>3</sub> perovskite oxide. <i>Chemical Engineering Journal</i> , <b>2016</b> , 292, 123-129	14.7	27
76	Ag-Mo modified SCR catalyst for a co-beneficial oxidation of elemental mercury at wide temperature range. <i>Fuel</i> , <b>2017</b> , 200, 236-243	7.1	26
75	Alkali-induced deactivation mechanism of V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> catalyst during selective catalytic reduction of NO by NH <sub>3</sub> in aluminum hydrate calcining flue gas. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 270, 118872	21.8	26
74	The role of iodine monochloride for the oxidation of elemental mercury. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 183, 132-7	12.8	26
73	Ag-modified Ag <sub>2</sub> MoO <sub>4</sub> as an excellent and durable catalyst for catalytic oxidation of elemental mercury. <i>RSC Advances</i> , <b>2015</b> , 5, 30841-30850	3.7	25
72	Size-dependent nanocrystal sorbent for copper removal from water. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 565-570	14.7	25
71	The performance of Ag doped V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalyst on the catalytic oxidation of gaseous elemental mercury. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 4036-4044	5.5	24
70	Co-benefit of Ag and Mo for the catalytic oxidation of elemental mercury. <i>Fuel</i> , <b>2015</b> , 158, 891-897	7.1	24
69	Synthesis and characterization of nano-sized Mn <sub>2</sub> O <sub>3</sub> catalysts and their application to removal of gaseous elemental mercury. <i>Research on Chemical Intermediates</i> , <b>2012</b> , 38, 2511-2522	2.8	24
68	Dual-functional Sites for Selective Adsorption of Mercury and Arsenic ions in [SnS]/MgFe-LDH from Wastewater. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123940	12.8	24
67	Study on a new wet flue gas desulfurization method based on the Bunsen reaction of sulfur-iodine thermochemical cycle. <i>Fuel</i> , <b>2017</b> , 195, 33-37	7.1	22
66	Synthesis, characterization and experimental investigation of Cu-BTC as CO <sub>2</sub> adsorbent from flue gas. <i>Journal of Environmental Sciences</i> , <b>2012</b> , 24, 640-4	6.4	22
65	Enhancing the catalytic oxidation of elemental mercury and suppressing sulfur-toxic adsorption sites from SO <sub>2</sub> -containing gas in Mn-SnS. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122230	12.8	21
64	Elemental mercury (Hg <sup>0</sup> ) removal over spinel LiMn <sub>2</sub> O <sub>4</sub> from coal-fired flue gas. <i>Chemical Engineering Journal</i> , <b>2016</b> , 299, 142-149	14.7	21
63	The performance and mechanism of Ag-doped CeO <sub>2</sub> /TiO <sub>2</sub> catalysts in the catalytic oxidation of gaseous elemental mercury. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2985-2993	5.5	20
62	An enhancement method for the elemental mercury removal from coal-fired flue gas based on novel discharge activation reactor. <i>Fuel</i> , <b>2016</b> , 171, 59-64	7.1	19
61	Chemical characteristics of fine particulate matter emitted from commercial cooking. <i>Frontiers of Environmental Science and Engineering</i> , <b>2016</b> , 10, 559-568	5.8	19

60	Ordered mesoporous spinel Co <sub>3</sub> O <sub>4</sub> as a promising catalyst for the catalytic oxidation of dibromomethane. <i>Molecular Catalysis</i> , <b>2018</b> , 461, 60-66	3.3	19
59	Mass extinction efficiency and extinction hygroscopicity of ambient PM in urban China. <i>Environmental Research</i> , <b>2017</b> , 156, 239-246	7.9	18
58	Morphology-controlled synthesis and sulfur modification of 3D hierarchical layered double hydroxides for gaseous elemental mercury removal. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 536, 431-439	9.3	18
57	Atomically Dispersed Manganese on a Carbon-Based Material for the Capture of Gaseous Mercury: Mechanisms and Environmental Applications. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 5249-5257	10.3	17
56	Co-doped ZnS with large adsorption capacity for recovering Hg from non-ferrous metal smelting gas as a co-benefit of electrostatic demisters. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 20469-20477	5.1	17
55	Mn-based perovskite oxides for Hg <sub>0</sub> adsorption and regeneration via a temperature swing adsorption (TSA) process. <i>Fuel</i> , <b>2016</b> , 182, 428-436	7.1	17
54	Gaseous mercury capture using supported Cu <sub>x</sub> on layered double hydroxides from SO <sub>2</sub> -rich flue gas. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125963	14.7	17
53	Multiphase Reactions between Secondary Organic Aerosol and Sulfur Dioxide: Kinetics and Contributions to Sulfate Formation and Aerosol Aging. <i>Environmental Science and Technology Letters</i> , <b>2019</b> , 6, 768-774	11	17
52	CO <sub>2</sub> adsorption performance of ZIF-7 and its endurance in flue gas components. <i>Frontiers of Environmental Science and Engineering</i> , <b>2014</b> , 8, 162-168	5.8	16
51	Conversion of elemental mercury with a novel membrane delivery catalytic oxidation system (MDCOs). <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 706-11	10.3	16
50	Shell-thickness-induced spontaneous inward migration of mercury in porous ZnO@CuS for gaseous mercury immobilization. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127592	14.7	15
49	Design of Co <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> /Co <sub>3</sub> O <sub>4</sub> hierarchical binary oxides for the catalytic oxidation of dibromomethane. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 73, 134-141	6.3	14
48	Acceleration of Hg Adsorption onto Natural Sphalerite by Cu Activation during Flotation: Mechanism and Applications in Hg Recovery. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7687-7696	10.3	14
47	Reaction mechanism of propane oxidation over Co <sub>3</sub> O <sub>4</sub> nanorods as rivals of platinum catalysts. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 125911	14.7	14
46	A sulfur-resistant CuS-modified active coke for mercury removal from municipal solid waste incineration flue gas. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 24831-24839	5.1	14
45	[SnS] clusters modified MgAl-LDH composites for mercury ions removal from acid wastewater. <i>Environmental Pollution</i> , <b>2019</b> , 247, 146-154	9.3	14
44	Stepwise Ions Incorporation Method for Continuously Activating PbS to Recover Mercury from Hg-Rich Flue Gas. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 11594-11601	10.3	13
43	Surface acidity enhancement of CeO <sub>2</sub> catalysts via modification with a heteropoly acid for the selective catalytic reduction of NO with ammonia. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 5774-5785	5.5	12

42	Removal of Dibenzothiophene from the Simulated Petroleum by Irradiation Induced Reaction. <i>Energy &amp; Fuels</i> , <b>2006</b> , 20, 142-147	4.1	12
41	Enhancement of Ce <sub>1-x</sub> Sn <sub>x</sub> O <sub>2</sub> support in LaMnO <sub>3</sub> for the catalytic oxidation and adsorption of elemental mercury. <i>RSC Advances</i> , <b>2016</b> , 6, 63559-63567	3.7	12
40	The performance and mechanism for the catalytic oxidation of dibromomethane (CH <sub>2</sub> Br <sub>2</sub> ) over Co <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> catalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 31181-31190	3.7	12
39	Manganese bridge of mercury and oxygen for elemental mercury capture from industrial flue gas in layered Mn/MCM-22 zeolite. <i>Fuel</i> , <b>2021</b> , 283, 118973	7.1	12
38	Catalytic oxidation of dibromomethane over Ti-modified CoO catalysts: Structure, activity and mechanism. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 505, 870-883	9.3	11
37	Insight into the interfacial stability and reaction mechanism between gaseous mercury and chalcogen-based sorbents in SO <sub>2</sub> -containing flue gas. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 577, 503-511	9.3	9
36	Absorption characteristics of elemental mercury in mercury chloride solutions. <i>Journal of Environmental Sciences</i> , <b>2014</b> , 26, 2257-65	6.4	9
35	Review of Sulfur Promotion Effects on Metal Oxide Catalysts for NO <sub>x</sub> Emission Control. <i>ACS Catalysis</i> , 13119-13139	13.1	9
34	Mercury removal from flue gas using UiO-66-type metal-organic frameworks grafted with organic functionalities. <i>Fuel</i> , <b>2021</b> , 289, 119807	7.1	9
33	Synergistic interaction and mechanistic evaluation of NO oxidation catalysis on Pt/Fe <sub>2</sub> O <sub>3</sub> cubes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127447	14.7	9
32	Removal of mercury from flue gas from nonferrous metal smelting, by use of mercury chloride solution, and mechanisms of inhibition by sulfur dioxide. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 5889-5905	2.8	8
31	A hybrid block consisting of covalent triazine frameworks and GO aerogel with switchable selectivity between adsorption of UV filters and regeneration under sunlight. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125074	14.7	8
30	Adsorption of Gaseous Mercury for Engineering Optimization: From Macrodynamics to Adsorption Kinetics and Thermodynamics. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 865-873		8
29	Bidirectional Progressive Optimization of Carbon and Nitrogen Defects in Solar-Driven Regenerable Adsorbent to Remove UV-Filters from Water. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 456-466		8
28	Catalytic performance and mechanistic evaluation of sulfated CeO cubes for selective catalytic reduction of NO with ammonia. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 420, 126545	12.8	7
27	Promoting effect of Mn and Ti on the structure and performance of Co <sub>3</sub> O <sub>4</sub> catalysts for oxidation of dibromomethane. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 57, 208-215	6.3	6
26	Selective Reductive Removal of Silver Ions from Acidic Solutions by Redox-Active Covalent Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37619-37627	9.5	6
25	Metastable Facet-Controlled CuWS Single Crystals with Enhanced Adsorption Activity for Gaseous Elemental Mercury. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 5347-5356	10.3	6

24	Fabrication of Cu <sub>2</sub> S hollow nanocages with enhanced high-temperature adsorption activity and recyclability for elemental mercury capture. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130935	14.7	6
23	Reconstructed algorithm for scattering coefficient of ambient submicron particles. <i>Environmental Pollution</i> , <b>2019</b> , 253, 439-448	9.3	5
22	Removal of dibenzothiophene from simulated petroleum by integrated $\gamma$ irradiation and Zr/alumina catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 71, 108-115	21.8	5
21	Modeling of formaldehyde destruction under pulsed discharge plasma. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2000</b> , 35, 1951-1964	2.3	5
20	Zinc concentrate internal circulation technology for elemental mercury recovery from zinc smelting flue gas. <i>Fuel</i> , <b>2020</b> , 280, 118566	7.1	5
19	Seasonal variation of aerosol compositions in Shanghai, China: Insights from particle aerosol mass spectrometer observations. <i>Science of the Total Environment</i> , <b>2021</b> , 771, 144948	10.2	5
18	Production of HS with a Novel Short-Process for the Removal of Heavy Metals in Acidic Effluents from Smelting Flue-Gas Scrubbing Systems. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 3988-3995	10.3	4
17	Removal of elemental mercury with Mn/Mo/Ru/Al <sub>2</sub> O <sub>3</sub> membrane catalytic system. <i>Frontiers of Environmental Science and Engineering</i> , <b>2013</b> , 7, 464-473	5.8	3
16	Degradation of dodecanethiol in dodecane by $\gamma$ irradiation and improvement by sensitization. <i>Fuel Processing Technology</i> , <b>2004</b> , 85, 1393-1402	7.2	3
15	Regulation of the Sulfur Environment in Clusters to Construct a Mn-SnS Framework for Mercury Bonding.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	3
14	Radical-Induced Oxidation Removal of Mercury by Ozone Coupled with Bromine. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 110-116		3
13	Boosting RuO <sub>2</sub> Surface Reactivity by Cu Active Sites over Ru/Cu-SSZ-13 for Simultaneous Catalytic Oxidation of CO and NH <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 17031-17041	3.8	3
12	Heterogeneous Reaction Mechanisms and Functional Materials for Elemental Mercury Removal from Industrial Flue Gas. <i>ACS ES&amp;T Engineering</i> ,		3
11	Enhanced simultaneous absorption of NO and SO in oxidation-reduction-absorption process with a compounded system based on NaSO <sub>3</sub> . <i>Journal of Environmental Sciences</i> , <b>2022</b> , 111, 1-10	6.4	3
10	Superior Hg capture performance and SO resistance of Co-Mn binary metal oxide-modified layered MCM-22 zeolite for SO-containing flue gas. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 16447-16457	5.1	3
9	Removal Characteristics of Hydrogen Sulfide in Biofilters with Fibrous Peat and Resin <b>2008</b> ,		2
8	Strengthen the Affinity of Element Mercury on the Carbon-Based Material by Adjusting the Coordination Environment of Single-Site Manganese. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 14126-14135	10.3	2
7	NO <sub>x</sub> Absorption Enhancement and Sulfite Oxidation Inhibition via a Match Strategy in Na <sub>2</sub> SO <sub>3</sub> Solution from a Wet Flue Gas Denitration System. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 100-109		1



6	Importance of Hydroxyl Radical Chemistry in Isoprene Suppression of Particle Formation from $\beta$ -Pinene Ozonolysis. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 487-499	3.2	1
5	Surface protection method for the magnetic core using covalent organic framework shells and its application in As(III) depth removal from acid wastewater.. <i>Journal of Environmental Sciences</i> , <b>2022</b> , 115, 1-9	6.4	1
4	Excellent adsorption performance and capacity of modified layered ITQ-2 zeolites for elemental mercury removal and recycling from flue gas. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127118	12.8	1
3	Selective uptake of gaseous sulfur trioxide and mercury in ZnO-CuS composite at elevated temperatures from SO <sub>2</sub> -rich flue gas. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 132035	14.7	1
2	Flower-like Co <sub>3</sub> O <sub>4</sub> Catalysts for Efficient Catalytic Oxidation of Multi-Pollutants from Diesel Exhaust. <i>Catalysts</i> , <b>2022</b> , 12, 527	4	1
1	Sustained-release of interlayer chloride in iron oxychloride for mercury oxidation from industrial flue gas. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132502	14.7	0