

# Naiqiang Yan

## List of Publications by Year in descending order

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137  
papers

7,621  
citations

44069

48  
h-index

58581

82  
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137  
all docs

137  
docs citations

137  
times ranked

4685  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low temperature selective catalytic reduction of NO with NH <sub>3</sub> over Mn <sup>2+</sup> /Fe spinel: Performance, mechanism and kinetic study. <i>Applied Catalysis B: Environmental</i> , 2011, 110, 71-80.	20.2	429
2	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> , 2013, 136-137, 19-28.	20.2	312
3	Gaseous Heterogeneous Catalytic Reactions over Mn-Based Oxides for Environmental Applications: A Critical Review. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8879-8892.	10.0	291
4	Status and characteristics of ambient PM <sub>2.5</sub> pollution in global megacities. <i>Environment International</i> , 2016, 89-90, 212-221.	10.0	287
5	Capture of gaseous elemental mercury from flue gas using a magnetic and sulfur poisoning resistant sorbent Mn <sup>2+</sup> /Fe <sub>2</sub> O <sub>3</sub> at lower temperatures. <i>Journal of Hazardous Materials</i> , 2011, 186, 508-515.	12.4	206
6	Catalytic Oxidation of Elemental Mercury over the Modified Catalyst Mn <sup>2+</sup> /Al <sub>2</sub> O <sub>3</sub> at Lower Temperatures. <i>Environmental Science &amp; Technology</i> , 2010, 44, 426-431.	10.0	205
7	Fe <sup>2+</sup> /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> , 2012, 117-118, 73-80.	20.2	178
8	MnO <sub>x</sub> /Graphene for the Catalytic Oxidation and Adsorption of Elemental Mercury. <i>Environmental Science &amp; Technology</i> , 2015, 49, 6823-6830.	10.0	177
9	Remarkable effect of the incorporation of titanium on the catalytic activity and SO <sub>2</sub> poisoning resistance of magnetic Mn <sup>2+</sup> /Fe spinel for elemental mercury capture. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 698-708.	20.2	167
10	Adsorption and Catalytic Oxidation of Gaseous Elemental Mercury in Flue Gas over MnO <sub>x</sub> /Alumina. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 3317-3322.	3.7	164
11	Gaseous Elemental Mercury Capture from Flue Gas Using Magnetic Nanosized (Fe <sub>3</sub> O <sub>4</sub> /Mn <sub>2</sub> O <sub>3</sub> ). <i>Environmental Science &amp; Technology</i> , 2011, 45, 1540-1546.	10.0	161
12	A novel method for the sequential removal and separation of multiple heavy metals from wastewater. <i>Journal of Hazardous Materials</i> , 2018, 342, 617-624.	12.4	143
13	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> , 2019, 235, 847-854.	6.4	139
14	Nanosized Cation-Deficient Fe <sup>2+</sup> /Ti Spinel: A Novel Magnetic Sorbent for Elemental Mercury Capture from Flue Gas. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 209-217.	8.0	137
15	Catalytic oxidation and adsorption of HgO over low-temperature NH <sub>3</sub> -SCR LaMnO <sub>3</sub> perovskite oxide from flue gas. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 30-40.	20.2	134
16	Significance of RuO <sub>2</sub> Modified SCR Catalyst for Elemental Mercury Oxidation in Coal-fired Flue Gas. <i>Environmental Science &amp; Technology</i> , 2011, 45, 5725-5730.	10.0	126
17	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> Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 5601-5610.	3.7	118
18	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> , 2015, 299, 86-93.	12.4	112

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19	Elemental Mercury Capture from Flue Gas by Magnetic Mn <sup>2+</sup> /Fe Spinel: Effect of Chemical Heterogeneity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 9650-9656.	3.7	111
20	[MoS <sub>4</sub> ] <sup>2-</sup> Cluster Bridges in Co <sup>2+</sup> /Fe Layered Double Hydroxides for Mercury Uptake from S <sup>2-</sup> /Hg Mixed Flue Gas. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10109-10116.	10.0	104
21	Design of 3D MnO <sub>2</sub> /Carbon sphere composite for the catalytic oxidation and adsorption of elemental mercury. <i>Journal of Hazardous Materials</i> , 2018, 342, 69-76.	12.4	100
22	Novel regenerable sorbent based on Zr <sup>4+</sup> /Mn binary metal oxides for flue gas mercury retention and recovery. <i>Journal of Hazardous Materials</i> , 2013, 261, 206-213.	12.4	97
23	One Step Interface Activation of ZnS Using Cupric Ions for Mercury Recovery from Nonferrous Smelting Flue Gas. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4511-4518.	10.0	96
24	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> , 2015, 3, 15755-15763.	10.3	92
25	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> , 2013, 3, 161-168.	4.1	90
26	Mechanism of the Selective Catalytic Oxidation of Slip Ammonia over Ru-Modified Ce <sup>4+</sup> /Zr Complexes Determined by in Situ Diffuse Reflectance Infrared Fourier Transform Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12199-12205.	10.0	89
27	Utilization of Ag nanoparticles anchored in covalent organic frameworks for mercury removal from acidic waste water. <i>Journal of Hazardous Materials</i> , 2020, 389, 121824.	12.4	86
28	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> , 2019, 358, 1499-1506.	12.7	79
29	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> , 2017, 320, 124-134.	12.7	77
30	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> , 2014, 4, 224-232.	4.1	76
31	Ultraeffective ZnS Nanocrystals Sorbent for Mercury(II) Removal Based on Size-Dependent Cation Exchange. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18026-18032.	8.0	75
32	Design of MnO <sub>2</sub> /CeO <sub>2</sub> -MnO <sub>2</sub> hierarchical binary oxides for elemental mercury removal from coal-fired flue gas. <i>Journal of Hazardous Materials</i> , 2017, 333, 186-193.	12.4	73
33	Enhancing photocatalytic activity on gas-phase heavy metal oxidation with self-assembled BiOI/BiOCl microflowers. <i>Journal of Colloid and Interface Science</i> , 2019, 546, 32-42.	9.4	73
34	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> , 2018, 351, 301-307.	12.4	70
35	Review of Sulfur Promotion Effects on Metal Oxide Catalysts for NO <sub>x</sub> Emission Control. <i>ACS Catalysis</i> , 2021, 11, 13119-13139.	11.2	69
36	Novel Effective Catalyst for Elemental Mercury Removal from Coal-Fired Flue Gas and the Mechanism Investigation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2564-2572.	10.0	64

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37	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 Ce-Zr solid solution and the mechanism investigation. <i>Fuel</i> , 2016, 166, 179-187.	6.4	62
38	Surface nano-traps of FeO/COFs for arsenic(III) depth removal from wastewater in non-ferrous smelting industry. <i>Chemical Engineering Journal</i> , 2020, 381, 122559.	12.7	62
39	Study on the regenerable sulfur-resistant sorbent for mercury removal from nonferrous metal smelting flue gas. <i>Fuel</i> , 2019, 241, 451-458.	6.4	60
40	Stabilization of mercury over Mn-based oxides: Speciation and reactivity by temperature programmed desorption analysis. <i>Journal of Hazardous Materials</i> , 2017, 321, 745-752.	12.4	58
41	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> , 2019, 239, 579-586.	6.4	58
42	A novel multi-functional magnetic Fe-Ti-V spinel catalyst for elemental mercury capture and callback from flue gas. <i>Chemical Communications</i> , 2010, 46, 8377.	4.1	56
43	Cu-BTC as a novel material for elemental mercury removal from sintering gas. <i>Fuel</i> , 2018, 217, 297-305.	6.4	55
44	A novel magnetic Fe-Ti-V 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> , 2012, 2, 915.	4.1	53
45	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> , 2020, 270, 118872.	20.2	53
46	Bromine Chloride as an Oxidant to Improve Elemental Mercury Removal from Coal-Fired Flue Gas. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8610-8615.	10.0	52
47	Dual-functional Sites for Selective Adsorption of Mercury and Arsenic ions in [SnS <sub>4</sub> ] <sub>4</sub> /MgFe-LDH from Wastewater. <i>Journal of Hazardous Materials</i> , 2021, 403, 123940.	12.4	52
48	The co-benefit of elemental mercury oxidation and slip ammonia abatement with SCR-Plus catalysts. <i>Fuel</i> , 2014, 133, 263-269.	6.4	51
49	Combined effects of Ag and UiO-66 for removal of elemental mercury from flue gas. <i>Chemosphere</i> , 2018, 197, 65-72.	8.2	49
50	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> , 2014, 428, 121-127.	9.4	47
51	Conversion of elemental mercury with a novel membrane catalytic system at low temperature. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 62-70.	12.4	45
52	The cooperation of FeSn in a MnO <sub>x</sub> complex sorbent used for capturing elemental mercury. <i>Fuel</i> , 2015, 140, 803-809.	6.4	45
53	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> , 2020, 402, 125911.	12.7	45
54	Enhancement of heterogeneous oxidation and adsorption of Hg <sub>0</sub> in a wide temperature window using SnO <sub>2</sub> supported LaMnO <sub>3</sub> perovskite oxide. <i>Chemical Engineering Journal</i> , 2016, 292, 123-129.	12.7	44

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55	Immobilization of elemental mercury in non-ferrous metal smelting gas using ZnSe <sub>1-x</sub> S <sub>x</sub> nanoparticles. <i>Fuel</i> , 2019, 254, 115641.	6.4	44
56	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> , 2015, 29, 6187-6196.	5.1	42
57	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> , 2019, 6, 768-774.	8.7	42
58	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> , 2016, 318, 1-8.	12.4	41
59	Regenerable Ag/graphene sorbent for elemental mercury capture at ambient temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 476, 83-89.	4.7	40
60	Enhancing the catalytic oxidation of elemental mercury and suppressing sulfur-toxic adsorption sites from SO <sub>2</sub> -containing gas in Mn-SnS <sub>2</sub> . <i>Journal of Hazardous Materials</i> , 2020, 392, 122230.	12.4	39
61	Ag-Mo modified SCR catalyst for a co-beneficial oxidation of elemental mercury at wide temperature range. <i>Fuel</i> , 2017, 200, 236-243.	6.4	38
62	Acceleration of Hg <sup>0</sup> Adsorption onto Natural Sphalerite by Cu <sup>2+</sup> Activation during Flotation: Mechanism and Applications in Hg <sup>0</sup> Recovery. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7687-7696.	10.0	35
63	Investigation on mercury removal method from flue gas in the presence of sulfur dioxide. <i>Journal of Hazardous Materials</i> , 2014, 279, 289-295.	12.4	34
64	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> , 2020, 400, 125963.	12.7	34
65	Chemical characteristics of fine particulate matter emitted from commercial cooking. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 559-568.	6.0	33
66	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> , 2019, 9, 5774-5785.	4.1	33
67	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> , 2018, 461, 60-66.	2.0	31
68	Co-benefit of Ag and Mo for the catalytic oxidation of elemental mercury. <i>Fuel</i> , 2015, 158, 891-897.	6.4	30
69	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> , 2016, 299, 142-149.	12.7	30
70	Study on a new wet flue gas desulfurization method based on the Bunsen reaction of sulfur-iodine thermochemical cycle. <i>Fuel</i> , 2017, 195, 33-37.	6.4	30
71	Co-doped ZnS with large adsorption capacity for recovering Hg <sup>0</sup> from non-ferrous metal smelting gas as a co-benefit of electrostatic demisters. <i>Environmental Science and Pollution Research</i> , 2020, 27, 20469-20477.	5.3	29
72	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> , 2021, 1, 456-466.	7.6	29

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73	Size-dependent nanocrystal sorbent for copper removal from water. <i>Chemical Engineering Journal</i> , 2016, 284, 565-570.	12.7	28
74	Manganese bridge of mercury and oxygen for elemental mercury capture from industrial flue gas in layered Mn/MCM-22 zeolite. <i>Fuel</i> , 2021, 283, 118973.	6.4	28
75	Shell-thickness-induced spontaneous inward migration of mercury in porous ZnO@CuS for gaseous mercury immobilization. <i>Chemical Engineering Journal</i> , 2021, 420, 127592.	12.7	28
76	The role of iodine monochloride for the oxidation of elemental mercury. <i>Journal of Hazardous Materials</i> , 2010, 183, 132-137.	12.4	27
77	Synthesis, characterization and experimental investigation of Cu-BTC as CO <sub>2</sub> adsorbent from flue gas. <i>Journal of Environmental Sciences</i> , 2012, 24, 640-644.	6.1	27
78	The performance of Ag doped V <sub>2</sub> O <sub>5</sub> â€“TiO <sub>2</sub> catalyst on the catalytic oxidation of gaseous elemental mercury. <i>Catalysis Science and Technology</i> , 2014, 4, 4036-4044.	4.1	27
79	Ag-modified AgIâ€“TiO <sub>2</sub> as an excellent and durable catalyst for catalytic oxidation of elemental mercury. <i>RSC Advances</i> , 2015, 5, 30841-30850.	3.6	27
80	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.	7.6	27
81	Catalytic performance and mechanistic evaluation of sulfated CeO <sub>2</sub> cubes for selective catalytic reduction of NO <sub>x</sub> with ammonia. <i>Journal of Hazardous Materials</i> , 2021, 420, 126545.	12.4	27
82	Mass extinction efficiency and extinction hygroscopicity of ambient PM <sub>2.5</sub> in urban China. <i>Environmental Research</i> , 2017, 156, 239-246.	7.5	26
83	A sulfur-resistant CuS-modified active coke for mercury removal from municipal solid waste incineration flue gas. <i>Environmental Science and Pollution Research</i> , 2019, 26, 24831-24839.	5.3	26
84	Atomically Dispersed Manganese on a Carbon-Based Material for the Capture of Gaseous Mercury: Mechanisms and Environmental Applications. <i>Environmental Science &amp; Technology</i> , 2020, 54, 5249-5257.	10.0	26
85	Synthesis and characterization of nano-sized Mnâ€“TiO <sub>2</sub> catalysts and their application to removal of gaseous elemental mercury. <i>Research on Chemical Intermediates</i> , 2012, 38, 2511-2522.	2.7	25
86	Mn-based perovskite oxides for Hg <sup>0</sup> adsorption and regeneration via a temperature swing adsorption (TSA) process. <i>Fuel</i> , 2016, 182, 428-436.	6.4	25
87	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> , 2019, 536, 431-439.	9.4	25
88	Stepwise Ions Incorporation Method for Continuously Activating PbS to Recover Mercury from Hg <sup>0</sup> -Rich Flue Gas. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11594-11601.	10.0	25
89	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> , 2015, 5, 2985-2993.	4.1	24
90	Design of Co <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> â€“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> , 2019, 73, 134-141.	5.8	24

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91	CO <sub>2</sub> adsorption performance of ZIF-7 and its endurance in flue gas components. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 162-168.	6.0	23
92	[SnS <sub>4</sub> ] <sub>4</sub> - clusters modified MgAl-LDH composites for mercury ions removal from acid wastewater. <i>Environmental Pollution</i> , 2019, 247, 146-154.	7.5	21
93	Zinc concentrate internal circulation technology for elemental mercury recovery from zinc smelting flue gas. <i>Fuel</i> , 2020, 280, 118566.	6.4	21
94	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> , 2020, 577, 503-511.	9.4	21
95	Conversion of Elemental Mercury with a Novel Membrane Delivery Catalytic Oxidation System (MDCOs). <i>Environmental Science &amp; Technology</i> , 2011, 45, 706-711.	10.0	20
96	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> , 2021, 413, 127447.	12.7	20
97	Metastable Facet-Controlled Cu <sub>2</sub> WS <sub>4</sub> Single Crystals with Enhanced Adsorption Activity for Gaseous Elemental Mercury. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5347-5356.	10.0	20
98	Regulation of the Sulfur Environment in Clusters to Construct a Mn-S <sub>6</sub> Framework for Mercury Bonding. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2689-2698.	10.0	20
99	An enhancement method for the elemental mercury removal from coal-fired flue gas based on novel discharge activation reactor. <i>Fuel</i> , 2016, 171, 59-64.	6.4	19
100	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> , 2020, 395, 125074.	12.7	19
101	Mercury removal from flue gas using UiO-66-type metal-organic frameworks grafted with organic functionalities. <i>Fuel</i> , 2021, 289, 119807.	6.4	19
102	Production of H <sub>2</sub> S 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> , 2021, 55, 3988-3995.	10.0	19
103	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> , 2021, 55, 14126-14135.	10.0	18
104	Enhancement of Ce <sup>1+</sup> Sn <sup>x</sup> O <sub>2</sub> support in LaMnO <sub>3</sub> for the catalytic oxidation and adsorption of elemental mercury. <i>RSC Advances</i> , 2016, 6, 63559-63567.	3.6	17
105	Selective Reductive Removal of Silver Ions from Acidic Solutions by Redox-Active Covalent Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 37619-37627.	8.0	17
106	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.	7.6	17
107	Seasonal variation of aerosol compositions in Shanghai, China: Insights from particle aerosol mass spectrometer observations. <i>Science of the Total Environment</i> , 2021, 771, 144948.	8.0	17
108	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> , 2016, 6, 31181-31190.	3.6	15



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109	Catalytic oxidation of dibromomethane over Ti-modified Co <sub>3</sub> O <sub>4</sub> catalysts: Structure, activity and mechanism. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 870-883.	9.4	14
110	The Unique CO Activation Effects for Boosting NH <sub>3</sub> Selective Catalytic Oxidation over CuO-xCeO <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , 2022, 56, 10402-10411.	10.0	14
111	Removal of Dibenzothiophene from the Simulated Petroleum by $\gamma$ -Irradiation Induced Reaction. <i>Energy &amp; Fuels</i> , 2006, 20, 142-147.	5.1	13
112	Absorption characteristics of elemental mercury in mercury chloride solutions. <i>Journal of Environmental Sciences</i> , 2014, 26, 2257-2265.	6.1	12
113	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> , 2015, 41, 5889-5905.	2.7	11
114	Enhanced simultaneous absorption of NO and SO <sub>2</sub> in oxidation-reduction-absorption process with a compounded system based on Na <sub>2</sub> SO <sub>3</sub> . <i>Journal of Environmental Sciences</i> , 2022, 111, 1-10.	6.1	11
115	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> , 2022, 427, 130935.	12.7	11
116	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> , 2022, 427, 132035.	12.7	11
117	Superior Hg <sub>0</sub> capture performance and SO <sub>2</sub> resistance of Co-Mn binary metal oxide-modified layered MCM-22 zeolite for SO <sub>2</sub> -containing flue gas. <i>Environmental Science and Pollution Research</i> , 2021, 28, 16447-16457.	5.3	11
118	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> , 2018, 57, 208-215.	5.8	10
119	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> , 2021, 125, 17031-17041.	3.1	10
120	Tunable Redox Cycle and Enhanced $\pi$ -Complexation in Acetylene Hydrochlorination over RuCu Catalysts. <i>ACS Catalysis</i> , 2022, 12, 7579-7588.	11.2	10
121	Importance of Hydroxyl Radical Chemistry in Isoprene Suppression of Particle Formation from $\alpha$ -Pinene Ozonolysis. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 487-499.	2.7	9
122	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> , 2022, 115, 1-9.	6.1	8
123	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> , 2022, 423, 127118.	12.4	8
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