

# Naiqiang Yan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6138289/naiqiang-yan-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

131  
papers

5,546  
citations

42  
h-index

71  
g-index

137  
ext. papers

6,593  
ext. citations

9.6  
avg, IF

5.96  
L-index

#	Paper	IF	Citations
131	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
130	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
129	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
128	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
127	Enhanced simultaneous absorption of NO and SO in oxidation-reduction-absorption process with a compounded system based on NaSO.. <i>Journal of Environmental Sciences</i> , <b>2022</b> , 111, 1-10	6.4	3
126	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
125	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
124	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
123	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
122	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
121	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
120	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
119	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
118	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
117	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
116	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
115	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

114	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
113	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
112	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
111	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
110	Importance of Hydroxyl Radical Chemistry in Isoprene Suppression of Particle Formation from $\alpha$ -Pinene Ozonolysis. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 487-499	3.2	1
109	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
108	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
107	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
106	Insight into the interfacial stability and reaction mechanism between gaseous mercury and chalcogen-based sorbents in SO-containing flue gas. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 577, 503-511	9.3	9
105	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
104	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
103	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
102	Enhancing the catalytic oxidation of elemental mercury and suppressing sulfur-toxic adsorption sites from SO-containing gas in Mn-SnS. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122230	12.8	21
101	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
100	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
99	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
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	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

96	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
95	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
94	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
93	Surface nano-traps of Fe <sub>0</sub> /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
92	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
91	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
90	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
89	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
88	Reconstructed algorithm for scattering coefficient of ambient submicron particles. <i>Environmental Pollution</i> , <b>2019</b> , 253, 439-448	9.3	5
87	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
86	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
85	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
84	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
83	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
82	[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
81	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
80	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
79	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

78	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
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	[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
65	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
64	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
63	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
62	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
61	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

60	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
59	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
58	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
57	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
56	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
55	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
54	Size-dependent nanocrystal sorbent for copper removal from water. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 565-570	14.7	25
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	MnO <sub>x</sub> /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
45	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
44	Ag-modified Ag <sub>3</sub> SiO <sub>2</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
43	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



42	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
41	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
40	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
39	Absorption characteristics of elemental mercury in mercury chloride solutions. <i>Journal of Environmental Sciences</i> , <b>2014</b> , 26, 2257-65	6.4	9
38	Competition of selective catalytic reduction and non selective catalytic reduction over MnOx/TiO2 for NO removal: the relationship between gaseous NO concentration and N2O selectivity. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 224-232	5.5	71
37	The performance of Ag doped V2O5/TiO2 catalyst on the catalytic oxidation of gaseous elemental mercury. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 4036-4044	5.5	24
36	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
35	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
34	CO2 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
33	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
32	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
31	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
30	Removal of elemental mercury with Mn/Mo/Ru/Al2O3 membrane catalytic system. <i>Frontiers of Environmental Science and Engineering</i> , <b>2013</b> , 7, 464-473	5.8	3
29	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
28	Improvement of the Activity of Fe2O3 for the Selective Catalytic Reduction of NO with NH3 at High Temperatures: NO Reduction versus NH3 Oxidization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 5601-5610	3.9	93
27	Novel effect of SO2 on the SCR reaction over CeO2: Mechanism and significance. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 136-137, 19-28	21.8	236
26	Substitution of WO3 in V2O5/WO3/TiO2 by Fe2O3 for selective catalytic reduction of NO with NH3. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 161-168	5.5	81
25	Synthesis, characterization and experimental investigation of Cu-BTC as CO2 adsorbent from flue gas. <i>Journal of Environmental Sciences</i> , <b>2012</b> , 24, 640-4	6.4	22

24	Synthesis and characterization of nano-sized Mn <sub>3</sub> O <sub>4</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
23	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
22	A novel magnetic Fe <sub>3</sub> O <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
21	Fe <sub>3</sub> O <sub>4</sub> 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
20	Elemental Mercury Capture from Flue Gas by Magnetic Mn <sub>3</sub> O <sub>4</sub> Spinel: Effect of Chemical Heterogeneity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 9650-9656	3.9	91
19	Low temperature selective catalytic reduction of NO with NH <sub>3</sub> over Mn <sub>3</sub> O <sub>4</sub> spinel: Performance, mechanism and kinetic study. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 110, 71-80	21.8	344
18	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
17	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
16	Gaseous elemental mercury capture from flue gas using magnetic nanosized (Fe <sub>3-x</sub> Mnx) <sub>2</sub> O <sub>4</sub> . <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1540-6	10.3	139
15	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
14	Remarkable effect of the incorporation of titanium on the catalytic activity and SO <sub>2</sub> poisoning resistance of magnetic Mn <sub>3</sub> O <sub>4</sub> spinel for elemental mercury capture. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 101, 698-708	21.8	143
13	Capture of gaseous elemental mercury from flue gas using a magnetic and sulfur poisoning resistant sorbent Mn <sub>3</sub> O <sub>4</sub> /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
12	Catalytic oxidation of elemental mercury over the modified catalyst Mn/α-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
11	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
10	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
9	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
8	Adsorption and Catalytic Oxidation of Gaseous Elemental Mercury in Flue Gas over MnO <sub>x</sub> /Alumina. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 3317-3322	3.9	148
7	Removal Characteristics of Hydrogen Sulfide in Biofilters with Fibrous Peat and Resin <b>2008</b> ,		2



6	Removal of dibenzothiophene from simulated petroleum by integrated $\gamma$ radiation and Zr/alumina catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 71, 108-115	21.8	5
5	Removal of Dibenzothiophene from the Simulated Petroleum by $\gamma$ radiation Induced Reaction. <i>Energy &amp; Fuels</i> , <b>2006</b> , 20, 142-147	4.1	12
4	Degradation of dodecanethiol in dodecane by $\gamma$ radiation and improvement by sensitization. <i>Fuel Processing Technology</i> , <b>2004</b> , 85, 1393-1402	7.2	3
3	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
2	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
1	Heterogeneous Reaction Mechanisms and Functional Materials for Elemental Mercury Removal from Industrial Flue Gas. <i>ACS ES&amp;T Engineering</i> ,		3