

# Shijian Yang

## List of Publications by Year in descending order

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papers

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61984

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87  
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87  
docs citations

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times ranked

3073  
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. Applied Catalysis B: Environmental, 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. Applied Catalysis B: Environmental, 2013, 136-137, 19-28.	20.2	312
3	Mechanism of N <sub>2</sub> O Formation during the Low-Temperature Selective Catalytic Reduction of NO with NH <sub>3</sub> over Mn <sup>2+</sup> Fe Spinel. Environmental Science & Technology, 2014, 48, 10354-10362.	10.0	225
4	Capture of gaseous elemental mercury from flue gas using a magnetic and sulfur poisoning resistant sorbent Mn <sup>3+</sup> -Fe <sub>2</sub> O <sub>3</sub> at lower temperatures. Journal of Hazardous Materials, 2011, 186, 508-515.	12.4	206
5	Catalytic Oxidation of Elemental Mercury over the Modified Catalyst Mn <sup>2+</sup> -Al <sub>2</sub> O <sub>3</sub> at Lower Temperatures. Environmental Science & Technology, 2010, 44, 426-431.	10.0	205
6	MnO supported on Fe <sup>2+</sup> Ti spinel: A novel Mn based low temperature SCR catalyst with a high N <sub>2</sub> selectivity. Applied Catalysis B: Environmental, 2016, 181, 570-580.	20.2	199
7	Fe <sup>2+</sup> Ti spinel for the selective catalytic reduction of NO with NH <sub>3</sub> : Mechanism and structure-activity relationship. Applied Catalysis B: Environmental, 2012, 117-118, 73-80.	20.2	178
8	Dispersion of tungsten oxide on SCR performance of V <sub>2</sub> O <sub>5</sub> WO <sub>3</sub> /TiO <sub>2</sub> : Acidity, surface species and catalytic activity. Chemical Engineering Journal, 2013, 225, 520-527.	12.7	177
9	Decolorization of methylene blue by heterogeneous Fenton reaction using Fe <sub>3-x</sub> Ti <sub>x</sub> O <sub>4</sub> (0 ≤ x ≤ 0.78) at neutral pH values. Applied Catalysis B: Environmental, 2009, 89, 527-535.	20.2	170
10	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. Applied Catalysis B: Environmental, 2011, 101, 698-708.	20.2	167
11	Gaseous Elemental Mercury Capture from Flue Gas Using Magnetic Nanosized (Fe <sub>3-x</sub> Mn <sub>x</sub> ) <sub>1-<i>z</i></sub> O <sub>4</sub> . Environmental Science & Technology, 2011, 45, 1540-1546.	10.0	161
12	Recyclable Naturally Derived Magnetic Pyrrhotite for Elemental Mercury Recovery from Flue Gas. Environmental Science & Technology, 2016, 50, 10562-10569.	10.0	140
13	Nanosized Cation-Deficient Fe <sup>2+</sup> Ti Spinel: A Novel Magnetic Sorbent for Elemental Mercury Capture from Flue Gas. ACS Applied Materials & Interfaces, 2011, 3, 209-217.	8.0	137
14	Quantification of crop residue burning in the field and its influence on ambient air quality in Suqian, China. Atmospheric Environment, 2008, 42, 1961-1969.	4.1	135
15	Significance of RuO <sub>2</sub> Modified SCR Catalyst for Elemental Mercury Oxidation in Coal-fired Flue Gas. Environmental Science & Technology, 2011, 45, 5725-5730.	10.0	126
16	The role of the Cu dopant on a Mn <sub>3</sub> O <sub>4</sub> spinel SCR catalyst: Improvement of low-temperature activity and sulfur resistance. Chemical Engineering Journal, 2020, 387, 124090.	12.7	124
17	Improvement of the Activity of <sup>3</sup> 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. Industrial & Engineering Chemistry Research, 2013, 52, 5601-5610.	3.7	118
18	Elemental Mercury Capture from Flue Gas by Magnetic Mn <sup>2+</sup> Fe Spinel: Effect of Chemical Heterogeneity. Industrial & Engineering Chemistry Research, 2011, 50, 9650-9656.	3.7	111

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19	H <sub>2</sub> S-Modified Fe <sup>2+</sup> -Ti Spinel: A Recyclable Magnetic Sorbent for Recovering Gaseous Elemental Mercury from Flue Gas as a Co-Benefit of Wet Electrostatic Precipitators. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3426-3434.	10.0	109
20	Comparison on the Performance of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> and $\beta$ -Fe <sub>2</sub> O <sub>3</sub> for Selective Catalytic Reduction of Nitrogen Oxides with Ammonia. <i>Catalysis Letters</i> , 2013, 143, 697-704.	2.6	101
21	Novel regenerable sorbent based on Zr <sup>2+</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
22	N <sub>2</sub> Selectivity of NO Reduction by NH <sub>3</sub> over MnO <sub>x</sub> /CeO <sub>2</sub> : Mechanism and Key Factors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21500-21508.	3.1	92
23	Outstanding Performance of Recyclable Amorphous MoS <sub>3</sub> Supported on TiO <sub>2</sub> for Capturing High Concentrations of Gaseous Elemental Mercury: Mechanism, Kinetics, and Application. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4480-4489.	10.0	92
24	Photo-assisted separation of noble-metal-free oxidation and reduction cocatalysts for graphitic carbon nitride nanosheets with efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119456.	20.2	91
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	The mechanism of the effect of H <sub>2</sub> O on the low temperature selective catalytic reduction of NO with NH <sub>3</sub> over Mn <sup>2+</sup> -Fe spinel. <i>Catalysis Science and Technology</i> , 2015, 5, 2132-2140.	4.1	84
27	Outstanding Resistance of H <sub>2</sub> S-Modified Cu/TiO <sub>2</sub> to SO <sub>2</sub> for Capturing Gaseous Hg <sup>0</sup> from Nonferrous Metal Smelting Flue Gas: Performance and Reaction Mechanism. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10003-10010.	10.0	84
28	Global Kinetic Study of NO Reduction by NH <sub>3</sub> over V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> : Relationship between the SCR Performance and the Key Factors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 11011-11023.	3.7	82
29	Promotional Effects of Ti on a CeO <sub>2</sub> -MoO <sub>3</sub> Catalyst for the Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16951-16958.	8.0	78
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	Effect of H <sub>2</sub> O and SO <sub>2</sub> on the Selective Catalytic Reduction of NO with NH <sub>3</sub> Over Ce/TiO <sub>2</sub> Catalyst: Mechanism and Kinetic Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1066-1076.	3.1	70
32	Novel Effect of H <sub>2</sub> O on the Low Temperature Selective Catalytic Reduction of NO with NH <sub>3</sub> over MnO <sub>x</sub> /CeO <sub>2</sub> : Mechanism and Kinetic Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4180-4187.	3.1	68
33	The centralized control of elemental mercury emission from the flue gas by a magnetic regenerable Fe <sup>2+</sup> -Ti <sup>4+</sup> -Mn spinel. <i>Journal of Hazardous Materials</i> , 2015, 299, 740-746.	12.4	63
34	A highly efficient CeWO <sub>x</sub> catalyst for the selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Catalysis Science and Technology</i> , 2016, 6, 1195-1200.	4.1	63
35	Degradation of Methylene Blue by Heterogeneous Fenton Reaction Using Titanomagnetite at Neutral pH Values: Process and Affecting Factors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 9915-9921.	3.7	57
36	A novel multi-functional magnetic Fe <sup>2+</sup> -Ti <sup>4+</sup> -V spinel catalyst for elemental mercury capture and callback from flue gas. <i>Chemical Communications</i> , 2010, 46, 8377.	4.1	56

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37	Adjustment of operation temperature window of Mn-Ce oxide catalyst for the selective catalytic reduction of NO with NH <sub>3</sub> . Journal of Hazardous Materials, 2021, 405, 124223.	12.4	55
38	Remarkable improvement of Ti incorporation on HgO capture from smelting flue gas by sulfurated $\beta$ -Fe <sub>2</sub> O <sub>3</sub> : Performance and mechanism. Journal of Hazardous Materials, 2020, 381, 120967.	12.4	54
39	A novel magnetic Fe <sup>2+</sup> -Ti <sup>4+</sup> -V spinel catalyst for the selective catalytic reduction of NO with NH <sub>3</sub> in a broad temperature range. Catalysis Science and Technology, 2012, 2, 915.	4.1	53
40	The co-benefit of elemental mercury oxidation and slip ammonia abatement with SCR-Plus catalysts. Fuel, 2014, 133, 263-269.	6.4	51
41	The simultaneous centralized control of elemental mercury emission and deep desulfurization from the flue gas using magnetic Mn <sup>2+</sup> -Fe spinel as a co-benefit of the wet electrostatic precipitator. Fuel Processing Technology, 2016, 142, 345-351.	7.2	50
42	CeO <sub>2</sub> grafted with different heteropoly acids for selective catalytic reduction of NO with NH <sub>3</sub> . Journal of Hazardous Materials, 2020, 382, 121032.	12.4	47
43	Elemental Mercury Oxidation over Fe <sup>2+</sup> -Ti <sup>4+</sup> -Mn Spinel: Performance, Mechanism, and Reaction Kinetics. Environmental Science & Technology, 2017, 51, 531-539.	10.0	46
44	Synergistic effect and mechanism of catalytic degradation toward antibiotic contaminants by amorphous goethite nanoparticles decorated graphitic carbon nitride. Chemical Engineering Journal, 2020, 390, 124551.	12.7	45
45	Alkali Metal Deactivation on the Low Temperature Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> over MnO <sub>2</sub> -CeO <sub>2</sub> : A Mechanism Study. Journal of Physical Chemistry C, 2016, 120, 15299-15309.	3.1	44
46	H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> Grafted on CeO <sub>2</sub> : A High-Performance Catalyst for the Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> . Industrial & Engineering Chemistry Research, 2018, 57, 856-866.	3.7	44
47	Significant Enhancement of Gaseous Elemental Mercury Recovery from Coal-Fired Flue Gas by Phosphomolybdic Acid Grafting on Sulfurated $\beta$ -Fe <sub>2</sub> O <sub>3</sub> : Performance and Mechanism. Environmental Science & Technology, 2020, 54, 1992-2001.	10.0	43
48	Novel Synergistic Effect of Fe and Mo in FeMoS <sub>x</sub> /TiO <sub>2</sub> for Recovering High Concentrations of Gaseous Hg <sup>0</sup> from Smelting Flue Gas: Reaction Mechanism and Kinetics. Environmental Science & Technology, 2020, 54, 586-594.	10.0	42
49	Dual Effect of Sulfation on the Selective Catalytic Reduction of NO with NH <sub>3</sub> over MnO <sub>x</sub> /TiO <sub>2</sub> : Key Factor of NH <sub>3</sub> Distribution. Industrial & Engineering Chemistry Research, 2014, 53, 5810-5819.	3.7	36
50	Effect of CeO <sub>2</sub> for a high-efficiency CeO <sub>2</sub> /WO <sub>3</sub> -TiO <sub>2</sub> catalyst on N <sub>2</sub> O formation in NH <sub>3</sub> -SCR: a kinetic study. Catalysis Science and Technology, 2016, 6, 3149-3155.	4.1	36
51	Balance between Reducibility and N <sub>2</sub> O Adsorption Capacity for the N <sub>2</sub> O Decomposition: Cu <sub>x</sub> Co <sub>y</sub> Catalysts as an Example. Environmental Science & Technology, 2019, 53, 10379-10386.	10.0	36
52	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. Environmental Science & Technology, 2020, 54, 7687-7696.	10.0	35
53	Novel Synergetic Effect of Fe and W in FeWS <sub>x</sub> /TiO <sub>2</sub> on Capturing High Concentrations of Gaseous Hg <sup>0</sup> from Smelting Flue Gas: Adsorption Kinetics and Structure-Activity Relationship. Industrial & Engineering Chemistry Research, 2020, 59, 2745-2753.	3.7	34
54	Faster electron injection and higher interface reactivity in g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> nanohybrid for efficient photo-Fenton-like activity toward antibiotics degradation. Environmental Research, 2021, 195, 110842.	7.5	34

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55	Novel approach for a cerium-based highly-efficient catalyst with excellent NH <sub>3</sub> -SCR performance. <i>Catalysis Science and Technology</i> , 2014, 4, 3611-3614.	4.1	33
56	Effect of Sulfation on the Selective Catalytic Reduction of NO with NH <sub>3</sub> Over $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> . <i>Catalysis Letters</i> , 2014, 144, 578-584.	2.6	31
57	Novel Promotion of Sulfuration for Hg <sup>0</sup> Conversion over V <sub>2</sub> O <sub>5</sub> –MoO <sub>3</sub> /TiO <sub>2</sub> with HCl at Low Temperatures: Hg <sup>0</sup> Adsorption, Hg <sup>0</sup> Oxidation, and Hg <sup>2+</sup> Adsorption. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7072-7081.	10.0	31
58	H <sub>2</sub> S-Modified Natural Ilmenite: A Recyclable Magnetic Sorbent for Recovering Gaseous Elemental Mercury from Flue Gas. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 10060-10068.	3.7	29
59	Controllable fabrication of a red phosphorus modified g-C <sub>3</sub> N <sub>4</sub> photocatalyst with strong interfacial binding for the efficient removal of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151885.	5.5	29
60	Recovering gaseous Hg <sup>0</sup> using sulfureted phosphotungstic acid modified $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> from power plants burning Hg-rich coal for centralized control. <i>Journal of Hazardous Materials</i> , 2021, 407, 124381.	12.4	29
61	<i>In Situ</i> Emergency Disposal of Liquid Mercury Leakage by Fe-Containing Sphalerite: Performance and Reaction Mechanism. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 153-160.	3.7	28
62	Outstanding Performance of Magnetically Separable Sulfureted MoO <sub>3</sub> /Fe–Ti Spinel for Gaseous Hg <sup>0</sup> Recovery from Smelting Flue Gas: Mechanism and Adsorption Kinetics. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7659-7668.	10.0	28
63	Influence mechanism of the compositions in coal-fired flue gas on Hg <sup>0</sup> oxidation over commercial SCR catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 75, 130-137.	5.8	27
64	Synthesis and characterization of nano-sized Mn–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
65	Mechanism of Elemental Mercury Oxidation over Copper-Based Oxide Catalysts: Kinetics and Transient Reaction Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 61-70.	3.7	24
66	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
67	W-Modified Mn–Ti Mixed Oxide Catalyst for the Selective Catalytic Reduction of NO with NH <sub>3</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9112-9119.	3.7	23
68	Cost-efficient Graphitic Carbon Nitride as an Effective Photocatalyst for Antibiotic Degradation: An Insight into the Effects of Different Precursors and Coexisting Ions, and Photocatalytic Mechanism. <i>Chemistry - an Asian Journal</i> , 2019, 14, 162-169.	3.3	23
69	Promotion mechanism of CeO <sub>2</sub> addition on the low temperature SCR reaction over MnO <sub>x</sub> /TiO <sub>2</sub> : a new insight from the kinetic study. <i>RSC Advances</i> , 2015, 5, 27785-27793.	3.6	22
70	Promotion of H <sub>2</sub> PO <sub>4</sub> Grafting on NO <sub>x</sub> Abatement over $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> : Performance and Reaction Mechanism. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 13661-13670.	3.7	22
71	The effect of Ce on a high-efficiency CeO <sub>2</sub> /WO <sub>3</sub> –TiO <sub>2</sub> catalyst for the selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>RSC Advances</i> , 2016, 6, 64803-64810.	3.6	21
72	Role of WO <sub>3</sub> in NO Reduction with NH <sub>3</sub> over V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> : A New Insight from the Kinetic Study. <i>Catalysis Letters</i> , 2016, 146, 2242-2251.	2.6	20

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73	Remarkable differences between copper-based sulfides and iron-based sulfides for the adsorption of high concentrations of gaseous elemental mercury: Mechanisms, kinetics, and significance. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 581-590.	9.4	18
74	Why the Low-Temperature Selective Catalytic Reduction Performance of Cr/TiO <sub>2</sub> Is Much Less than That of Mn/TiO <sub>2</sub> : A Mechanism Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23511-23522.	3.1	16
75	The promotion effect of ceria on high vanadia loading NH <sub>3</sub> -SCR catalysts. <i>Catalysis Communications</i> , 2019, 121, 84-88.	3.3	16
76	Outstanding performance of ZnS/TiO <sub>2</sub> for the urgent disposal of liquid mercury leakage indoors: Novel support effect, reaction mechanism and kinetics. <i>Journal of Hazardous Materials</i> , 2021, 403, 123867.	12.4	16
77	Resource utilization of natural pyrite (FeS <sub>2</sub> ) as the tailings after flotation of natural sphalerite (ZnS) for reclaiming high concentrations of gaseous Hg <sub>0</sub> from Zn smelting flue gas. <i>Chemical Engineering Journal</i> , 2022, 427, 131644.	12.7	15
78	Novel Counteraction Effect of H <sub>2</sub> O and SO <sub>2</sub> toward HCl on the Chemical Adsorption of Gaseous Hg <sub>0</sub> onto Sulfureted HPW/β-Fe <sub>2</sub> O <sub>3</sub> at Low Temperatures: Mechanism and Its Application in Hg <sub>0</sub> Recovery from Coal-Fired Flue Gas. <i>Environmental Science &amp; Technology</i> , 2022, 56, 642-651.	10.0	14
79	Safe disposal of deactivated commercial selective catalytic reduction catalyst (V <sub>2</sub> O <sub>5</sub> -MoO <sub>3</sub> /TiO <sub>2</sub> ) as a low-cost and regenerable sorbent to recover gaseous elemental mercury in smelting flue gas. <i>Journal of Hazardous Materials</i> , 2021, 406, 124744.	12.4	13
80	Selective removal of Hg <sup>2+</sup> from acidic wastewaters using sulfureted Fe <sub>2</sub> TiO <sub>5</sub> : Underlying mechanism and its application as a regenerable sorbent for recovering Hg from waste acids of smelters. <i>Water Research</i> , 2022, 221, 118796.	11.3	11
81	A novel dual layer SCR catalyst with a broad temperature window for the control of NO emission from diesel bus. <i>Catalysis Communications</i> , 2015, 65, 108-112.	3.3	10
82	Outstanding performance of CuO/Fe-Ti spinel for Hg <sub>0</sub> oxidation as a co-benefit of NO abatement: significant promotion of Hg <sub>0</sub> oxidation by CuO loading. <i>Catalysis Science and Technology</i> , 2021, 11, 2316-2326.	4.1	10
83	Different Design Strategies for Metal Sulfide Sorbents to Capture Low Concentrations of Gaseous Hg <sub>0</sub> in Coal-Fired Flue Gas and High Concentrations of Gaseous Hg <sub>0</sub> in Smelting Flue Gas. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7094-7101.	10.0	10
84	Outstanding performance of sulfurated titanomghemite (Fe <sub>2</sub> TiO <sub>5</sub> ) for hexavalent chromium removal: Sulfuration promotion mechanism and its application in chromium resource recovery. <i>Chemosphere</i> , 2022, 287, 132360.	8.2	10
85	Simultaneous Adsorption of Gaseous Hg <sub>0</sub> and Hg(II) by Regenerable Monolithic FeMoS <sub>x</sub> /TiO <sub>2</sub> : Mechanism and its Application in the Centralized Control of Hg Pollution in Coal-Fired Flue Gas. <i>Environmental Science &amp; Technology</i> , 2022, 56, 10977-10986.	10.0	9
86	Comparison of pyrite-phase transition metal sulfides for capturing leaked high concentrations of gaseous elemental mercury in indoor air: Mechanism and adsorption/desorption kinetics. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 431-442.	9.4	7
87	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> , 2013, 7, 464-473.	6.0	3