

# Xiang Gao

## List of Publications by Citations

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248  
papers

6,773  
citations

41  
h-index

69  
g-index

261  
ext. papers

8,348  
ext. citations

6.3  
avg, IF

6.21  
L-index

#	Paper	IF	Citations
248	The activity and characterization of CeO <sub>2</sub> -TiO <sub>2</sub> catalysts prepared by the sol-gel method for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Journal of Hazardous Materials</i> , <b>2010</b> , 174, 734-9	12.8	370
247	Preparation and characterization of CeO <sub>2</sub> /TiO <sub>2</sub> catalysts for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Catalysis Communications</i> , <b>2010</b> , 11, 465-469	3.2	217
246	Plasma-catalytic removal of formaldehyde over Cu <sub>2</sub> O catalysts in a dielectric barrier discharge reactor. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 170-171, 293-300	21.8	206
245	Relationship between structure and performance of a novel cerium-niobium binary oxide catalyst for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 142-143, 290-297	21.8	200
244	Recent Advances in Catalysts for Methane Combustion. <i>Catalysis Surveys From Asia</i> , <b>2015</b> , 19, 140-171	2.8	162
243	Hg(0) Capture over CoMoS <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> with MoS <sub>2</sub> Nanosheets at Low Temperatures. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1056-64	10.3	124
242	A Ce <sub>0.5</sub> Ti <sub>0.5</sub> oxide catalyst for the selective catalytic reduction of NO with NH <sub>3</sub> . <i>Catalysis Communications</i> , <b>2010</b> , 12, 255-258	3.2	123
241	CeO <sub>2</sub> -TiO <sub>2</sub> sorbents for the removal of elemental mercury from syngas. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 10056-62	10.3	108
240	Non-Thermal Plasmas for VOCs Abatement. <i>Plasma Chemistry and Plasma Processing</i> , <b>2014</b> , 34, 1033-1065	5.6	102
239	Atmospheric emission characteristics and control policies of five precedent-controlled toxic heavy metals from anthropogenic sources in China. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 1206-14	10.3	97
238	Tuning of catalytic sites in Pt/TiO <sub>2</sub> catalysts for the chemoselective hydrogenation of 3-nitrostyrene. <i>Nature Catalysis</i> , <b>2019</b> , 2, 873-881	36.5	91
237	Post-plasma catalytic removal of methanol over Mn <sub>2</sub> O <sub>3</sub> catalysts in an atmospheric dielectric barrier discharge. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 183, 124-132	21.8	90
236	Granular bed filter: A promising technology for hot gas clean-up. <i>Powder Technology</i> , <b>2013</b> , 244, 93-99	5.2	90
235	Investigation of the effect of Cu addition on the SO <sub>2</sub> -resistance of a CeTi oxide catalyst for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Fuel</i> , <b>2012</b> , 92, 49-55	7.1	89
234	Gas-liquid absorption reaction between (NH <sub>4</sub> ) <sub>2</sub> SO <sub>3</sub> solution and SO <sub>2</sub> for ammonia-based wet flue gas desulfurization. <i>Applied Energy</i> , <b>2010</b> , 87, 2647-2651	10.7	87
233	The co-effect of Sb and Nb on the SCR performance of the V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalyst. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 368, 406-12	9.3	85
232	Structural defects in 2D MoS <sub>2</sub> nanosheets and their roles in the adsorption of airborne elemental mercury. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 366, 240-249	12.8	85

231	Effects of PbCl <sub>2</sub> on selective catalytic reduction of NO with NH <sub>3</sub> over vanadia-based catalysts. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 274, 270-8	12.8	84
230	Improvement in activity and alkali resistance of a novel V-Ce(SO <sub>4</sub> ) <sub>2</sub> /Ti catalyst for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 206, 449-460	21.8	82
229	Enhanced performance for plasma-catalytic oxidation of ethyl acetate over La <sub>1-x</sub> Ce <sub>x</sub> CoO <sub>3</sub> +□ catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 213, 97-105	21.8	81
228	Physicochemical properties of metal-doped activated carbons and relationship with their performance in the removal of SO <sub>2</sub> and NO. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 188, 58-66	12.8	79
227	A model for performance optimization of wet flue gas desulfurization systems of power plants. <i>Fuel Processing Technology</i> , <b>2008</b> , 89, 1025-1032	7.2	79
226	New insights into the various decomposition and reactivity behaviors of NH <sub>4</sub> HSO <sub>4</sub> with NO on V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalyst surfaces. <i>Chemical Engineering Journal</i> , <b>2016</b> , 283, 846-854	14.7	76
225	Formation, transformation, measurement, and control of SO <sub>3</sub> in coal-fired power plants. <i>Fuel</i> , <b>2019</b> , 241, 327-346	7.1	69
224	Quantitative assessment of industrial VOC emissions in China: Historical trend, spatial distribution, uncertainties, and projection. <i>Atmospheric Environment</i> , <b>2017</b> , 150, 116-125	5.3	67
223	CO <sub>2</sub> mineralization and utilization by alkaline solid wastes for potential carbon reduction. <i>Nature Sustainability</i> , <b>2020</b> , 3, 399-405	22.1	66
222	Investigation of hybrid plasma-catalytic removal of acetone over CuO/Al <sub>2</sub> O <sub>3</sub> catalysts using response surface method. <i>Chemosphere</i> , <b>2016</b> , 155, 9-17	8.4	65
221	Deactivation mechanism of arsenic and resistance effect of SO <sub>2</sub> on commercial catalysts for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Chemical Engineering Journal</i> , <b>2016</b> , 293, 118-128	14.7	65
220	Catalyst screening for acetone removal in a single-stage plasma-catalysis system. <i>Catalysis Today</i> , <b>2015</b> , 256, 108-114	5.3	64
219	Comprehensive understanding of SO <sub>3</sub> effects on synergies among air pollution control devices in ultra-low emission power plants burning high-sulfur coal. <i>Journal of Cleaner Production</i> , <b>2019</b> , 239, 1180-1186	10.3	59
218	Effect of H <sub>2</sub> S/HCl on the removal of elemental mercury in syngas over CeO <sub>2</sub> /TiO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2014</b> , 241, 131-137	14.7	57
217	Mechanistic investigation of enhanced reactivity of NH <sub>4</sub> HSO <sub>4</sub> and NO on Nb- and Sb-doped VW/Ti SCR catalysts. <i>Applied Catalysis A: General</i> , <b>2018</b> , 549, 310-319	5.1	53
216	Graphene-like MoS <sub>2</sub> containing adsorbents for Hg <sup>0</sup> capture at coal-fired power plants. <i>Applied Energy</i> , <b>2017</b> , 207, 254-264	10.7	52
215	Challenge of SO <sub>3</sub> removal by wet electrostatic precipitator under simulated flue gas with high SO <sub>3</sub> concentration. <i>Fuel</i> , <b>2018</b> , 217, 597-604	7.1	52
214	Simultaneous oxidation of NO, SO <sub>2</sub> and Hg <sup>0</sup> from flue gas by pulsed corona discharge. <i>Journal of Environmental Sciences</i> , <b>2009</b> , 21, 328-32	6.4	52

213	Adsorption and reduction of NO <sub>2</sub> over activated carbon at low temperature. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 139-146	7.2	52
212	Experimental study of acetone removal by packed-bed dielectric barrier discharge reactor. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 2761-2768	6.3	50
211	The Influence of Alkali Metals on the Ce-Ti Mixed Oxide Catalyst for the Selective Catalytic Reduction of NO <sub>x</sub> . <i>ChemCatChem</i> , <b>2012</b> , 4, 2075-2081	5.2	50
210	Nitrogen oxide absorption and nitrite/nitrate formation in limestone slurry for WFGD system. <i>Applied Energy</i> , <b>2014</b> , 129, 187-194	10.7	43
209	The effect of ozone addition on combustion: Kinetics and dynamics. <i>Progress in Energy and Combustion Science</i> , <b>2019</b> , 73, 1-25	33.6	43
208	Theoretical and experimental study on the deactivation of V <sub>2</sub> O <sub>5</sub> based catalyst by lead for selective catalytic reduction of nitric oxides. <i>Catalysis Today</i> , <b>2011</b> , 175, 625-630	5.3	41
207	Low temperature catalytic oxidation of propane over cobalt-cerium spinel oxides catalysts. <i>Applied Surface Science</i> , <b>2019</b> , 479, 1132-1140	6.7	41
206	Structure and crystal phase transition effect of Sn doping on anatase TiO for dichloromethane decomposition. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 371, 156-164	12.8	39
205	An experimental study on the effects of temperature and pressure on negative corona discharge in high-temperature ESPs. <i>Applied Energy</i> , <b>2016</b> , 164, 28-35	10.7	39
204	Supported metal sulfates on Ce/TiO <sub>x</sub> as catalysts for NH <sub>3</sub> SCR of NO: High resistances to SO <sub>2</sub> and potassium. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 36, 271-278	6.3	38
203	The Reaction of Poisonous Alkali Oxides with Vanadia SCR Catalyst and the Afterward Influence: A DFT and Experimental Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1905-1912	3.8	38
202	Life cycle assessment on biogas production from straw and its sensitivity analysis. <i>Bioresource Technology</i> , <b>2016</b> , 201, 208-14	11	37
201	A combined wet electrostatic precipitator for efficiently eliminating fine particle penetration. <i>Fuel Processing Technology</i> , <b>2018</b> , 180, 122-129	7.2	37
200	Catalyst Design Based on DFT Calculations: Metal Oxide Catalysts for Gas Phase NO Reduction. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 13617-13622	3.8	37
199	Experimental and theoretical studies on the influence of water vapor on the performance of a Ce-Cu-Ti oxide SCR catalyst. <i>Applied Surface Science</i> , <b>2013</b> , 270, 370-376	6.7	37
198	Numerical simulation on the fine particle charging and transport behaviors in a wire-plate electrostatic precipitator. <i>Advanced Powder Technology</i> , <b>2016</b> , 27, 1905-1911	4.6	37
197	Particle migration and collection in a high-temperature electrostatic precipitator. <i>Separation and Purification Technology</i> , <b>2015</b> , 143, 184-191	8.3	36
196	Relationship between the molecular structure of V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalysts and the reactivity of SO <sub>2</sub> oxidation. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 1187-1194	5.5	36

195	Plasma-catalytic removal of a low concentration of acetone in humid conditions. <i>RSC Advances</i> , <b>2014</b> , 4, 37796-37805	3.7	36
194	Kinetics of NO <sub>x</sub> Absorption into (NH <sub>4</sub> ) <sub>2</sub> SO <sub>3</sub> Solution in an Ammonia-Based Wet Flue Gas Desulfurization Process. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 5876-5882	4.1	36
193	Removal and Emission Characteristics of Condensable Particulate Matter in an Ultralow Emission Power Plant. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 10586-10594	4.1	36
192	Microstructure and Mechanical Properties of High-Toughness Fiber-Reinforced Cementitious Composites after Exposure to Elevated Temperatures. <i>Journal of Materials in Civil Engineering</i> , <b>2016</b> , 28, 04016132	3	35
191	Identification of the reaction pathway and reactive species for the selective catalytic reduction of NO with NH <sub>3</sub> over cerium/bismuth oxide catalysts. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 2136-2142	5.5	35
190	Effect of electrode configuration on particle collection in a high-temperature electrostatic precipitator. <i>Separation and Purification Technology</i> , <b>2016</b> , 166, 157-163	8.3	34
189	Atmospheric emission inventory of SO <sub>3</sub> from coal-fired power plants in China in the period 2009-2014. <i>Atmospheric Environment</i> , <b>2019</b> , 197, 14-21	5.3	34
188	Partitioning of Hazardous Trace Elements among Air Pollution Control Devices in Ultra-Low-Emission Coal-Fired Power Plants. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 6334-6344	4.1	33
187	Electric agglomeration modes of coal-fired fly-ash particles with water droplet humidification. <i>Fuel</i> , <b>2017</b> , 200, 134-145	7.1	32
186	Numerical simulation of corona discharge and particle transport behavior with the particle space charge effect. <i>Journal of Aerosol Science</i> , <b>2018</b> , 118, 22-33	4.3	32
185	Highly efficient removal of sulfuric acid aerosol by a combined wet electrostatic precipitator. <i>RSC Advances</i> , <b>2018</b> , 8, 59-66	3.7	32
184	Investigation of the promotion effect of WO <sub>3</sub> on the decomposition and reactivity of NH <sub>4</sub> HSO <sub>4</sub> with NO on V <sub>2</sub> O <sub>5</sub> /WO <sub>3</sub> /TiO <sub>2</sub> SCR catalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 55584-55592	3.7	31
183	An experimental and modelling study of the reactivity of adsorbed NH <sub>3</sub> in the low temperature NH <sub>3</sub> -SCR reduction half-cycle over a Cu-CHA catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 279, 119397	21.8	31
182	Synthesis, characterization and catalytic performances of Cu- and Mn-containing ordered mesoporous carbons for the selective catalytic reduction of NO with NH <sub>3</sub> . <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 1267-1279	5.5	30
181	Assessment of winter air pollution episodes using long-range transport modeling in Hangzhou, China, during World Internet Conference, 2015. <i>Environmental Pollution</i> , <b>2018</b> , 236, 550-561	9.3	30
180	Numerical simulation of temperature effect on particles behavior via electrostatic precipitators. <i>Applied Thermal Engineering</i> , <b>2015</b> , 88, 127-139	5.8	29
179	Removal of NO <sub>x</sub> with radical injection caused by corona discharge. <i>Fuel</i> , <b>2004</b> , 83, 1349-1355	7.1	29
178	Controllable synthesis of hierarchical MnO/TiO composite nanofibers for complete oxidation of low-concentration acetone. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 337, 105-114	12.8	28

177	Characteristics of negative DC corona discharge in a wire-plate configuration at high temperatures. <i>Separation and Purification Technology</i> , <b>2015</b> , 139, 5-13	8.3	28
176	Experimental investigation on charging characteristics and penetration efficiency of PM <sub>2.5</sub> emitted from coal combustion enhanced by positive corona pulsed ESP. <i>Journal of Electrostatics</i> , <b>2009</b> , 67, 799-808	11.7	28
175	Hg <sup>0</sup> -temperature-programmed surface reaction and its application on the investigation of metal oxides for Hg <sup>0</sup> capture. <i>Fuel</i> , <b>2016</b> , 181, 1089-1094	7.1	28
174	Numerical simulation of selective catalytic reduction of NO and SO <sub>2</sub> oxidation in monolith catalyst. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 874-884	14.7	28
173	La <sub>0.8</sub> M <sub>0.2</sub> MnO <sub>3</sub> (M = Ba, Ca, Ce, Mg and Sr) perovskite catalysts for plasma-catalytic oxidation of ethyl acetate. <i>Catalysis Communications</i> , <b>2017</b> , 92, 35-39	3.2	27
172	Chemical characteristics and sources of PM during the 2016 summer in Hangzhou. <i>Environmental Pollution</i> , <b>2018</b> , 232, 42-54	9.3	27
171	Fine particle migration and collection in a wet electrostatic precipitator. <i>Journal of the Air and Waste Management Association</i> , <b>2017</b> , 67, 498-506	2.4	27
170	Promotional effect of doping Cu into cerium-titanium binary oxides catalyst for deep oxidation of gaseous dichloromethane. <i>Chemosphere</i> , <b>2019</b> , 214, 553-562	8.4	27
169	Low temperature selective catalytic reduction of NO and NO <sub>2</sub> with NH <sub>3</sub> over activated carbon-supported vanadium oxide catalyst. <i>Catalysis Today</i> , <b>2011</b> , 175, 164-170	5.3	26
168	Designing SO <sub>2</sub> -resistant cerium-based catalyst by modifying with Fe <sub>2</sub> O <sub>3</sub> for the selective catalytic reduction of NO with NH <sub>3</sub> . <i>Molecular Catalysis</i> , <b>2019</b> , 462, 10-18	3.3	26
167	Bimetallic cerium-copper nanoparticles embedded in ordered mesoporous carbons as effective catalysts for the selective catalytic reduction of NO with NH <sub>3</sub> . <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 456, 66-75	9.3	25
166	Experimental investigation on the characteristics of ash layers in a high-temperature wire-cylinder electrostatic precipitator. <i>Separation and Purification Technology</i> , <b>2016</b> , 159, 135-146	8.3	25
165	Removal of NO <sub>x</sub> from wet flue gas by corona discharge. <i>Fuel</i> , <b>2004</b> , 83, 1251-1255	7.1	25
164	MoO <sub>3</sub> -adjusted MnO <sub>2</sub> nanosheet for catalytic oxidation of Hg <sup>0</sup> to Hg <sup>2+</sup> . <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 263, 117829	21.8	25
163	Integrated Dynamic and Steady State Method and Its Application on the Screening of MoS <sub>2</sub> Nanosheet-Containing Adsorbents for Hg <sup>0</sup> Capture. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 5338-5344	4.1	24
162	Adsorption of NO on ordered mesoporous carbon and its improvement by cerium. <i>RSC Advances</i> , <b>2014</b> , 4, 16281	3.7	24
161	Naphthalene decomposition in a DC corona radical shower discharge. <i>Journal of Zhejiang University: Science A</i> , <b>2011</b> , 12, 71-77	2.1	24
160	Study on Catalytic Soot Oxidation over Spinel Type ACo <sub>2</sub> O <sub>4</sub> (A = Co, Ni, Cu, Zn) Catalysts. <i>Aerosol and Air Quality Research</i> , <b>2017</b> , 17, 2317-2327	4.6	24

159	Plasma-catalytic decomposition of ethyl acetate over LaMO <sub>3</sub> (M = Mn, Fe, and Co) perovskite catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 70, 447-452	6.3	24
158	New insight into alkali resistance and low temperature activation on vanadia-titania catalysts for selective catalytic reduction of NO. <i>Applied Surface Science</i> , <b>2019</b> , 466, 99-109	6.7	24
157	On the Redox Mechanism of Low-Temperature NH <sub>3</sub> -SCR over Cu-CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7197-7204	16.4	24
156	Controllable synthesis of novel hierarchical V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> nanofibers with improved acetone oxidation performance. <i>RSC Advances</i> , <b>2015</b> , 5, 30416-30424	3.7	23
155	An experimental investigation of electrostatic precipitation in a wire-cylinder configuration at high temperatures. <i>Powder Technology</i> , <b>2015</b> , 269, 166-177	5.2	23
154	Characteristics of DC discharge in a wire-cylinder configuration at high ambient temperatures. <i>Journal of Electrostatics</i> , <b>2014</b> , 72, 13-21	1.7	23
153	Smog chamber study of the role of NH <sub>3</sub> in new particle formation from photo-oxidation of aromatic hydrocarbons. <i>Science of the Total Environment</i> , <b>2018</b> , 619-620, 927-937	10.2	23
152	Experimental Study on Electrostatic Precipitation of Low-Resistivity High-Carbon Fly Ash at High Temperature. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 6266-6273	4.1	22
151	Meteorological and chemical impacts on PM during a haze episode in a heavily polluted basin city of eastern China. <i>Environmental Pollution</i> , <b>2019</b> , 250, 520-529	9.3	22
150	Insights into the role of ionic wind in honeycomb electrostatic precipitators. <i>Journal of Aerosol Science</i> , <b>2019</b> , 133, 83-95	4.3	22
149	Cost estimate of the multi-pollutant abatement in coal-fired power sector in China. <i>Energy</i> , <b>2018</b> , 161, 523-535	7.9	22
148	Microwave-induced activation of additional active edge sites on the MoS <sub>2</sub> surface for enhanced Hg <sub>0</sub> capture. <i>Applied Surface Science</i> , <b>2017</b> , 420, 439-445	6.7	21
147	Preparation of Quaternized Bamboo Cellulose and Its Implication in Direct Air Capture of CO <sub>2</sub> . <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 1745-1752	4.1	21
146	Experimental study on the removal of SO <sub>3</sub> from coal-fired flue gas by alkaline sorbent. <i>Fuel</i> , <b>2020</b> , 259, 116306	7.1	21
145	Particle removal enhancement in a high-temperature electrostatic precipitator for glass furnace. <i>Powder Technology</i> , <b>2017</b> , 319, 154-162	5.2	20
144	Characteristics and Uncertainty of Industrial VOCs Emissions in China. <i>Aerosol and Air Quality Research</i> , <b>2015</b> , 15, 1045-1058	4.6	20
143	Manganese-cerium oxide catalysts prepared by non-thermal plasma for NO oxidation: Effect of O <sub>2</sub> in discharge atmosphere. <i>Applied Surface Science</i> , <b>2017</b> , 416, 78-85	6.7	19
142	Developments in Unipolar Charging of Airborne Particles: Theories, Simulations and Measurements. <i>Aerosol and Air Quality Research</i> , <b>2017</b> , 16, 3037-3054	4.6	19

141	KOH-activated hydrochar with engineered porosity as sustainable adsorbent for volatile organic compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 588, 124372	5.1	19
140	Electrospinning synthesis of vanadiumTiO2Carbon composite nanofibrous membranes as effective catalysts for the complete oxidation of low-concentration acetone. <i>Applied Catalysis A: General</i> , <b>2015</b> , 507, 99-108	5.1	18
139	Development of back corona discharge in a wire-cylinder electrostatic precipitator at high temperatures. <i>Powder Technology</i> , <b>2015</b> , 286, 789-797	5.2	18
138	A DFT study on the behavior of NO <sub>2</sub> in the selective catalytic reduction of nitric oxides with ammonia on a V <sub>2</sub> O <sub>5</sub> catalyst surface. <i>Journal of Molecular Catalysis A</i> , <b>2010</b> , 317, 46-53		18
137	Experimental study on the evaporation and chlorine migration of desulfurization wastewater in flue gas. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 4791-4800	5.1	18
136	Insights into the role of particle space charge effects in particle precipitation processes in electrostatic precipitator. <i>Powder Technology</i> , <b>2018</b> , 339, 606-614	5.2	18
135	Fast Evolution of Sulfuric Acid Aerosol Activated by External Fields for Enhanced Emission Control. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 3022-3031	10.3	17
134	Exploring the role of V <sub>2</sub> O <sub>5</sub> in the reactivity of NH <sub>4</sub> HSO <sub>4</sub> with NO on V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> SCR catalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 102436-102443	3.7	17
133	Molecular Transformations of Arsenic Species in the Flue Gas of Typical Power Plants: A Density Functional Theory Study. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 4209-4214	4.1	17
132	Adsorption kinetics of NO on ordered mesoporous carbon (OMC) and cerium-containing OMC (Ce-OMC). <i>Applied Surface Science</i> , <b>2014</b> , 317, 26-34	6.7	17
131	Development and Experimental Evaluation of a Continuous Monitor for SO <sub>3</sub> Measurement. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 9684-9692	4.1	17
130	CFD simulation of high-temperature effect on EHD characteristics in a wire-plate electrostatic precipitator. <i>Chinese Journal of Chemical Engineering</i> , <b>2015</b> , 23, 633-640	3.2	17
129	Synergy of vanadia and ceria in the reaction mechanism of low-temperature selective catalytic reduction of NO <sub>x</sub> by NH <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2020</b> , 391, 145-154	7.3	17
128	Transient Kinetic Analysis of Low-Temperature NH <sub>3</sub> -SCR over Cu-CHA Catalysts Reveals a Quadratic Dependence of Cu Reduction Rates on Cull. <i>ACS Catalysis</i> , <b>2021</b> , 11, 4821-4831	13.1	17
127	Speciation Characteristics and Mobility of Trace Elements Across Ultralow Emission Air Pollution Control Devices. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 13963-13971	4.1	16
126	Measurement and prediction of fly ash resistivity over a wide range of temperature. <i>Fuel</i> , <b>2018</b> , 216, 673-680	7.1	16
125	Effect of gas-liquid phase compositions on NO <sub>2</sub> and NO absorption into ammonium-sulfite and bisulfite solutions. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 1506-1512	7.2	16
124	Study of the Promotion Effect of Iron on Supported Manganese Catalysts for NO Oxidation. <i>Aerosol and Air Quality Research</i> , <b>2014</b> , 14, 1038-1046	4.6	16



123	Synthesis and characterization of single-phase submicron zeolite Y from coal fly ash and its potential application for acetone adsorption. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 295, 109940	5.3	16
122	Modeling and optimization of wet flue gas desulfurization system based on a hybrid modeling method. <i>Journal of the Air and Waste Management Association</i> , <b>2019</b> , 69, 565-575	2.4	16
121	Elemental Mercury Capture from Syngas by Novel High-Temperature Sorbent Based on Pd/Ce Binary Metal Oxides. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 3678-3684	3.9	15
120	Evolution of Condensable Fine Particle Size Distribution in Simulated Flue Gas by External Regulation for Growth Enhancement. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 3840-3848	10.3	15
119	Experimental Study on Removal Characteristics of SO <sub>3</sub> by Wet Flue Gas Desulfurization Absorber. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 6031-6038	4.1	15
118	Catalytic oxidation of acetone over CuCeOx nanofibers prepared by an electrospinning method. <i>RSC Advances</i> , <b>2014</b> , 4, 43874-43881	3.7	15
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114	Promotion effect of KOH surface etching on sucrose-based hydrochar for acetone adsorption. <i>Applied Surface Science</i> , <b>2019</b> , 496, 143617	6.7	14
113	Attractive Pickering Emulsion Gels. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102362	24	14
112	Promotional effect of TiO <sub>2</sub> on quinoline hydrodenitrogenation activity over Pt/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Chemical Engineering Science</i> , <b>2019</b> , 207, 1085-1095	4.4	13
111	CFD simulation with enhancement factor of sulfur dioxide absorption in the spray scrubber. <i>Journal of Zhejiang University: Science A</i> , <b>2008</b> , 9, 1601-1613	2.1	13
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109	Insight into the significant roles of microstructures and functional groups on carbonaceous surfaces for acetone adsorption.. <i>RSC Advances</i> , <b>2018</b> , 8, 21541-21550	3.7	13
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107	Integration of machine learning approaches for accelerated discovery of transition-metal dichalcogenides as Hg <sub>0</sub> sensing materials. <i>Applied Energy</i> , <b>2019</b> , 254, 113651	10.7	12
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103	Effect of dust layer in electrostatic precipitators on discharge characteristics and particle removal. <i>Fuel</i> , <b>2020</b> , 278, 118335	7.1	12
102	Catalytic oxidation of Hg with O induced by synergistic coupling of CeO and MoO. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 381, 121037	12.8	12
101	Predicting particle collection performance of a wet electrostatic precipitator under varied conditions with artificial neural networks. <i>Powder Technology</i> , <b>2021</b> , 377, 632-639	5.2	12
100	Current density distribution and optimization of the collection electrodes of a honeycomb wet electrostatic precipitator.. <i>RSC Advances</i> , <b>2018</b> , 8, 30701-30711	3.7	12
99	New Insights into the Decomposition Behavior of NHHSO on the SiO-Decorated SCR Catalyst and Its Enhanced SO-Resistant Ability. <i>ACS Omega</i> , <b>2019</b> , 4, 4927-4935	3.9	11
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97	Experimental study of NO <sub>2</sub> reduction in N <sub>2</sub> /Ar and O <sub>2</sub> /Ar mixtures by pulsed corona discharge. <i>Journal of Environmental Sciences</i> , <b>2014</b> , 26, 2249-56	6.4	11
96	Elemental mercury removal from syngas by nano-ZnO sorbent. <i>Journal of Fuel Chemistry and Technology</i> , <b>2013</b> , 41, 1371-1377	1.8	11
95	Plasma-induced adsorption of elemental mercury on TiO <sub>2</sub> supported metal oxide catalyst at low temperatures. <i>Fuel Processing Technology</i> , <b>2015</b> , 138, 14-20	7.2	11
94	Effect of KCl on the selective catalytic reduction of NO with NH <sub>3</sub> over vanadia-based catalysts for biomass combustion. <i>Environmental Progress and Sustainable Energy</i> , <b>2014</b> , 33, 390-395	2.5	11
93	Study of Geometry Structure on a WirePlate Pulsed Corona Discharge Reactor. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 802-810	1.3	11
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88	Simulation of SO <sub>2</sub> absorption and performance enhancement of wet flue gas desulfurization system. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 150, 453-463	5.5	11

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76	Investigation on optimal active layer thickness and pore size in dual-layer NH <sub>3</sub> -SCR monolith for low SO <sub>2</sub> oxidation by numerical simulation. <i>Fuel</i> , <b>2020</b> , 279, 118420	7.1	7
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74	Experimental study on ZnO-TiO <sub>2</sub> sorbents for the removal of elemental mercury. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 2383-2389	2.8	7
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71	A novel method of microwave heating mixed liquid-assisted regeneration of V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> commercial SCR catalysts. <i>Environmental Geochemistry and Health</i> , <b>2015</b> , 37, 905-14	4.7	6
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59	Accelerated identification of high-performance catalysts for low-temperature NH3-SCR by machine learning. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 23850-23859	13	5
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39	Effect of relative humidity on non-refractory submicron aerosol evolution during summertime in Hangzhou, China. <i>Journal of Zhejiang University: Science A</i> , 2018, 19, 45-59	2.1	2
38	Highly efficient recovery of molybdenum from spent catalyst by an optimized process. <i>Journal of the Air and Waste Management Association</i> , 2020, 70, 971-979	2.4	2
37	Measurement techniques for sulfur trioxide concentration in coal-fired flue gas: a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 22278-22295	5.1	2
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29	Particle charging in electric field under simulated SO <sub>3</sub> -containing flue gas at low temperature. <i>Fuel</i> , <b>2022</b> , 310, 122291	7.1	1
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22	Regeneration mechanism of CeO <sub>2</sub> -TiO <sub>2</sub> sorbents for elemental mercury capture from syngas. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 1008-1013	2.8	0
21	Simulation of SO <sub>2</sub> removal process from marine exhaust gas by hybrid exhaust gas cleaning systems (EGCS) using seawater and magnesium-based absorbent. <i>Separation and Purification Technology</i> , <b>2022</b> , 287, 120557	8.3	0
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15	Nonferrous metal flue gas purification based on high-temperature electrostatic precipitation. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 154, 202-210	5.5	o
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