

Xiang Gao

List of Publications by Year in Descending Order

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

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	Simulation of SO ₂ 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> , 2022 , 287, 120557	8.3	0
247	An integrated LSTM-AM and SPRT method for fault early detection of Forced-Oxidation System in Wet Flue Gas Desulfurization. <i>Chemical Engineering Research and Design</i> , 2022 , 160, 242-242	5.5	0
246	Optimizing magnetic functionalization conditions for efficient preparation of magnetic biochar and adsorption of Pb(II) from aqueous solution. <i>Science of the Total Environment</i> , 2022 , 806, 151442	10.2	3
245	Particle charging in electric field under simulated SO ₃ -containing flue gas at low temperature. <i>Fuel</i> , 2022 , 310, 122291	7.1	1
244	Density functional theory studies on ortho-position adsorption of SO ₃ at step sites of a CaO surface with SO ₂ and CO ₂ . <i>Fuel</i> , 2022 , 310, 122174	7.1	
243	Enhanced performance of Nb ₂ O ₅ decorated RuO ₂ /Sn _{0.2} Ti _{0.8} O ₂ for selective catalytic oxidation of ammonia. <i>Chemical Engineering Research and Design</i> , 2022 , 160, 948-957	5.5	1
242	Unexpected rise of atmospheric secondary aerosols from biomass burning during the COVID-19 lockdown period in Hangzhou, China.. <i>Atmospheric Environment</i> , 2022 , 278, 119076	5.3	1
241	An industrial demonstration study on CO mineralization curing for concrete.. <i>IScience</i> , 2022 , 25, 104261	6.1	0
240	Hybrid gas sensor array to identify and quantify low-concentration VOCs mixtures commonly found in chemical industrial parks. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	0
239	Accelerated identification of high-performance catalysts for low-temperature NH ₃ -SCR by machine learning. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 23850-23859	13	5
238	Multi-pollutant Removal System and Technology Evaluations. <i>Advanced Topics in Science and Technology in China</i> , 2021 , 281-323	0.2	
237	Pollutant Control by Electric Methods. <i>Advanced Topics in Science and Technology in China</i> , 2021 , 105-198	0.2	
236	Pollutant Control by Absorption Methods. <i>Advanced Topics in Science and Technology in China</i> , 2021 , 199-279	0.2	
235	Pollutant Control by Catalytic Methods. <i>Advanced Topics in Science and Technology in China</i> , 2021 , 21-103	0.2	
234	The Study on the Active Site Regulated RuO _x /Sn _{0.2} Ti _{0.8} O ₂ Catalysts with Different Ru Precursors for the Catalytic Oxidation of Dichloromethane. <i>Catalysts</i> , 2021 , 11, 1306	4	
233	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
232	Effect of Gas Components and Particulate Matter on the Conversion of Nitric Oxide by Dielectric Barrier Discharge. <i>Energy & Fuels</i> , 2021 , 35, 6711-6724	4.1	4

231	Transient Kinetic Analysis of Low-Temperature NH ₃ -SCR over Cu-CHA Catalysts Reveals a Quadratic Dependence of Cu Reduction Rates on Cull. <i>ACS Catalysis</i> , 2021 , 11, 4821-4831	13.1	17
230	Simulation of SO ₂ absorption and performance enhancement of wet flue gas desulfurization system. <i>Chemical Engineering Research and Design</i> , 2021 , 150, 453-463	5.5	11
229	Attractive Pickering Emulsion Gels. <i>Advanced Materials</i> , 2021 , 33, e2102362	24	14
228	The relationship of morphology and catalytic performance of CeO ₂ catalysts for reducing nitrobenzene to azoxybenzene under the base-free condition. <i>Chinese Chemical Letters</i> , 2021 , 32, 761-764	8.1	1
227	Predicting particle collection performance of a wet electrostatic precipitator under varied conditions with artificial neural networks. <i>Powder Technology</i> , 2021 , 377, 632-639	5.2	12
226	Minimizing the adverse effects of dust layer on the particle migration in electrostatic precipitator under various temperature. <i>Fuel Processing Technology</i> , 2021 , 213, 106659	7.2	4
225	Exploring the role of sulfuric acid aerosol in corona discharge through a honeycomb wet electrostatic precipitator. <i>Chemical Engineering Research and Design</i> , 2021 , 146, 763-769	5.5	2
224	Promotional effects of ruthenium oxide on catalytic oxidation of dichloromethane over the tungsten-titanium binary oxides catalyst. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 6461-6471	5.9	2
223	Mechanism and Enhancement of the Low-Temperature Selective Catalytic Reduction of NO _x with NH ₃ by Bifunctional Catalytic Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6446-6454	3.9	3
222	On the Redox Mechanism of Low-Temperature NH ₃ -SCR over Cu-CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. <i>Angewandte Chemie</i> , 2021 , 133, 7273-7280	3.6	6
221	Multi-Objective Load Dispatch Control of Biomass Heat and Power Cogeneration Based on Economic Model Predictive Control. <i>Energies</i> , 2021 , 14, 762	3.1	2
220	On the Redox Mechanism of Low-Temperature NH ₃ -SCR over Cu-CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7197-7204	16.4	24
219	Whole life cycle performance evolution of selective catalytic reduction catalyst in coal-fired power plants. <i>Fuel Processing Technology</i> , 2021 , 219, 106866	7.2	2
218	Improving the removal of particles via electrostatic precipitator by optimizing the corona wire arrangement. <i>Powder Technology</i> , 2021 , 388, 201-211	5.2	1
217	Dynamic NO emission prediction based on composite models adapt to different operating conditions of coal-fired utility boilers. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	0
216	Highly efficient selective extraction of Mo with novel hydrophobic deep eutectic solvents. <i>Journal of the Air and Waste Management Association</i> , 2021 , 71, 1492-1501	2.4	2
215	Design and development of an ammonia slip detection device and system for flue gas denitration equipment. <i>Chemical Engineering Research and Design</i> , 2021 , 153, 130-138	5.5	0
214	Unraveling the Hydrolysis of Z ₂ Cu ₂ ⁺ to ZCu ₂ (OH) ₂ ⁺ and Its Consequences for the Low-Temperature Selective Catalytic Reduction of NO on Cu-CHA Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 11616-11625	13.1	9

213	Investigation of the growth and removal of particles in coal-fired flue gas by temperature management. <i>Fuel</i> , 2021 , 302, 121220	7.1	2
212	Nonferrous metal flue gas purification based on high-temperature electrostatic precipitation. <i>Chemical Engineering Research and Design</i> , 2021 , 154, 202-210	5.5	0
211	Low-temperature electrostatic precipitator with different electrode configurations under various operation conditions. <i>Powder Technology</i> , 2021 , 394, 1178-1185	5.2	0
210	Environmental consequences of an ultra-low emission retrofit in coal-fired power plants from a life cycle perspective. <i>Waste Disposal & Sustainable Energy</i> , 2021 , 3, 309-323	4.3	0
209	Particle capture in a high-temperature electrostatic precipitator with different electrode configurations. <i>Powder Technology</i> , 2020 , 372, 84-93	5.2	3
208	A real-time optimization method for economic and effective operation of electrostatic precipitators. <i>Journal of the Air and Waste Management Association</i> , 2020 , 70, 708-720	2.4	
207	Evolution of Condensable Fine Particle Size Distribution in Simulated Flue Gas by External Regulation for Growth Enhancement. <i>Environmental Science & Technology</i> , 2020 , 54, 3840-3848	10.3	15
206	Effect of multi-pollutant on the catalytic oxidation of dichloromethane over RuO ₂ -WO ₃ /SnO ₂ -TiO ₂ catalyst. <i>Fuel</i> , 2020 , 278, 118207	7.1	8
205	Investigation on optimal active layer thickness and pore size in dual-layer NH ₃ -SCR monolith for low SO ₂ oxidation by numerical simulation. <i>Fuel</i> , 2020 , 279, 118420	7.1	7
204	CO ₂ mineralization and utilization by alkaline solid wastes for potential carbon reduction. <i>Nature Sustainability</i> , 2020 , 3, 399-405	22.1	66
203	Fast Evolution of Sulfuric Acid Aerosol Activated by External Fields for Enhanced Emission Control. <i>Environmental Science & Technology</i> , 2020 , 54, 3022-3031	10.3	17
202	A Numerical Investigation of the Effect of Dust Layer on Particle Migration in an Electrostatic Precipitator. <i>Aerosol and Air Quality Research</i> , 2020 , 20, 166-179	4.6	6
201	Investigation of Arsenic Poisoned Selective Catalytic Reduction Catalyst Performance and Lifetime in Coal-Fired Power Plants. <i>Energy & Fuels</i> , 2020 , 34, 12833-12840	4.1	4
200	KOH-activated hydrochar with engineered porosity as sustainable adsorbent for volatile organic compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 588, 124372	5.1	19
199	Field test of SO removal in ultra-low emission coal-fired power plants. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 4746-4755	5.1	11
198	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> , 2020 , 295, 109940	5.3	16
197	Numerical simulation of the simultaneous removal of particulate matter in a wet flue gas desulfurization system. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 1598-1607	5.1	11
196	Different reactive behaviours of dichloromethane over anatase TiO ₂ supported RuO ₂ and V ₂ O ₅ . <i>Catalysis Today</i> , 2020 , 355, 349-357	5.3	15

195	Molecular insights into the hydrodenitrogenation mechanism of pyridine over Pt/Al ₂ O ₃ catalysts. <i>Molecular Catalysis</i> , 2020 , 495, 111148	3.3	3
194	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
193	Performance Analysis and Evaluation of a Supercritical CO ₂ Rankine Cycle Coupled with an Absorption Refrigeration Cycle. <i>Journal of Thermal Science</i> , 2020 , 29, 1036-1052	1.9	4
192	An experimental and modelling study of the reactivity of adsorbed NH ₃ in the low temperature NH ₃ -SCR reduction half-cycle over a Cu-CHA catalyst. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119397	21.8	31
191	Effect of dust layer in electrostatic precipitators on discharge characteristics and particle removal. <i>Fuel</i> , 2020 , 278, 118335	7.1	12
190	Synergy of vanadia and ceria in the reaction mechanism of low-temperature selective catalytic reduction of NO _x by NH ₃ . <i>Journal of Catalysis</i> , 2020 , 391, 145-154	7.3	17
189	Enhanced particle precipitation from flue gas containing ultrafine particles through precharging. <i>Chemical Engineering Research and Design</i> , 2020 , 144, 111-122	5.5	5
188	Non-Thermal Plasma-Modified Ru-Sn-Ti Catalyst for Chlorinated Volatile Organic Compound Degradation. <i>Catalysts</i> , 2020 , 10, 1456	4	0
187	MoO ₃ -adjusted MnO ₂ nanosheet for catalytic oxidation of Hg ⁰ to Hg ²⁺ . <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 117829	21.8	25
186	Experimental study on the removal of SO ₃ from coal-fired flue gas by alkaline sorbent. <i>Fuel</i> , 2020 , 259, 116306	7.1	21
185	Catalytic oxidation of Hg with O ₂ induced by synergistic coupling of CeO and MoO. <i>Journal of Hazardous Materials</i> , 2020 , 381, 121037	12.8	12
184	Numerical simulation of particle migration in electrostatic precipitator with different electrode configurations. <i>Powder Technology</i> , 2020 , 361, 238-247	5.2	7
183	Comprehensive understanding of SO ₃ effects on synergies among air pollution control devices in ultra-low emission power plants burning high-sulfur coal. <i>Journal of Cleaner Production</i> , 2019 , 239, 118096	10.3	59
182	A perspective on the applications of energy-cyber-physical systems (e-CPSs) in ultra-low emission coal-fired power plants. <i>Energy Procedia</i> , 2019 , 158, 6139-6144	2.3	4
181	Improvement of fuel sources and energy products flexibility in coal power plants via energy-cyber-physical-systems approach. <i>Applied Energy</i> , 2019 , 254, 113554	10.7	12
180	Integration of machine learning approaches for accelerated discovery of transition-metal dichalcogenides as Hg ⁰ sensing materials. <i>Applied Energy</i> , 2019 , 254, 113651	10.7	12
179	Mechanism of Hg ⁰ and O ₂ Interaction on the IrO ₂ (110) Surface: A Density Functional Theory Study. <i>Energy & Fuels</i> , 2019 , 33, 1354-1362	4.1	12
178	Meteorological and chemical impacts on PM during a haze episode in a heavily polluted basin city of eastern China. <i>Environmental Pollution</i> , 2019 , 250, 520-529	9.3	22

177	Structure and crystal phase transition effect of Sn doping on anatase TiO for dichloromethane decomposition. <i>Journal of Hazardous Materials</i> , 2019 , 371, 156-164	12.8	39
176	New Insights into the Decomposition Behavior of NHHSO on the SiO-Decorated SCR Catalyst and Its Enhanced SO-Resistant Ability. <i>ACS Omega</i> , 2019 , 4, 4927-4935	3.9	11
175	Insights into the role of ionic wind in honeycomb electrostatic precipitators. <i>Journal of Aerosol Science</i> , 2019 , 133, 83-95	4.3	22
174	Experimental study on electrostatic removal of high-carbon particle in high temperature coal pyrolysis gas. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 2959-2965	5.9	10
173	Promotion effect of KOH surface etching on sucrose-based hydrochar for acetone adsorption. <i>Applied Surface Science</i> , 2019 , 496, 143617	6.7	14
172	Promotional effect of TiO ₂ on quinoline hydrodenitrogenation activity over Pt/Al ₂ O ₃ catalysts. <i>Chemical Engineering Science</i> , 2019 , 207, 1085-1095	4.4	13
171	Evaporation and concentration of desulfurization wastewater with waste heat from coal-fired power plants. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 27494-27504	5.1	10
170	Experiments on Enhancing the Particle Charging Performance of an Electrostatic Precipitator. <i>Aerosol and Air Quality Research</i> , 2019 , 19, 1411-1420	4.6	5
169	Low temperature catalytic oxidation of propane over cobalt-cerium spinel oxides catalysts. <i>Applied Surface Science</i> , 2019 , 479, 1132-1140	6.7	41
168	The effect of ozone addition on combustion: Kinetics and dynamics. <i>Progress in Energy and Combustion Science</i> , 2019 , 73, 1-25	33.6	43
167	Tuning of catalytic sites in Pt/TiO ₂ catalysts for the chemoselective hydrogenation of 3-nitrostyrene. <i>Nature Catalysis</i> , 2019 , 2, 873-881	36.5	91
166	Formation, transformation, measurement, and control of SO ₃ in coal-fired power plants. <i>Fuel</i> , 2019 , 241, 327-346	7.1	69
165	Enhancing PM Removal by Pulse Energized Electrostatic Precipitators—Comparative Study. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 365-375	1.3	1
164	Coupling Nonthermal Plasma with V ₂ O ₅ /TiO ₂ Nanofiber Catalysts for Enhanced Oxidation of Ethyl Acetate. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2-10	3.9	7
163	Plasma-catalytic decomposition of ethyl acetate over LaMO ₃ (M = Mn, Fe, and Co) perovskite catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 70, 447-452	6.3	24
162	Designing SO ₂ -resistant cerium-based catalyst by modifying with Fe ₂ O ₃ for the selective catalytic reduction of NO with NH ₃ . <i>Molecular Catalysis</i> , 2019 , 462, 10-18	3.3	26
161	Numerical simulation of selective catalytic reduction of NO and SO ₂ oxidation in monolith catalyst. <i>Chemical Engineering Journal</i> , 2019 , 361, 874-884	14.7	28
160	Experimental study on the evaporation and chlorine migration of desulfurization wastewater in flue gas. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 4791-4800	5.1	18

159	An Amended Chemical Mass Balance Model for Source Apportionment of PM2.5 in Typical Chinese Eastern Coastal Cities. <i>Clean - Soil, Air, Water</i> , 2019 , 47, 1800115	1.6	4
158	Structural defects in 2D MoS nanosheets and their roles in the adsorption of airborne elemental mercury. <i>Journal of Hazardous Materials</i> , 2019 , 366, 240-249	12.8	85
157	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> , 2019 , 69, 565-575	2.4	16
156	Atmospheric emission inventory of SO3 from coal-fired power plants in China in the period 2009-2014. <i>Atmospheric Environment</i> , 2019 , 197, 14-21	5.3	34
155	Preparation of Quaternized Bamboo Cellulose and Its Implication in Direct Air Capture of CO2. <i>Energy & Fuels</i> , 2019 , 33, 1745-1752	4.1	21
154	Promotional effect of doping Cu into cerium-titanium binary oxides catalyst for deep oxidation of gaseous dichloromethane. <i>Chemosphere</i> , 2019 , 214, 553-562	8.4	27
153	New insight into alkali resistance and low temperature activation on vanadia-titania catalysts for selective catalytic reduction of NO. <i>Applied Surface Science</i> , 2019 , 466, 99-109	6.7	24
152	Investigating the role of H4SiW12O40 in the acidity, oxidability and activity of H4SiW12O40-Fe2O3 catalysts for the selective catalytic reduction of NO with NH3. <i>Molecular Catalysis</i> , 2018 , 448, 177-184	3.3	8
151	Numerical simulation of corona discharge and particle transport behavior with the particle space charge effect. <i>Journal of Aerosol Science</i> , 2018 , 118, 22-33	4.3	32
150	Assessment of winter air pollution episodes using long-range transport modeling in Hangzhou, China, during World Internet Conference, 2015. <i>Environmental Pollution</i> , 2018 , 236, 550-561	9.3	30
149	Co-benefit of hazardous trace elements capture in dust removal devices of ultra-low emission coal-fired power plants. <i>Journal of Zhejiang University: Science A</i> , 2018 , 19, 68-79	2.1	11
148	Experimental Study on Removal Characteristics of SO3 by Wet Flue Gas Desulfurization Absorber. <i>Energy & Fuels</i> , 2018 , 32, 6031-6038	4.1	15
147	Mechanistic investigation of NH3 oxidation over V-0.5Ce(SO4)2/Ti NH3-SCR catalyst. <i>Catalysis Communications</i> , 2018 , 112, 1-4	3.2	12
146	Highly efficient removal of sulfuric acid aerosol by a combined wet electrostatic precipitator. <i>RSC Advances</i> , 2018 , 8, 59-66	3.7	32
145	Measurement and prediction of fly ash resistivity over a wide range of temperature. <i>Fuel</i> , 2018 , 216, 673-680	7.1	16
144	Integrated Dynamic and Steady State Method and Its Application on the Screening of MoS2 Nanosheet-Containing Adsorbents for Hg0 Capture. <i>Energy & Fuels</i> , 2018 , 32, 5338-5344	4.1	24
143	Density functional theory study of the adsorption of elemental mercury on a 1T-MoS2 monolayer. <i>Journal of Zhejiang University: Science A</i> , 2018 , 19, 60-67	2.1	5
142	Challenge of SO3 removal by wet electrostatic precipitator under simulated flue gas with high SO3 concentration. <i>Fuel</i> , 2018 , 217, 597-604	7.1	52

141	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
140	Chemical characteristics and sources of PM during the 2016 summer in Hangzhou. <i>Environmental Pollution</i> , 2018 , 232, 42-54	9.3	27
139	Mechanistic investigation of enhanced reactivity of NH ₄ HSO ₄ and NO on Nb- and Sb-doped VW/Ti SCR catalysts. <i>Applied Catalysis A: General</i> , 2018 , 549, 310-319	5.1	53
138	In-Situ Characterization of Coal Particle Combustion via Long Working Distance Digital In-Line Holography. <i>Energy & Fuels</i> , 2018 , 32, 8277-8286	4.1	10
137	A combined wet electrostatic precipitator for efficiently eliminating fine particle penetration. <i>Fuel Processing Technology</i> , 2018 , 180, 122-129	7.2	37
136	Cost estimate of the multi-pollutant abatement in coal-fired power sector in China. <i>Energy</i> , 2018 , 161, 523-535	7.9	22
135	Energy consumption and energy-saving potential analysis of pollutant abatement systems in a 1000-MW coal-fired power plant. <i>Journal of the Air and Waste Management Association</i> , 2018 , 68, 920-930	2.4	3
134	The Effect of Cr Addition on Hg ⁰ Oxidation and NO Reduction over V ₂ O ₅ /TiO ₂ Catalyst. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 803-810	4.6	6
133	Smog chamber study of the role of NH in new particle formation from photo-oxidation of aromatic hydrocarbons. <i>Science of the Total Environment</i> , 2018 , 619-620, 927-937	10.2	23
132	A Comparative Study of the NH ₃ -SCR Reactions over an Original and Sb-Modified V ₂ O ₅ WO ₃ /TiO ₂ Catalyst at Low Temperatures. <i>Energies</i> , 2018 , 11, 3339	3.1	3
131	Synthesis and characterization of a single phase zeolite A using coal fly ash.. <i>RSC Advances</i> , 2018 , 8, 42200-42205	9.7	205
130	Adopting Big Data to Accelerate Discovery of 2D TMDCs Materials via CVR Method for the Potential Application in Urban Airborne Hg ⁰ Sensor. <i>Energy Procedia</i> , 2018 , 152, 847-852	2.3	3
129	Speciation and Thermal Stability of Mercury in Solid Products from Ultralow Emission Air Pollution Control Devices. <i>Energy & Fuels</i> , 2018 , 32, 12655-12664	4.1	6
128	Balance and stability between particle collection and re-entrainment in a wide temperature-range electrostatic precipitator. <i>Powder Technology</i> , 2018 , 340, 543-552	5.2	11
127	Hybrid modeling scheme for PM concentration prediction of electrostatic precipitators. <i>Powder Technology</i> , 2018 , 340, 163-172	5.2	3
126	Supported Bimetallic AuPd Nanoparticles as a Catalyst for the Selective Hydrogenation of Nitroarenes. <i>Nanomaterials</i> , 2018 , 8,	5.4	13
125	Insights into the role of particle space charge effects in particle precipitation processes in electrostatic precipitator. <i>Powder Technology</i> , 2018 , 339, 606-614	5.2	18
124	Removal and Emission Characteristics of Condensable Particulate Matter in an Ultralow Emission Power Plant. <i>Energy & Fuels</i> , 2018 , 32, 10586-10594	4.1	36

123	Current density distribution and optimization of the collection electrodes of a honeycomb wet electrostatic precipitator.. <i>RSC Advances</i> , 2018 , 8, 30701-30711	3.7	12
122	Insight into the significant roles of microstructures and functional groups on carbonaceous surfaces for acetone adsorption.. <i>RSC Advances</i> , 2018 , 8, 21541-21550	3.7	13
121	La _{0.8} M _{0.2} MnO ₃ (M = Ba, Ca, Ce, Mg and Sr) perovskite catalysts for plasma-catalytic oxidation of ethyl acetate. <i>Catalysis Communications</i> , 2017 , 92, 35-39	3.2	27
120	Improvement in activity and alkali resistance of a novel V-Ce(SO ₄) ₂ /Ti catalyst for selective catalytic reduction of NO with NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 449-460	21.8	82
119	Manganese-cerium oxide catalysts prepared by non-thermal plasma for NO oxidation: Effect of O ₂ in discharge atmosphere. <i>Applied Surface Science</i> , 2017 , 416, 78-85	6.7	19
118	Controllable synthesis of hierarchical MnO/TiO composite nanofibers for complete oxidation of low-concentration acetone. <i>Journal of Hazardous Materials</i> , 2017 , 337, 105-114	12.8	28
117	Experimental Study on Electrostatic Precipitation of Low-Resistivity High-Carbon Fly Ash at High Temperature. <i>Energy & Fuels</i> , 2017 , 31, 6266-6273	4.1	22
116	Enhanced performance for plasma-catalytic oxidation of ethyl acetate over La _{1-x} Ce _x CoO ₃ +□ catalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 213, 97-105	21.8	81
115	Quantitative assessment of industrial VOC emissions in China: Historical trend, spatial distribution, uncertainties, and projection. <i>Atmospheric Environment</i> , 2017 , 150, 116-125	5.3	67
114	Particle removal enhancement in a high-temperature electrostatic precipitator for glass furnace. <i>Powder Technology</i> , 2017 , 319, 154-162	5.2	20
113	Partitioning of Hazardous Trace Elements among Air Pollution Control Devices in Ultra-Low-Emission Coal-Fired Power Plants. <i>Energy & Fuels</i> , 2017 , 31, 6334-6344	4.1	33
112	Microwave-induced activation of additional active edge sites on the MoS ₂ surface for enhanced Hg ₀ capture. <i>Applied Surface Science</i> , 2017 , 420, 439-445	6.7	21
111	Graphene-like MoS ₂ containing adsorbents for Hg ₀ capture at coal-fired power plants. <i>Applied Energy</i> , 2017 , 207, 254-264	10.7	52
110	Electric agglomeration modes of coal-fired fly-ash particles with water droplet humidification. <i>Fuel</i> , 2017 , 200, 134-145	7.1	32
109	Speciation Characteristics and Mobility of Trace Elements Across Ultralow Emission Air Pollution Control Devices. <i>Energy & Fuels</i> , 2017 , 31, 13963-13971	4.1	16
108	Plasma-assisted adsorption of elemental mercury on CeO ₂ /TiO ₂ at low temperatures. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 94, 012050	0.3	
107	Experimental study on ZnO-TiO ₂ sorbents for the removal of elemental mercury. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 2383-2389	2.8	7
106	Development and Experimental Evaluation of a Continuous Monitor for SO ₃ Measurement. <i>Energy & Fuels</i> , 2017 , 31, 9684-9692	4.1	17

105	Sulfuric Acid Aerosol Formation and Collection by Corona Discharge in a Wet Electrostatic Precipitator. <i>Energy & Fuels</i> , 2017 , 31, 8400-8406	4.1	12
104	Fine particle migration and collection in a wet electrostatic precipitator. <i>Journal of the Air and Waste Management Association</i> , 2017 , 67, 498-506	2.4	27
103	Developments in Unipolar Charging of Airborne Particles: Theories, Simulations and Measurements. <i>Aerosol and Air Quality Research</i> , 2017 , 16, 3037-3054	4.6	19
102	Study on Catalytic Soot Oxidation over Spinel Type ACo ₂ O ₄ (A = Co, Ni, Cu, Zn) Catalysts. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 2317-2327	4.6	24
101	New insights into the various decomposition and reactivity behaviors of NH ₄ HSO ₄ with NO on V ₂ O ₅ /TiO ₂ catalyst surfaces. <i>Chemical Engineering Journal</i> , 2016 , 283, 846-854	14.7	76
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92	Molecular Transformations of Arsenic Species in the Flue Gas of Typical Power Plants: A Density Functional Theory Study. <i>Energy & Fuels</i> , 2016 , 30, 4209-4214	4.1	17
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