# Xiang Gao

## List of Publications by Year in descending order

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|---|---|---|---|
| 256 papers | 9,881 citations | 36203 51 h-index | 54797 84 g-index |
| 261 all docs | 261 docs citations | 261 times ranked | 6239 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The activity and characterization of CeO2-TiO2 catalysts prepared by the solâ€“gel method for selective catalytic reduction of NO with NH3. Journal of Hazardous Materials, 2010, 174, 734-739. | 6.5 | 411 |
| 2 | Plasma-catalytic removal of formaldehyde over Cuâ€“Ce catalysts in a dielectric barrier discharge reactor. Applied Catalysis B: Environmental, 2015, 170-171, 293-300. | 10.8 | 270 |
| 3 | Relationship between structure and performance of a novel cerium-niobium binary oxide catalyst for selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2013, 142-143, 290-297. | 10.8 | 255 |
| 4 | Preparation and characterization of CeO2/TiO2 catalysts for selective catalytic reduction of NO with NH3. Catalysis Communications, 2010, 11, 465-469. | 1.6 | 250 |
| 5 | Recent Advances in Catalysts for Methane Combustion. Catalysis Surveys From Asia, 2015, 19, 140-171. | 1.0 | 208 |
| 6 | Tuning of catalytic sites in Pt/TiO2 catalysts for the chemoselective hydrogenation of 3-nitrostyrene. Nature Catalysis, 2019, 2, 873-881. | 16.1 | 183 |
| 7 | CO2 mineralization and utilization by alkaline solid wastes for potential carbon reduction. Nature Sustainability, 2020, 3, 399-405. | 11.5 | 182 |
| 8 | Hg<sup>0</sup> Capture over CoMoS/Î³-Al<sub>2</sub>O<sub>3</sub> with MoS<sub>2</sub> Nanosheets at Low Temperatures. Environmental Science & Technology, 2016, 50, 1056-1064. | 4.6 | 157 |
| 9 | Atmospheric Emission Characteristics and Control Policies of Five Precedent-Controlled Toxic Heavy Metals from Anthropogenic Sources in China. Environmental Science & Technology, 2015, 49, 1206-1214. | 4.6 | 138 |
| 10 | A Ceâ€“Cuâ€“Ti oxide catalyst for the selective catalytic reduction of NO with NH3. Catalysis Communications, 2010, 12, 255-258. | 1.6 | 136 |
| 11 | CeO<sub>2</sub>â€“TiO<sub>2</sub> Sorbents for the Removal of Elemental Mercury from Syngas. Environmental Science & Technology, 2013, 47, 10056-10062. | 4.6 | 134 |
| 12 | Non-Thermal Plasmas for VOCs Abatement. Plasma Chemistry and Plasma Processing, 2014, 34, 1033-1065. | 1.1 | 130 |
| 13 | Formation, transformation, measurement, and control of SO3 in coal-fired power plants. Fuel, 2019, 241, 327-346. | 3.4 | 125 |
| 14 | Post-plasma catalytic removal of methanol over Mnâ€“Ce catalysts in an atmospheric dielectric barrier discharge. Applied Catalysis B: Environmental, 2016, 183, 124-132. | 10.8 | 118 |
| 15 | Enhanced performance for plasma-catalytic oxidation of ethyl acetate over La1-xCexCoO3+Î´ catalysts. Applied Catalysis B: Environmental, 2017, 213, 97-105. | 10.8 | 116 |
| 16 | Improvement in activity and alkali resistance of a novel V-Ce(SO4)2/Ti catalyst for selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2017, 206, 449-460. | 10.8 | 114 |
| 17 | Granular bed filter: A promising technology for hot gas clean-up. Powder Technology, 2013, 244, 93-99. | 2.1 | 113 |
| 18 | Quantitative assessment of industrial VOC emissions in China: Historical trend, spatial distribution, uncertainties, and projection. Atmospheric Environment, 2017, 150, 116-125. | 1.9 | 113 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Effects of PbCl2 on selective catalytic reduction of NO with NH3 over vanadia-based catalysts. Journal of Hazardous Materials, 2014, 274, 270-278. | 6.5 | 110 |
| 20 | Gasâ€“liquid absorption reaction between (NH4)2SO3 solution and SO2 for ammonia-based wet flue gas desulfurization. Applied Energy, 2010, 87, 2647-2651. | 5.1 | 109 |
| 21 | A model for performance optimization of wet flue gas desulfurization systems of power plants. Fuel Processing Technology, 2008, 89, 1025-1032. | 3.7 | 107 |
| 22 | Structural defects in 2D MoS2 nanosheets and their roles in the adsorption of airborne elemental mercury. Journal of Hazardous Materials, 2019, 366, 240-249. | 6.5 | 107 |
| 23 | Investigation of the effect of Cu addition on the SO2-resistance of a CeTi oxide catalyst for selective catalytic reduction of NO with NH3. Fuel, 2012, 92, 49-55. | 3.4 | 104 |
| 24 | The co-effect of Sb and Nb on the SCR performance of the V2O5/TiO2 catalyst. Journal of Colloid and Interface Science, 2012, 368, 406-412. | 5.0 | 102 |
| 25 | New insights into the various decomposition and reactivity behaviors of NH4HSO4 with NO on V2O5/TiO2 catalyst surfaces. Chemical Engineering Journal, 2016, 283, 846-854. | 6.6 | 101 |
| 26 | The effect of ozone addition on combustion: Kinetics and dynamics. Progress in Energy and Combustion Science, 2019, 73, 1-25. | 15.8 | 92 |
| 27 | Physicochemical properties of metal-doped activated carbons and relationship with their performance in the removal of SO2 and NO. Journal of Hazardous Materials, 2011, 188, 58-66. | 6.5 | 90 |
| 28 | Deactivation mechanism of arsenic and resistance effect of SO42â^' on commercial catalysts for selective catalytic reduction of NO with NH3. Chemical Engineering Journal, 2016, 293, 118-128. | 6.6 | 86 |
| 29 | Investigation of hybrid plasma-catalytic removal of acetone over CuO/Î³-Al 2 O 3 catalysts using response surface method. Chemosphere, 2016, 155, 9-17. | 4.2 | 85 |
| 30 | Mechanistic investigation of enhanced reactivity of NH4HSO4 and NO on Nb- and Sb-doped VW/Ti SCR catalysts. Applied Catalysis A: General, 2018, 549, 310-319. | 2.2 | 84 |
| 31 | Catalyst screening for acetone removal in a single-stage plasma-catalysis system. Catalysis Today, 2015, 256, 108-114. | 2.2 | 80 |
| 32 | Effect of H2S/HCl on the removal of elemental mercury in syngas over CeO2â€“TiO2. Chemical Engineering Journal, 2014, 241, 131-137. | 6.6 | 78 |
| 33 | Attractive Pickering Emulsion Gels. Advanced Materials, 2021, 33, e2102362. | 11.1 | 78 |
| 34 | On the Redox Mechanism of Lowâ€Temperature NH<sub>3</sub>â€SCR over Cuâ€CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. Angewandte Chemie - International Edition, 2021, 60, 7197-7204. | 7.2 | 77 |
| 35 | Challenge of SO3 removal by wet electrostatic precipitator under simulated flue gas with high SO3 concentration. Fuel, 2018, 217, 597-604. | 3.4 | 74 |
| 36 | Comprehensive understanding of SO3 effects on synergies among air pollution control devices in ultra-low emission power plants burning high-sulfur coal. Journal of Cleaner Production, 2019, 239, 118096. | 4.6 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Low temperature catalytic oxidation of propane over cobalt-cerium spinel oxides catalysts. Applied Surface Science, 2019, 479, 1132-1140. | 3.1 | 70 |
| 38 | Removal and Emission Characteristics of Condensable Particulate Matter in an Ultralow Emission Power Plant. Energy & Fuels, 2018, 32, 10586-10594. | 2.5 | 66 |
| 39 | Graphene-like MoS2 containing adsorbents for Hg0 capture at coal-fired power plants. Applied Energy, 2017, 207, 254-264. | 5.1 | 64 |
| 40 | Adsorption and reduction of NO2 over activated carbon at low temperature. Fuel Processing Technology, 2011, 92, 139-146. | 3.7 | 63 |
| 41 | Experimental study of acetone removal by packed-bed dielectric barrier discharge reactor. Journal of Industrial and Engineering Chemistry, 2014, 20, 2761-2768. | 2.9 | 61 |
| 42 | The Influence of Alkali Metals on the Ceâ€Ti Mixed Oxide Catalyst for the Selective Catalytic Reduction of NO<sub>x</sub>. ChemCatChem, 2012, 4, 2075-2081. | 1.8 | 59 |
| 43 | MoO3-adjusted Î´-MnO2 nanosheet for catalytic oxidation of Hg0 to Hg2+. Applied Catalysis B: Environmental, 2020, 263, 117829. | 10.8 | 59 |
| 44 | Simultaneous oxidation of NO, SO2 and Hg0 from flue gas by pulsed corona discharge. Journal of Environmental Sciences, 2009, 21, 328-332. | 3.2 | 57 |
| 45 | Nitrogen oxide absorption and nitrite/nitrate formation in limestone slurry for WFGD system. Applied Energy, 2014, 129, 187-194. | 5.1 | 57 |
| 46 | The Reaction of Poisonous Alkali Oxides with Vanadia SCR Catalyst and the Afterward Influence: A DFT and Experimental Study. Journal of Physical Chemistry C, 2015, 119, 1905-1912. | 1.5 | 57 |
| 47 | A combined wet electrostatic precipitator for efficiently eliminating fine particle penetration. Fuel Processing Technology, 2018, 180, 122-129. | 3.7 | 57 |
| 48 | Structure and crystal phase transition effect of Sn doping on anatase TiO2 for dichloromethane decomposition. Journal of Hazardous Materials, 2019, 371, 156-164. | 6.5 | 57 |
| 49 | Theoretical and experimental study on the deactivation of V2O5 based catalyst by lead for selective catalytic reduction of nitric oxides. Catalysis Today, 2011, 175, 625-630. | 2.2 | 55 |
| 50 | An experimental and modelling study of the reactivity of adsorbed NH3 in the low temperature NH3-SCR reduction half-cycle over a Cu-CHA catalyst. Applied Catalysis B: Environmental, 2020, 279, 119397. | 10.8 | 55 |
| 51 | An experimental study on the effects of temperature and pressure on negative corona discharge in high-temperature ESPs. Applied Energy, 2016, 164, 28-35. | 5.1 | 54 |
| 52 | Designing SO2-resistant cerium-based catalyst by modifying with Fe2O3 for the selective catalytic reduction of NO with NH3. Molecular Catalysis, 2019, 462, 10-18. | 1.0 | 54 |
| 53 | Preparation of Quaternized Bamboo Cellulose and Its Implication in Direct Air Capture of CO<sub>2</sub>. Energy & Fuels, 2019, 33, 1745-1752. | 2.5 | 54 |
| 54 | Numerical simulation on the fine particle charging and transport behaviors in a wire-plate electrostatic precipitator. Advanced Powder Technology, 2016, 27, 1905-1911. | 2.0 | 53 |

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|---|---|---|---|
| 55 | 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. Catalysis Science and Technology, 2016, 6, 1187-1194. | 2.1 | 53 |
| 56 | Particle migration and collection in a high-temperature electrostatic precipitator. Separation and Purification Technology, 2015, 143, 184-191. | 3.9 | 52 |
| 57 | Supported metal sulfates on Ceâ€“TiOx as catalysts for NH3â€“SCR of NO: High resistances to SO2 and potassium. Journal of Industrial and Engineering Chemistry, 2016, 36, 271-278. | 2.9 | 52 |
| 58 | Effect of electrode configuration on particle collection in a high-temperature electrostatic precipitator. Separation and Purification Technology, 2016, 166, 157-163. | 3.9 | 50 |
| 59 | Microstructure and Mechanical Properties of High-Toughness Fiber-Reinforced Cementitious Composites after Exposure to Elevated Temperatures. Journal of Materials in Civil Engineering, 2016, 28, . | 1.3 | 50 |
| 60 | Partitioning of Hazardous Trace Elements among Air Pollution Control Devices in Ultra-Low-Emission Coal-Fired Power Plants. Energy & Fuels, 2017, 31, 6334-6344. | 2.5 | 50 |
| 61 | Identification of the reaction pathway and reactive species for the selective catalytic reduction of NO with NH<sub>3</sub> over ceriumâ€“niobium oxide catalysts. Catalysis Science and Technology, 2016, 6, 2136-2142. | 2.1 | 49 |
| 62 | Electric agglomeration modes of coal-fired fly-ash particles with water droplet humidification. Fuel, 2017, 200, 134-145. | 3.4 | 49 |
| 63 | Numerical simulation of corona discharge and particle transport behavior with the particle space charge effect. Journal of Aerosol Science, 2018, 118, 22-33. | 1.8 | 49 |
| 64 | Plasma-catalytic removal of a low concentration of acetone in humid conditions. RSC Advances, 2014, 4, 37796-37805. | 1.7 | 48 |
| 65 | Experimental and theoretical studies on the influence of water vapor on the performance of a Ce-Cu-Ti oxide SCR catalyst. Applied Surface Science, 2013, 270, 370-376. | 3.1 | 47 |
| 66 | 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>â€“WO<sub>3</sub>/TiO<sub>2</sub> SCR catalysts. RSC Advances, 2016, 6, 55584-55592. | 1.7 | 47 |
| 67 | Life cycle assessment on biogas production from straw and its sensitivity analysis. Bioresource Technology, 2016, 201, 208-214. | 4.8 | 47 |
| 68 | Catalyst Design Based on DFT Calculations: Metal Oxide Catalysts for Gas Phase NO Reduction. Journal of Physical Chemistry C, 2014, 118, 13617-13622. | 1.5 | 46 |
| 69 | Plasma-catalytic decomposition of ethyl acetate over LaMO3 (M = Mn, Fe, and Co) perovskite catalysts. Journal of Industrial and Engineering Chemistry, 2019, 70, 447-452. | 2.9 | 46 |
| 70 | Synthesis and characterization of single-phase submicron zeolite Y from coal fly ash and its potential application for acetone adsorption. Microporous and Mesoporous Materials, 2020, 295, 109940. | 2.2 | 46 |
| 71 | Highly efficient removal of sulfuric acid aerosol by a combined wet electrostatic precipitator. RSC Advances, 2018, 8, 59-66. | 1.7 | 44 |
| 72 | Insights into the role of ionic wind in honeycomb electrostatic precipitators. Journal of Aerosol Science, 2019, 133, 83-95. | 1.8 | 44 |

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|---|---|---|---|
| 73 | Atmospheric emission inventory of SO3 from coal-fired power plants in China in the period 2009â€“2014. Atmospheric Environment, 2019, 197, 14-21. | 1.9 | 43 |
| 74 | Characteristics of negative DC corona discharge in a wireâ€“plate configuration at high temperatures. Separation and Purification Technology, 2015, 139, 5-13. | 3.9 | 42 |
| 75 | Kinetics of NOxAbsorption into (NH4)2SO3Solution in an Ammonia-Based Wet Flue Gas Desulfurization Process. Energy & Fuels, 2010, 24, 5876-5882. | 2.5 | 41 |
| 76 | Numerical simulation of selective catalytic reduction of NO and SO2 oxidation in monolith catalyst. Chemical Engineering Journal, 2019, 361, 874-884. | 6.6 | 41 |
| 77 | Transient Kinetic Analysis of Low-Temperature NH<sub>3</sub>-SCR over Cu-CHA Catalysts Reveals a Quadratic Dependence of Cu Reduction Rates on Cu<sup>II</sup>. ACS Catalysis, 2021, 11, 4821-4831. | 5.5 | 41 |
| 78 | Study on Catalytic Soot Oxidation over Spinel Type ACo2O4 (A = Co, Ni, Cu, Zn) Catalysts. Aerosol and Air Quality Research, 2017, 17, 2317-2327. | 0.9 | 40 |
| 79 | Numerical simulation of temperature effect on particles behavior via electrostatic precipitators. Applied Thermal Engineering, 2015, 88, 127-139. | 3.0 | 39 |
| 80 | Experimental investigation on charging characteristics and penetration efficiency of PM2.5 emitted from coal combustion enhanced by positive corona pulsed ESP. Journal of Electrostatics, 2009, 67, 799-806. | 1.0 | 38 |
| 81 | Experimental Study on Electrostatic Precipitation of Low-Resistivity High-Carbon Fly Ash at High Temperature. Energy & Fuels, 2017, 31, 6266-6273. | 2.5 | 38 |
| 82 | Assessment of winter air pollution episodes using long-range transport modeling in Hangzhou, China, during World Internet Conference, 2015. Environmental Pollution, 2018, 236, 550-561. | 3.7 | 38 |
| 83 | New insight into alkali resistance and low temperature activation on vanadia-titania catalysts for selective catalytic reduction of NO. Applied Surface Science, 2019, 466, 99-109. | 3.1 | 38 |
| 84 | 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>. Catalysis Science and Technology, 2015, 5, 1267-1279. | 2.1 | 37 |
| 85 | Controllable synthesis of hierarchical MnO x /TiO 2 composite nanofibers for complete oxidation of low-concentration acetone. Journal of Hazardous Materials, 2017, 337, 105-114. | 6.5 | 37 |
| 86 | Experimental study on the evaporation and chlorine migration of desulfurization wastewater in flue gas. Environmental Science and Pollution Research, 2019, 26, 4791-4800. | 2.7 | 37 |
| 87 | Experimental study on the removal of SO3 from coal-fired flue gas by alkaline sorbent. Fuel, 2020, 259, 116306. | 3.4 | 37 |
| 88 | Simulation of SO2 absorption and performance enhancement of wet flue gas desulfurization system. Chemical Engineering Research and Design, 2021, 150, 453-463. | 2.7 | 37 |
| 89 | Unraveling the Hydrolysis of Z<sub>2</sub>Cu<sup>2+</sup> to ZCu<sup>2+</sup>(OH)<sup>â^'</sup> and Its Consequences for the Low-Temperature Selective Catalytic Reduction of NO on Cu-CHA Catalysts. ACS Catalysis, 2021, 11, 11616-11625. | 5.5 | 37 |
| 90 | Bimetallic ceriumâ€“copper nanoparticles embedded in ordered mesoporous carbons as effective catalysts for the selective catalytic reduction of NO with NH3. Journal of Colloid and Interface Science, 2015, 456, 66-75. | 5.0 | 36 |

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|---|---|---|---|
| 91 | Synthesis and characterization of a single phase zeolite A using coal fly ash. RSC Advances, 2018, 8, 42200-42209. | 1.7 | 36 |
| 92 | KOH-activated hydrochar with engineered porosity as sustainable adsorbent for volatile organic compounds. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 588, 124372. | 2.3 | 36 |
| 93 | Fine particle migration and collection in a wet electrostatic precipitator. Journal of the Air and Waste Management Association, 2017, 67, 498-506. | 0.9 | 35 |
| 94 | Chemical characteristics and sources of PM1 during the 2016 summer in Hangzhou. Environmental Pollution, 2018, 232, 42-54. | 3.7 | 35 |
| 95 | Meteorological and chemical impacts on PM2.5 during a haze episode in a heavily polluted basin city of eastern China. Environmental Pollution, 2019, 250, 520-529. | 3.7 | 35 |
| 96 | Promotional effect of doping Cu into cerium-titanium binary oxides catalyst for deep oxidation of gaseous dichloromethane. Chemosphere, 2019, 214, 553-562. | 4.2 | 35 |
| 97 | Experimental investigation on the characteristics of ash layers in a high-temperature wireâ€“cylinder electrostatic precipitator. Separation and Purification Technology, 2016, 159, 135-146. | 3.9 | 34 |
| 98 | La0.8M0.2MnO3 (M = Ba, Ca, Ce, Mg and Sr) perovskite catalysts for plasma-catalytic oxidation of ethyl acetate. Catalysis Communications, 2017, 92, 35-39. | 1.6 | 34 |
| 99 | Evolution of Condensable Fine Particle Size Distribution in Simulated Flue Gas by External Regulation for Growth Enhancement. Environmental Science & Technology, 2020, 54, 3840-3848. | 4.6 | 34 |
| 100 | Optimizing magnetic functionalization conditions for efficient preparation of magnetic biochar and adsorption of Pb(II) from aqueous solution. Science of the Total Environment, 2022, 806, 151442. | 3.9 | 33 |
| 101 | Removal of NOx with radical injection caused by corona discharge. Fuel, 2004, 83, 1349-1355. | 3.4 | 32 |
| 102 | Naphthalene decomposition in a DC corona radical shower discharge. Journal of Zhejiang University: Science A, 2011, 12, 71-77. | 1.3 | 32 |
| 103 | Numerical simulation of particle migration in electrostatic precipitator with different electrode configurations. Powder Technology, 2020, 361, 238-247. | 2.1 | 32 |
| 104 | An experimental investigation of electrostatic precipitation in a wireâ€“cylinder configuration at high temperatures. Powder Technology, 2015, 269, 166-177. | 2.1 | 31 |
| 105 | Smog chamber study of the role of NH3 in new particle formation from photo-oxidation of aromatic hydrocarbons. Science of the Total Environment, 2018, 619-620, 927-937. | 3.9 | 31 |
| 106 | Insight into the significant roles of microstructures and functional groups on carbonaceous surfaces for acetone adsorption. RSC Advances, 2018, 8, 21541-21550. | 1.7 | 31 |
| 107 | Modeling and optimization of wet flue gas desulfurization system based on a hybrid modeling method. Journal of the Air and Waste Management Association, 2019, 69, 565-575. | 0.9 | 31 |
| 108 | Hg0-temperature-programmed surface reaction and its application on the investigation of metal oxides for Hg0 capture. Fuel, 2016, 181, 1089-1094. | 3.4 | 30 |

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|---|---|---|---|
| 109 | Synergy of vanadia and ceria in the reaction mechanism of low-temperature selective catalytic reduction of NOx by NH3. Journal of Catalysis, 2020, 391, 145-154. | 3.1 | 30 |
| 110 | Low temperature selective catalytic reduction of NO and NO2 with NH3 over activated carbon-supported vanadium oxide catalyst. Catalysis Today, 2011, 175, 164-170. | 2.2 | 29 |
| 111 | Adsorption of NO on ordered mesoporous carbon and its improvement by cerium. RSC Advances, 2014, 4, 16281. | 1.7 | 29 |
| 112 | Molecular Transformations of Arsenic Species in the Flue Gas of Typical Power Plants: A Density Functional Theory Study. Energy & Fuels, 2016, 30, 4209-4214. | 2.5 | 29 |
| 113 | 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. Energy & Fuels, 2018, 32, 5338-5344. | 2.5 | 29 |
| 114 | Insights into the role of particle space charge effects in particle precipitation processes in electrostatic precipitator. Powder Technology, 2018, 339, 606-614. | 2.1 | 29 |
| 115 | Characteristics and Uncertainty of Industrial VOCs Emissions in China. Aerosol and Air Quality Research, 2015, 15, 1045-1058. | 0.9 | 29 |
| 116 | Experimental Study on Removal Characteristics of SO<sub>3</sub> by Wet Flue Gas Desulfurization Absorber. Energy & Fuels, 2018, 32, 6031-6038. | 2.5 | 28 |
| 117 | Cost estimate of the multi-pollutant abatement in coal-fired power sector in China. Energy, 2018, 161, 523-535. | 4.5 | 28 |
| 118 | Particle removal enhancement in a high-temperature electrostatic precipitator for glass furnace. Powder Technology, 2017, 319, 154-162. | 2.1 | 27 |
| 119 | Predicting particle collection performance of a wet electrostatic precipitator under varied conditions with artificial neural networks. Powder Technology, 2021, 377, 632-639. | 2.1 | 27 |
| 120 | Removal of NOx from wet flue gas by corona discharge. Fuel, 2004, 83, 1251-1255. | 3.4 | 26 |
| 121 | Characteristics of DC discharge in a wire-cylinder configuration at high ambient temperatures. Journal of Electrostatics, 2014, 72, 13-21. | 1.0 | 26 |
| 122 | Promotion effect of KOH surface etching on sucrose-based hydrochar for acetone adsorption. Applied Surface Science, 2019, 496, 143617. | 3.1 | 26 |
| 123 | Controllable synthesis of novel hierarchical V<sub>2</sub>O<sub>5</sub>/TiO<sub>2</sub> nanofibers with improved acetone oxidation performance. RSC Advances, 2015, 5, 30416-30424. | 1.7 | 25 |
| 124 | Electrospinning synthesis of vanadiumâ€“TiO2â€“carbon composite nanofibrous membranes as effective catalysts for the complete oxidation of low-concentration acetone. Applied Catalysis A: General, 2015, 507, 99-108. | 2.2 | 25 |
| 125 | Manganese-cerium oxide catalysts prepared by non-thermal plasma for NO oxidation: Effect of O 2 in discharge atmosphere. Applied Surface Science, 2017, 416, 78-85. | 3.1 | 25 |
| 126 | Microwave-induced activation of additional active edge sites on the MoS 2 surface for enhanced Hg 0 capture. Applied Surface Science, 2017, 420, 439-445. | 3.1 | 25 |

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| 127 | Speciation Characteristics and Mobility of Trace Elements Across Ultralow Emission Air Pollution Control Devices. Energy & Fuels, 2017, 31, 13963-13971. | 2.5 | 25 |
| 128 | Effect of dust layer in electrostatic precipitators on discharge characteristics and particle removal. Fuel, 2020, 278, 118335. | 3.4 | 25 |
| 129 | Adsorption kinetics of NO on ordered mesoporous carbon (OMC) and cerium-containing OMC (Ce-OMC). Applied Surface Science, 2014, 317, 26-34. | 3.1 | 24 |
| 130 | Developments in Unipolar Charging of Airborne Particles: Theories, Simulations and Measurements. Aerosol and Air Quality Research, 2016, 16, 3037-3054. | 0.9 | 24 |
| 131 | Elemental Mercury Capture from Syngas by Novel High-Temperature Sorbent Based on Pdâ€“Ce Binary Metal Oxides. Industrial & Engineering Chemistry Research, 2015, 54, 3678-3684. | 1.8 | 23 |
| 132 | Development of back corona discharge in a wire-cylinder electrostatic precipitator at high temperatures. Powder Technology, 2015, 286, 789-797. | 2.1 | 23 |
| 133 | Sulfuric Acid Aerosol Formation and Collection by Corona Discharge in a Wet Electrostatic Precipitator. Energy & Fuels, 2017, 31, 8400-8406. | 2.5 | 23 |
| 134 | Different reactive behaviours of dichloromethane over anatase TiO2 supported RuO2 and V2O5. Catalysis Today, 2020, 355, 349-357. | 2.2 | 23 |
| 135 | Fast Evolution of Sulfuric Acid Aerosol Activated by External Fields for Enhanced Emission Control. Environmental Science & Technology, 2020, 54, 3022-3031. | 4.6 | 23 |
| 136 | Effect of multi-pollutant on the catalytic oxidation of dichloromethane over RuO2-WO3/Sn0.2Ti0.8O2 catalyst. Fuel, 2020, 278, 118207. | 3.4 | 22 |
| 137 | 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. RSC Advances, 2016, 6, 102436-102443. | 1.7 | 21 |
| 138 | Promotional effect of TiO2 on quinoline hydrodenitrogenation activity over Pt/Î³-Al2O3 catalysts. Chemical Engineering Science, 2019, 207, 1085-1095. | 1.9 | 21 |
| 139 | Improvement of fuel sources and energy products flexibility in coal power plants via energy-cyber-physical-systems approach. Applied Energy, 2019, 254, 113554. | 5.1 | 21 |
| 140 | Integration of machine learning approaches for accelerated discovery of transition-metal dichalcogenides as Hg0 sensing materials. Applied Energy, 2019, 254, 113651. | 5.1 | 21 |
| 141 | Effect of KCl on the selective catalytic reduction of NO with NH<sub>3</sub> over vanadiaâ€based catalysts for biomass combustion. Environmental Progress and Sustainable Energy, 2014, 33, 390-395. | 1.3 | 20 |
| 142 | CFD simulation of high-temperature effect on EHD characteristics in a wire-plate electrostatic precipitator. Chinese Journal of Chemical Engineering, 2015, 23, 633-640. | 1.7 | 20 |
| 143 | Development and Experimental Evaluation of a Continuous Monitor for SO<sub>3</sub> Measurement. Energy & Fuels, 2017, 31, 9684-9692. | 2.5 | 20 |
| 144 | Measurement and prediction of fly ash resistivity over a wide range of temperature. Fuel, 2018, 216, 673-680. | 3.4 | 20 |

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|---|---|---|---|
| 145 | Balance and stability between particle collection and re-entrainment inawide temperature-range electrostatic precipitator. Powder Technology, 2018, 340, 543-552. | 2.1 | 20 |
| 146 | Evaporation and concentration of desulfurization wastewater with waste heat from coal-fired power plants. Environmental Science and Pollution Research, 2019, 26, 27494-27504. | 2.7 | 20 |
| 147 | Study of the Promotion Effect of Iron on Supported Manganese Catalysts for NO Oxidation. Aerosol and Air Quality Research, 2014, 14, 1038-1046. | 0.9 | 20 |
| 148 | Accelerated identification of high-performance catalysts for low-temperature NH<sub>3</sub>-SCR by machine learning. Journal of Materials Chemistry A, 2021, 9, 23850-23859. | 5.2 | 19 |
| 149 | Dynamic Binuclear Cu<sup>II</sup> Sites in the Reduction Half-Cycle of Low-Temperature NH<sub>3</sub>â€“SCR over Cu-CHA Catalysts. ACS Catalysis, 2022, 12, 5263-5274. | 5.5 | 19 |
| 150 | A DFT study on the behavior of NO2 in the selective catalytic reduction of nitric oxides with ammonia on a V2O5 catalyst surface. Journal of Molecular Catalysis A, 2010, 317, 46-53. | 4.8 | 18 |
| 151 | Effect of gasâ€“liquid phase compositions on NO2 and NO absorption into ammonium-sulfite and bisulfite solutions. Fuel Processing Technology, 2011, 92, 1506-1512. | 3.7 | 18 |
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