

Qingxin

List of Publications by Year in descending order

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72
papers

3,155
citations

172207

29
h-index

168136

53
g-index

88
all docs

88
docs citations

88
times ranked

3107
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Application of smog chambers in atmospheric process studies. National Science Review, 2022, 9, nwab103. | 4.6 | 21 |
| 2 | Influence of photochemical loss of volatile organic compounds on understanding ozone formation mechanism. Atmospheric Chemistry and Physics, 2022, 22, 4841-4851. | 1.9 | 26 |
| 3 | Characterization of an indoor environmental chamber and identification of C ₁ –C ₄ OVOCs during isoprene ozonolysis. Indoor and Built Environment, 2021, 30, 554-564. | 1.5 | 3 |
| 4 | Significant concurrent decrease in PM _{2.5} and NO ₂ concentrations in China during COVID-19 epidemic. Journal of Environmental Sciences, 2021, 99, 346-353. | 3.2 | 126 |
| 5 | Measurement report: Effects of photochemical aging on the formation and evolution of summertime secondary aerosol in Beijing. Atmospheric Chemistry and Physics, 2021, 21, 1341-1356. | 1.9 | 18 |
| 6 | Secondary Organic Aerosol Formation Potential from Ambient Air in Beijing: Effects of Atmospheric Oxidation Capacity at Different Pollution Levels. Environmental Science & Technology, 2021, 55, 4565-4572. | 4.6 | 26 |
| 7 | The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing New Particle Formation in Beijing. Geophysical Research Letters, 2021, 48, e2020GL091944. | 1.5 | 53 |
| 8 | Increased primary and secondary H ₂ SO ₄ showing the opposing roles in secondary organic aerosol formation from ethyl methacrylate ozonolysis. Atmospheric Chemistry and Physics, 2021, 21, 7099-7112. | 1.9 | 1 |
| 9 | Comprehensive Study about the Photolysis of Nitrates on Mineral Oxides. Environmental Science & Technology, 2021, 55, 8604-8612. | 4.6 | 25 |
| 10 | Effect of relative humidity on SOA formation from aromatic hydrocarbons: Implications from the evolution of gas- and particle-phase species. Science of the Total Environment, 2021, 773, 145015. | 3.9 | 34 |
| 11 | Measurement of heterogeneous uptake of NO ₂ on inorganic particles, sea water and urban grime. Journal of Environmental Sciences, 2021, 106, 124-135. | 3.2 | 17 |
| 12 | Mechanistic Study of the Aqueous Reaction of Organic Peroxides with HSO ₃ [•] on the Surface of a Water Droplet. Angewandte Chemie - International Edition, 2021, 60, 20200-20203. | 7.2 | 9 |
| 13 | Key Factors Determining Heterogeneous Uptake Kinetics of NO ₂ Onto Alumina: Implication for the Linkage Between Laboratory Work and Modeling Study. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034694. | 1.2 | 6 |
| 14 | Novel CeMnOx catalyst for highly efficient catalytic decomposition of ozone. Applied Catalysis B: Environmental, 2020, 264, 118498. | 10.8 | 47 |
| 15 | Large Variations in Hygroscopic Properties of Unconventional Mineral Dust. ACS Earth and Space Chemistry, 2020, 4, 1823-1830. | 1.2 | 7 |
| 16 | Air Pollutant Correlations in China: Secondary Air Pollutant Responses to NO _x and SO ₂ Control. Environmental Science and Technology Letters, 2020, 7, 695-700. | 3.9 | 113 |
| 17 | Understanding the knowledge gaps between air pollution controls and health impacts including pathogen epidemic. Environmental Research, 2020, 189, 109949. | 3.7 | 23 |
| 18 | Efficient Conversion of NO to NO ₂ on SO ₂ -Aged MgO under Atmospheric Conditions. Environmental Science & Technology, 2020, 54, 11848-11856. | 4.6 | 15 |

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|----|--|-----|-----------|
| 19 | Comprehensive characterization of hygroscopic properties of methanesulfonates. <i>Atmospheric Environment</i> , 2020, 224, 117349. | 1.9 | 5 |
| 20 | Impacts of Mixed Gaseous and Particulate Pollutants on Secondary Particle Formation during Ozonolysis of Butyl Vinyl Ether. <i>Environmental Science & Technology</i> , 2020, 54, 3909-3919. | 4.6 | 4 |
| 21 | The adsorption and oxidation of SO ₂ on MgO surface: experimental and DFT calculation studies. <i>Environmental Science: Nano</i> , 2020, 7, 1092-1101. | 2.2 | 18 |
| 22 | Chemical characterization of submicron aerosol in summertime Beijing: A case study in southern suburbs in 2018. <i>Chemosphere</i> , 2020, 247, 125918. | 4.2 | 17 |
| 23 | Nanodispersed Mn ₃ O ₄ /Al ₂ O ₃ for NO ₂ Elimination at Room Temperature. <i>Environmental Science & Technology</i> , 2019, 53, 10855-10862. | 4.6 | 15 |
| 24 | Oxidation Potential Reduction of Carbon Nanomaterials during Atmospheric-Relevant Aging: Role of Surface Coating. <i>Environmental Science & Technology</i> , 2019, 53, 10454-10461. | 4.6 | 13 |
| 25 | The effect of water on the heterogeneous reactions of SO ₂ and NH ₃ on the surfaces of Fe ₂ O ₃ and Al ₂ O ₃ . <i>Environmental Science: Nano</i> , 2019, 6, 2749-2758. | 2.2 | 30 |
| 26 | Impacts of SO ₂ , Relative Humidity, and Seed Acidity on Secondary Organic Aerosol Formation in the Ozonolysis of Butyl Vinyl Ether. <i>Environmental Science & Technology</i> , 2019, 53, 8845-8853. | 4.6 | 22 |
| 27 | A review of experimental techniques for aerosol hygroscopicity studies. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12631-12686. | 1.9 | 80 |
| 28 | Contrary Role of H ₂ O and O ₂ in the Kinetics of Heterogeneous Photochemical Reactions of SO ₂ on TiO ₂ . <i>Journal of Physical Chemistry A</i> , 2019, 123, 1311-1318. | 1.1 | 26 |
| 29 | Significant source of secondary aerosol: formation from gasoline evaporative emissions in the presence of SO ₂ and NH ₃ . <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8063-8081. | 1.9 | 52 |
| 30 | Enhancement of aqueous sulfate formation by the coexistence of NO ₂ /NH ₃ under high ionic strengths in aerosol water. <i>Environmental Pollution</i> , 2019, 252, 236-244. | 3.7 | 49 |
| 31 | A Comprehensive Study about the Hygroscopic Behavior of Mixtures of Oxalic Acid and Nitrate Salts: Implication for the Occurrence of Atmospheric Metal Oxalate Complex. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1216-1225. | 1.2 | 16 |
| 32 | Water adsorption and hygroscopic growth of six anemophilous pollen species: the effect of temperature. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2247-2258. | 1.9 | 35 |
| 33 | Effects of NO ₂ and C ₃ H ₆ on the heterogeneous oxidation of SO ₂ on TiO ₂ in the presence or absence of UV-Vis irradiation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14777-14788. | 1.9 | 21 |
| 34 | A laboratory study on the hygroscopic behavior of H ₂ C ₂ O ₄ -containing mixed particles. <i>Atmospheric Environment</i> , 2019, 200, 34-39. | 1.9 | 7 |
| 35 | Differences of the oxidation process and secondary organic aerosol formation at low and high precursor concentrations. <i>Journal of Environmental Sciences</i> , 2019, 79, 256-263. | 3.2 | 29 |
| 36 | Role of NH ₃ in the Heterogeneous Formation of Secondary Inorganic Aerosols on Mineral Oxides. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6311-6320. | 1.1 | 25 |

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|----|--|-----|-----------|
| 37 | SO ₂ Initiates the Efficient Conversion of NO ₂ to HONO on MgO Surface. Environmental Science & Technology, 2017, 51, 3767-3775. | 4.6 | 76 |
| 38 | Heterogeneous reaction of SO ₂ with soot: The roles of relative humidity and surface composition of soot in surface sulfate formation. Atmospheric Environment, 2017, 152, 465-476. | 1.9 | 68 |
| 39 | Structure-activity relationship of surface hydroxyl groups during NO ₂ adsorption and transformation on TiO ₂ nanoparticles. Environmental Science: Nano, 2017, 4, 2388-2394. | 2.2 | 49 |
| 40 | Heterogeneous Reaction of SO ₂ on Manganese Oxides: the Effect of Crystal Structure and Relative Humidity. Scientific Reports, 2017, 7, 4550. | 1.6 | 56 |
| 41 | Influence of sulfur in fuel on the properties of diffusion flame soot. Atmospheric Environment, 2016, 142, 383-392. | 1.9 | 17 |
| 42 | Distinct potential aerosol masses under different scenarios of transport at a suburban site of Beijing. Journal of Environmental Sciences, 2016, 39, 52-61. | 3.2 | 13 |
| 43 | Synergistic formation of sulfate and ammonium resulting from reaction between SO ₂ and NH ₃ on typical mineral dust. Physical Chemistry Chemical Physics, 2016, 18, 956-964. | 1.3 | 66 |
| 44 | Characteristics and formation mechanism of continuous hazes in China: a case study during the autumn of 2014 in the North China Plain. Atmospheric Chemistry and Physics, 2015, 15, 8165-8178. | 1.9 | 192 |
| 45 | Laboratory study on OH-initiated degradation kinetics of dehydroabiatic acid. Physical Chemistry Chemical Physics, 2015, 17, 10953-10962. | 1.3 | 14 |
| 46 | Effect of aluminium dust on secondary organic aerosol formation in m-xylene/NO _x photo-oxidation. Science China Earth Sciences, 2015, 58, 245-254. | 2.3 | 8 |
| 47 | Secondary aerosol formation and oxidation capacity in photooxidation in the presence of Al ₂ O ₃ seed particles and SO ₂ . Science China Chemistry, 2015, 58, 1426-1434. | 4.2 | 14 |
| 48 | Heterogeneous Kinetics of <i>cis</i> -Pinonic Acid with Hydroxyl Radical under Different Environmental Conditions. Journal of Physical Chemistry A, 2015, 119, 6583-6593. | 1.1 | 22 |
| 49 | Current progress towards the heterogeneous reactions on mineral dust and soot. Chinese Science Bulletin, 2015, 60, 122-136. | 0.4 | 1 |
| 50 | Hygroscopicity of particles generated from photooxidation of α -pinene under different oxidation conditions in the presence of sulfate seed aerosols. Journal of Environmental Sciences, 2014, 26, 129-139. | 3.2 | 10 |
| 51 | Degradation kinetics of levoglucosan initiated by hydroxyl radical under different environmental conditions. Atmospheric Environment, 2014, 91, 32-39. | 1.9 | 129 |
| 52 | Mineral dust and NO _x promote the conversion of SO ₂ to sulfate in heavy pollution days. Scientific Reports, 2014, 4, 4172. | 1.6 | 426 |
| 53 | Effect of mineral dust on secondary organic aerosol yield and aerosol size in α -pinene/NO _x photo-oxidation. Atmospheric Environment, 2013, 77, 781-789. | 1.9 | 35 |
| 54 | Heterogeneous photochemical reaction of ozone with anthracene adsorbed on mineral dust. Atmospheric Environment, 2013, 72, 165-170. | 1.9 | 15 |

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|----|---|-----|-----------|
| 55 | Heterogeneous and multiphase formation pathways of gypsum in the atmosphere. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19196. | 1.3 | 25 |
| 56 | Laboratory Study on the Hygroscopic Behavior of External and Internal C ₂ and C ₄ Dicarboxylic Acid-NaCl Mixtures. <i>Environmental Science & Technology</i> , 2013, 47, 130827153621004. | 4.6 | 27 |
| 57 | Review of heterogeneous photochemical reactions of NO _y on aerosol – A possible daytime source of nitrous acid (HONO) in the atmosphere. <i>Journal of Environmental Sciences</i> , 2013, 25, 326-334. | 3.2 | 36 |
| 58 | Hygroscopic properties of oxalic acid and atmospherically relevant oxalates. <i>Atmospheric Environment</i> , 2013, 69, 281-288. | 1.9 | 46 |
| 59 | Alumina with Various Pore Structures Prepared by Spray Pyrolysis of Inorganic Aluminum Precursors. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13377-13383. | 1.8 | 6 |
| 60 | Differences in the reactivity of ammonium salts with methylamine. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4855-4865. | 1.9 | 30 |
| 61 | Heterogeneous reaction of acetic acid on MgO, γ -Al ₂ O ₃ , and CaCO ₃ and the effect on the hygroscopic behaviour of these particles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8403. | 1.3 | 71 |
| 62 | Synergistic reaction between SO ₂ and NO ₂ on mineral oxides: a potential formation pathway of sulfate aerosol. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1668-1676. | 1.3 | 143 |
| 63 | Heterogeneous Uptake of Amines by Citric Acid and Humic Acid. <i>Environmental Science & Technology</i> , 2012, 46, 11112-11118. | 4.6 | 34 |
| 64 | Synergistic effect in the humidifying process of atmospheric relevant calcium nitrate, calcite and oxalic acid mixtures. <i>Atmospheric Environment</i> , 2012, 50, 97-102. | 1.9 | 34 |
| 65 | A case study of Asian dust storm particles: Chemical composition, reactivity to SO ₂ and hygroscopic properties. <i>Journal of Environmental Sciences</i> , 2012, 24, 62-71. | 3.2 | 43 |
| 66 | In situ DRIFTS study of hygroscopic behavior of mineral aerosol. <i>Journal of Environmental Sciences</i> , 2010, 22, 555-560. | 3.2 | 64 |
| 67 | Mesoporous transition alumina with uniform pore structure synthesized by alumisol spray pyrolysis. <i>Chemical Engineering Journal</i> , 2010, 163, 133-142. | 6.6 | 33 |
| 68 | The Utilization of Physisorption Analyzer for Studying the Hygroscopic Properties of Atmospheric Relevant Particles. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4232-4237. | 1.1 | 30 |
| 69 | Structural and hygroscopic changes of soot during heterogeneous reaction with O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10896. | 1.3 | 86 |
| 70 | Comparative study of the effect of water on the heterogeneous reactions of carbonyl sulfide on the surface of γ -Al ₂ O ₃ , γ -Al ₂ O ₃ /O ₃ , and MgO. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6273-6286. | 1.9 | 36 |
| 71 | Synergistic Effect between NO ₂ and SO ₂ in Their Adsorption and Reaction on γ -Alumina. <i>Journal of Physical Chemistry A</i> , 2008, 112, 6630-6635. | 1.1 | 110 |
| 72 | Temperature Dependence of the Heterogeneous Reaction of Carbonyl Sulfide on Magnesium Oxide. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2820-2826. | 1.1 | 32 |