

Xuan Wang

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.

30
papers

863
citations

11
h-index

29
g-index

52
ext. papers

1,343
ext. citations

7.4
avg, IF

4.27
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 30 | Numerical Simulation of Topography Impact on Transport and Source Apportionment on PM _{2.5} in a Polluted City in Fenwei Plain. <i>Atmosphere</i> , 2022 , 13, 233 | 2.7 | |
| 29 | N ₂ O ₅ uptake onto saline mineral dust: a potential missing source of tropospheric ClNO ₂ in inland China. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 1845-1859 | 6.8 | 1 |
| 28 | Comprehensive chemical characterization of gaseous I/SVOC emissions from heavy-duty diesel vehicles using two-dimensional gas chromatography time-of-flight mass spectrometry.. <i>Environmental Pollution</i> , 2022 , 119284 | 9.3 | 0 |
| 27 | Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM _{2.5}): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16775-16791 | 6.8 | 4 |
| 26 | Global Impact of Lightning-Produced Oxidants. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095740 | 4.9 | 2 |
| 25 | Control of particulate nitrate air pollution in China. <i>Nature Geoscience</i> , 2021 , 14, 389-395 | 18.3 | 28 |
| 24 | Heterogeneous Nitrate Production Mechanisms in Intense Haze Events in the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034688 | 4.4 | 5 |
| 23 | Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093808 | 4.9 | 2 |
| 22 | Improved Mechanistic Model of the Atmospheric Redox Chemistry of Mercury. <i>Environmental Science & Technology</i> , 2021 , 55, 14445-14456 | 10.3 | 9 |
| 21 | Understanding Sources of Atmospheric Hydrogen Chloride in Coastal Spring and Continental Winter. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 2507-2516 | 3.2 | 2 |
| 20 | Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 13973-13996 | 6.8 | 7 |
| 19 | Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , 2021 , 14, 77-84 | 18.3 | 37 |
| 18 | Effects of Anthropogenic Chlorine on PM and Ozone Air Quality in China. <i>Environmental Science & Technology</i> , 2020 , 54, 9908-9916 | 10.3 | 18 |
| 17 | Effects of Sea Salt Aerosol Emissions for Marine Cloud Brightening on Atmospheric Chemistry: Implications for Radiative Forcing. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085838 | 4.9 | 3 |
| 16 | Global modeling of cloud water acidity, precipitation acidity, and acid inputs to ecosystems. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12223-12245 | 6.8 | 9 |
| 15 | Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7753-7781 | 6.8 | 18 |
| 14 | An adaptive method for speeding up the numerical integration of chemical mechanisms in atmospheric chemistry models: application to GEOS-Chem version 12.0.0. <i>Geoscientific Model Development</i> , 2020 , 13, 2475-2486 | 6.3 | 4 |

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| 13 | Lifecycle of light-absorbing carbonaceous aerosols in the atmosphere. <i>Npj Climate and Atmospheric Science</i> , 2020 , 3, | 8 | 29 |
| 12 | Spatial and temporal variability of brown carbon in United States: implications for direct radiative effects. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090332 | 4.9 | 7 |
| 11 | Fine particulate matter (PM _{2.5}) trends in China, 2013–2018: separating contributions from anthropogenic emissions and meteorology. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11031-11041 | 6.8 | 229 |
| 10 | Effect of sea salt aerosol on tropospheric bromine chemistry. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6497-6507 | 6.8 | 22 |
| 9 | Fine particulate matter (PM _{2.5}) trends in China, 2013–2018: contributions from meteorology 2019 , | | 2 |
| 8 | The role of chlorine in global tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 3981-4003 | 6.8 | 96 |
| 7 | Exploring the observational constraints on the simulation of brown carbon. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 635-653 | 6.8 | 80 |
| 6 | The role of chlorine in tropospheric chemistry 2018 , | | 1 |
| 5 | Effect of sea-salt aerosol on tropospheric bromine chemistry 2018 , | | 1 |
| 4 | Deriving brown carbon from multiwavelength absorption measurements: method and application to AERONET and Aethalometer observations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12733-12752 | 6.8 | 81 |
| 3 | Exploiting simultaneous observational constraints on mass and absorption to estimate the global direct radiative forcing of black carbon and brown carbon. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10989-11010 | 6.8 | 158 |
| 2 | Constraining remote oxidation capacity with ATom observations | | 2 |
| 1 | Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants | | 2 |