

Haichao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,078
citations

279798

23
h-index

243625

44
g-index

93
all docs

93
docs citations

93
times ranked

1641
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Wintertime photochemistry in Beijing: observations of RO_2 and HO_2 radical concentrations in the North China Plain during the BEST-ONE campaign. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12391-12411. | 4.9 | 177 |
| 2 | High NO_2 Concentrations Observed in Urban Beijing: Implications of a Large Nitrate Formation Pathway. <i>Environmental Science and Technology Letters</i> , 2017, 4, 416-420. | 8.7 | 167 |
| 3 | Aerosol Liquid Water Driven by Anthropogenic Inorganic Salts: Implying Its Key Role in Haze Formation over the North China Plain. <i>Environmental Science and Technology Letters</i> , 2018, 5, 160-166. | 8.7 | 165 |
| 4 | Fast Photochemistry in Wintertime Haze: Consequences for Pollution Mitigation Strategies. <i>Environmental Science & Technology</i> , 2019, 53, 10676-10684. | 10.0 | 147 |
| 5 | Exploring atmospheric free-radical chemistry in China: the self-cleansing capacity and the formation of secondary air pollution. <i>National Science Review</i> , 2019, 6, 579-594. | 9.5 | 123 |
| 6 | Explicit diagnosis of the local ozone production rate and the ozone- NO_x -VOC sensitivities. <i>Science Bulletin</i> , 2018, 63, 1067-1076. | 9.0 | 116 |
| 7 | An explicit study of local ozone budget and NO_x -VOCs sensitivity in Shenzhen China. <i>Atmospheric Environment</i> , 2020, 224, 117304. | 4.1 | 85 |
| 8 | Fast particulate nitrate formation via N_2O_5 uptake aloft in winter in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10483-10495. | 4.9 | 82 |
| 9 | A Comprehensive Model Test of the HONO Sources Constrained to Field Measurements at Rural North China Plain. <i>Environmental Science & Technology</i> , 2019, 53, 3517-3525. | 10.0 | 81 |
| 10 | The trend of surface ozone in Beijing from 2013 to 2019: Indications of the persisting strong atmospheric oxidation capacity. <i>Atmospheric Environment</i> , 2020, 242, 117801. | 4.1 | 72 |
| 11 | Field Determination of Nitrate Formation Pathway in Winter Beijing. <i>Environmental Science & Technology</i> , 2020, 54, 9243-9253. | 10.0 | 69 |
| 12 | Development of a portable cavity-enhanced absorption spectrometer for the measurement of ambient NO_3 and N_2O_5 : experimental setup, lab characterizations, and field applications in a polluted urban environment. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1465-1479. | 3.1 | 65 |
| 13 | Efficient N_2O_5 uptake and NO_3 oxidation in the outflow of urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9705-9721. | 4.9 | 64 |
| 14 | Chlorine oxidation of VOCs at a semi-rural site in Beijing: significant chlorine liberation from ClNO_2 and subsequent gas- and particle-phase VOC production. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13013-13030. | 4.9 | 54 |
| 15 | Oral administration of liquid iron preparation containing excess iron induces intestine and liver injury, impairs intestinal barrier function and alters the gut microbiota in rats. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 47, 12-20. | 3.0 | 52 |
| 16 | Model simulation of NO_3 , N_2O_5 and ClNO_2 at a rural site in Beijing during CAREBeijing-2006. <i>Atmospheric Research</i> , 2017, 196, 97-107. | 4.1 | 35 |
| 17 | NO_3 and N_2O_5 chemistry at a suburban site during the EXPLORE-YRD campaign in 2018. <i>Atmospheric Environment</i> , 2020, 224, 117180. | 4.1 | 28 |
| 18 | Observations and modeling of OH and HO_2 radicals in Chengdu, China in summer 2019. <i>Science of the Total Environment</i> , 2021, 772, 144829. | 8.0 | 28 |

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|----|---|------|-----------|
| 19 | Wintertime N ₂ O ₅ uptake coefficients over the North China Plain. <i>Science Bulletin</i> , 2020, 65, 765-774. | 9.0 | 27 |
| 20 | Assessing the Ratios of Formaldehyde and Glyoxal to NO ₂ as Indicators of O ₃ –NO _x –VOC Sensitivity. <i>Environmental Science & Technology</i> , 2021, 55, 10935-10945. | 10.0 | 27 |
| 21 | The formation and mitigation of nitrate pollution: comparison between urban and suburban environments. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4539-4556. | 4.9 | 27 |
| 22 | An IBBCEAS system for atmospheric measurements of glyoxal and methylglyoxal in the presence of high NO ₂ concentrations. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4439-4453. | 3.1 | 25 |
| 23 | Uptake of Water-soluble Gas-phase Oxidation Products Drives Organic Particulate Pollution in Beijing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091351. | 4.0 | 24 |
| 24 | Spatial characteristics of the nighttime oxidation capacity in the Yangtze River Delta, China. <i>Atmospheric Environment</i> , 2019, 208, 150-157. | 4.1 | 22 |
| 25 | Meteorology and topographic influences on nocturnal ozone increase during the summertime over Shaoguan, China. <i>Atmospheric Environment</i> , 2021, 256, 118459. | 4.1 | 22 |
| 26 | Direct evidence of local photochemical production driven ozone episode in Beijing: A case study. <i>Science of the Total Environment</i> , 2021, 800, 148868. | 8.0 | 21 |
| 27 | A critical review of sulfate aerosol formation mechanisms during winter polluted periods. <i>Journal of Environmental Sciences</i> , 2023, 123, 387-399. | 6.1 | 20 |
| 28 | OH and HO ₂ radical chemistry at a suburban site during the EXPLORE-YRD campaign in 2018. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7005-7028. | 4.9 | 19 |
| 29 | Sensitive Detection of Ambient Formaldehyde by Incoherent Broadband Cavity Enhanced Absorption Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 2697-2705. | 6.5 | 18 |
| 30 | Characterizing nitrate radical budget trends in Beijing during 2013–2019. <i>Science of the Total Environment</i> , 2021, 795, 148869. | 8.0 | 17 |
| 31 | Anthropogenic monoterpenes aggravating ozone pollution. <i>National Science Review</i> , 2022, 9, . | 9.5 | 17 |
| 32 | Role of Heat Wave-Induced Biogenic VOC Enhancements in Persistent Ozone Episodes Formation in Pearl River Delta. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034317. | 3.3 | 16 |
| 33 | Measurement report: Online measurement of gas-phase nitrated phenols utilizing a CI-LToF-MS: primary sources and secondary formation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7917-7932. | 4.9 | 15 |
| 34 | Monitoring Ambient Nitrate Radical by Open-Path Cavity-Enhanced Absorption Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 10687-10693. | 6.5 | 12 |
| 35 | Heterogeneous Reaction of CaCO ₃ With NO ₂ at Different Relative Humidities: Kinetics, Mechanisms, and Impacts on Aerosol Hygroscopicity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034826. | 3.3 | 12 |
| 36 | Budget of nitrous acid (HONO) at an urban site in the fall season of Guangzhou, China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8951-8971. | 4.9 | 12 |

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|----|--|-----|-----------|
| 37 | Intercomparison of in situ CRDS and CEAS for measurements of atmospheric N ₂ O ₅ in Beijing, China. <i>Science of the Total Environment</i> , 2018, 613-614, 131-139. | 8.0 | 11 |
| 38 | Observations of OH Radical Reactivity in Field Studies. <i>Acta Chimica Sinica</i> , 2019, 77, 613. | 1.4 | 11 |
| 39 | Observations of glyoxal and methylglyoxal in a suburban area of the Yangtze River Delta, China. <i>Atmospheric Environment</i> , 2020, 238, 117727. | 4.1 | 10 |
| 40 | Simulation of organic nitrates in Pearl River Delta in 2006 and the chemical impact on ozone production. <i>Science China Earth Sciences</i> , 2018, 61, 228-238. | 5.2 | 9 |
| 41 | Impact of aerosol-radiation interaction on new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9995-10004. | 4.9 | 9 |
| 42 | Thermal dissociation cavity-enhanced absorption spectrometer for measuring NO ₂ , RO ₂ , and RONO ₂ in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4033-4051. | 3.1 | 8 |
| 43 | An Observational Based Modeling of the Surface Layer Particulate Nitrate in the North China Plain During Summertime. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035623. | 3.3 | 8 |
| 44 | Particle hygroscopicity inhomogeneity and its impact on reactive uptake. <i>Science of the Total Environment</i> , 2022, 811, 151364. | 8.0 | 8 |
| 45 | Observation based study on atmospheric oxidation capacity in Shanghai during late-autumn: Contribution from nitryl chloride. <i>Atmospheric Environment</i> , 2022, 271, 118902. | 4.1 | 8 |
| 46 | 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. | 4.9 | 7 |
| 47 | Interpretation of NO ₃ -N ₂ O ₅ observation via steady state in high-aerosol air mass: the impact of equilibrium coefficient in ambient conditions. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3525-3533. | 4.9 | 7 |
| 48 | Numerical Simulation on the Effects of the Horizontal Charge Distribution on Lightning Types and Behaviors. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034375. | 3.3 | 5 |
| 49 | Effects of nighttime heterogeneous reactions on the formation of secondary aerosols and ozone in the Pearl River Delta. <i>Chinese Science Bulletin</i> , 2022, 67, 2060-2068. | 0.7 | 4 |
| 50 | Compilation of reaction kinetics parameters determined in the Key Development Project for Air Pollution Formation Mechanism and Control Technologies in China. <i>Journal of Environmental Sciences</i> , 2023, 123, 327-340. | 6.1 | 1 |
| 51 | Atmospheric Impacts. <i>Springer Theses</i> , 2021, , 95-112. | 0.1 | 0 |