

R Bradley Pierce

List of Publications by Year in descending order

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37
papers

1,633
citations

304368

22
h-index

344852

36
g-index

37
all docs

37
docs citations

37
times ranked

2264
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Improving National Air Quality Forecasts with Satellite Aerosol Observations. Bulletin of the American Meteorological Society, 2005, 86, 1249-1262. | 1.7 | 293 |
| 2 | Satellite data of atmospheric pollution for U.S. air quality applications: Examples of applications, summary of data end-user resources, answers to FAQs, and common mistakes to avoid. Atmospheric Environment, 2014, 94, 647-662. | 1.9 | 186 |
| 3 | Chaotic advection in the stratosphere: Implications for the dispersal of chemically perturbed air from the polar vortex. Journal of Geophysical Research, 1993, 98, 18589-18595. | 3.3 | 111 |
| 4 | Remote Sensing of Tropospheric Pollution from Space. Bulletin of the American Meteorological Society, 2008, 89, 805-822. | 1.7 | 108 |
| 5 | Evaluating Sentinel-5P TROPOMI tropospheric NO ₂ column densities with airborne and Pandora spectrometers near New York City and Long Island Sound. Atmospheric Measurement Techniques, 2020, 13, 6113-6140. | 1.2 | 85 |
| 6 | Intercontinental Chemical Transport Experiment Ozone-sonde Network Study (IONS) 2004: 1. Summertime upper troposphere/lower stratosphere ozone over northeastern North America. Journal of Geophysical Research, 2007, 112, . | 3.3 | 82 |
| 7 | HTAP2 multi-model estimates of premature human mortality due to intercontinental transport of air pollution and emission sectors. Atmospheric Chemistry and Physics, 2018, 18, 10497-10520. | 1.9 | 54 |
| 8 | Impact of intercontinental pollution transport on North American ozone air pollution: an HTAP phase 2 multi-model study. Atmospheric Chemistry and Physics, 2017, 17, 5721-5750. | 1.9 | 51 |
| 9 | Evaluating the impact of spatial resolution on tropospheric NO ₂ column comparisons within urban areas using high-resolution airborne data. Atmospheric Measurement Techniques, 2019, 12, 6091-6111. | 1.2 | 51 |
| 10 | Impacts of background ozone production on Houston and Dallas, Texas, air quality during the Second Texas Air Quality Study field mission. Journal of Geophysical Research, 2009, 114, . | 3.3 | 45 |
| 11 | Sensitivity of Ozone Production to NO _x and VOC Along the Lake Michigan Coastline. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10989-11006. | 1.2 | 43 |
| 12 | Seasonal evolution of Rossby and gravity wave induced laminae in ozonesonde data obtained from Wallops Island, Virginia. Geophysical Research Letters, 1998, 25, 1859-1862. | 1.5 | 41 |
| 13 | The contribution of mixing in Lagrangian photochemical predictions of polar ozone loss over the Arctic in summer 1997. Journal of Geophysical Research, 1999, 104, 26597-26609. | 3.3 | 34 |
| 14 | Characterizing the lifetime and occurrence of stratospheric-tropospheric exchange events in the rocky mountain region using high-resolution ozone measurements. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12410-12424. | 1.2 | 33 |
| 15 | Re-formation of chlorine reservoirs in southern hemisphere polar spring. Journal of Geophysical Research, 1997, 102, 13141-13152. | 3.3 | 32 |
| 16 | Evolution of southern hemisphere spring air masses observed by HALOE. Geophysical Research Letters, 1994, 21, 213-216. | 1.5 | 31 |
| 17 | PM _{2.5} chemistry, organosulfates, and secondary organic aerosol during the 2017 Lake Michigan Ozone Study. Atmospheric Environment, 2021, 244, 117939. | 1.9 | 31 |
| 18 | Seasonal monitoring and estimation of regional aerosol distribution over Po valley, northern Italy, using a high-resolution MAIAC product. Atmospheric Environment, 2016, 141, 106-121. | 1.9 | 30 |

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|----|--|-----|-----------|
| 19 | Real-Time Simulation of the GOES-R ABI for User Readiness and Product Evaluation. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 245-261. | 1.7 | 26 |
| 20 | The Dawn of Geostationary Air Quality Monitoring: Case Studies From Seoul and Los Angeles. <i>Frontiers in Environmental Science</i> , 2018, 6, . | 1.5 | 25 |
| 21 | Contribution of dissolved organic matter to submicron water-soluble organic aerosols in the marine boundary layer over the eastern equatorial Pacific. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7695-7707. | 1.9 | 24 |
| 22 | Large-scale stratospheric ozone photochemistry and transport during the POLARIS Campaign. <i>Journal of Geophysical Research</i> , 1999, 104, 26525-26545. | 3.3 | 23 |
| 23 | Multi-scale modeling study of the source contributions to near-surface ozone and sulfur oxides levels over California during the ARCTAS-CARB period. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3173-3194. | 1.9 | 22 |
| 24 | Impact of Southern California anthropogenic emissions on ozone pollution in the mountain states: Model analysis and observational evidence from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,784. | 1.2 | 21 |
| 25 | Overview of the Lake Michigan Ozone Study 2017. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E2207-E2225. | 1.7 | 20 |
| 26 | HALOE observations of the Arctic Vortex during the 1997 spring: Horizontal structure in the lower stratosphere. <i>Geophysical Research Letters</i> , 1997, 24, 2701-2704. | 1.5 | 19 |
| 27 | Impact of multiscale dynamical processes and mixing on the chemical composition of the upper troposphere and lower stratosphere during the Intercontinental Chemical Transport Experimentâ€“North America. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 18 |
| 28 | Photochemical calculations along air mass trajectories during ASHOE/MAESA. <i>Journal of Geophysical Research</i> , 1997, 102, 13153-13167. | 3.3 | 17 |
| 29 | Radiative forcing due to enhancements in tropospheric ozone and carbonaceous aerosols caused by Asian fires during spring 2008. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 17 |
| 30 | Interannual Variability in Baseline Ozone and Its Relationship to Surface Ozone in the Western U.S.. <i>Environmental Science & Technology</i> , 2016, 50, 2994-3001. | 4.6 | 17 |
| 31 | Changes in nitrogen oxides emissions in California during 2005â€“2010 indicated from topâ€“down and bottomâ€“up emission estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,928. | 1.2 | 16 |
| 32 | Impacts of lake breeze meteorology on ozone gradient observations along Lake Michigan shorelines in Wisconsin. <i>Atmospheric Environment</i> , 2022, 269, 118834. | 1.9 | 10 |
| 33 | Observations of the Development and Vertical Structure of the Lake Breeze Circulation During the 2017 Lake Michigan Ozone Study. <i>Journals of the Atmospheric Sciences</i> , 2022, , . | 0.6 | 6 |
| 34 | Comparison of satellite and in situ ozone measurements in the lower stratosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 13971-13979. | 3.3 | 4 |
| 35 | Observations of the lower atmosphere from the 2021 WiscoDISCO campaign. <i>Earth System Science Data</i> , 2022, 14, 2129-2145. | 3.7 | 4 |
| 36 | Intercomparison of ozone measurements in the lower stratosphere from the UARS Halogen Occultation Experiment and the ER-2 UV absorption photometer. <i>Journal of Geophysical Research</i> , 1997, 102, 13135-13140. | 3.3 | 3 |

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|----|--|-----|-----------|
| 37 | Observations of southern polar descent and coupling in the thermosphere, mesosphere and stratosphere provided by HALOE. Geophysical Monograph Series, 2000, , 191-206. | 0.1 | 0 |