R Bradley Pierce

List of Publications by Year
in descending order

37	1,633	304743	345221
papers	citations	22 h-index	36 g-index

37	37	37	2264
all docs	docs citations	times ranked	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.	3.3	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.	4.1	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.	3.3	108
5	Evaluating Sentinel-5P TROPOMI tropospheric NO₂ column densities with airborne and Pandora spectrometers near New York City and Long Island Sound. Atmospheric Measurement Techniques, 2020, 13, 6113-6140.	3.1	85
6	Intercontinental Chemical Transport Experiment Ozonesonde 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.	4.9	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.	4.9	51
9	Evaluating the impact of spatial resolution on tropospheric NO₂ column comparisons within urban areas using high-resolution airborne data. Atmospheric Measurement Techniques, 2019, 12, 6091-6111.	3.1	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.	3.3	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.	4.0	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 stratosphericâ€tropospheric exchange events in the rocky mountain region using highâ€resolution ozone measurements. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12410-12424.	3.3	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.	4.0	31
17	PM2.5 chemistry, organosulfates, and secondary organic aerosol during the 2017 Lake Michigan Ozone Study. Atmospheric Environment, 2021, 244, 117939.	4.1	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.	4.1	30

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19	Real-Time Simulation of the GOES-R ABI for User Readiness and Product Evaluation. Bulletin of the American Meteorological Society, 2016, 97, 245-261.	3.3	26
20	The Dawn of Geostationary Air Quality Monitoring: Case Studies From Seoul and Los Angeles. Frontiers in Environmental Science, 2018, 6, .	3.3	25
21	Contribution of dissolved organic matter to submicron water-soluble organic aerosols in the marine boundary layer over the eastern equatorial Pacific. Atmospheric Chemistry and Physics, 2016, 16, 7695-7707.	4.9	24
22	Large-scale stratospheric ozone photochemistry and transport during the POLARIS Campaign. Journal of Geophysical Research, 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. Atmospheric Chemistry and Physics, 2011, 11, 3173-3194.	4.9	22
24	Impact of Southern California anthropogenic emissions on ozone pollution in the mountain states: Model analysis and observational evidence from space. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,784.	3.3	21
25	Overview of the Lake Michigan Ozone Study 2017. Bulletin of the American Meteorological Society, 2021, 102, E2207-E2225.	3.3	20
26	HALOE observations of the Arctic Vortex during the 1997 spring: Horizontal structure in the lower stratosphere. Geophysical Research Letters, 1997, 24, 2701-2704.	4.0	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. Journal of Geophysical Research, 2007, 112, .	3.3	18
28	Photochemical calculations along air mass trajectories during ASHOE/MAESA. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2012, 117, .	3.3	17
30	Interannual Variability in Baseline Ozone and Its Relationship to Surface Ozone in the Western U.S.. Environmental Science & Technology, 2016, 50, 2994-3001.	10.0	17
31	Changes in nitrogen oxides emissions in California during 2005â€“2010 indicated from topâ€down and bottomâ€up emission estimates. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,928.	3.3	16
32	Impacts of lake breeze meteorology on ozone gradient observations along Lake Michigan shorelines in Wisconsin. Atmospheric Environment, 2022, 269, 118834.	4.1	10
33	Observations of the Development and Vertical Structure of the Lake Breeze Circulation During the 2017 Lake Michigan Ozone Study. Journals of the Atmospheric Sciences, 2022, , .	1.7	6
34	Comparison of satellite and in situ ozone measurements in the lower stratosphere. Journal of Geophysical Research, 1999, 104, 13971-13979.	3.3	4
35	Observations of the lower atmosphere from the 2021 WiscoDISCO campaign. Earth System Science Data, 2022, 14, 2129-2145.	9.9	4
36	Intercomparison of ozone measurements in the lower stratosphere from the UARS Halogen Occultation Experiment and the ER-2 UV absorption photometer. Journal of Geophysical Research, 1997, 102, 13135-13140.	3.3	3

#	Article	IF	Citations
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