

Guy Brasseur

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

4,278
citations

304368

22
h-index

329751

37
g-index

46
all docs

46
docs citations

46
times ranked

4750
citing authors

#	ARTICLE	IF	CITATIONS
1	A global simulation of tropospheric ozone and related tracers: Description and evaluation of MOZART, version 2. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	848
2	MOZART, a global chemical transport model for ozone and related chemical tracers: 1. Model description. <i>Journal of Geophysical Research</i> , 1998, 103, 28265-28289.	3.3	402
3	Sensitivity of chemical tracers to meteorological parameters in the MOZART's chemical transport model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	395
4	The Response in Air Quality to the Reduction of Chinese Economic Activities During the COVID-19 Outbreak. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088070.	1.5	324
5	Assessment of the global impact of aerosols on tropospheric oxidants. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	289
6	Climate services: Lessons learned and future prospects. <i>Earth's Future</i> , 2016, 4, 79-89.	2.4	168
7	Atmospheric impact of NOx emissions by subsonic aircraft: A three-dimensional model study. <i>Journal of Geophysical Research</i> , 1996, 101, 1423-1428.	3.3	122
8	Future changes in stratospheric ozone and the role of heterogeneous chemistry. <i>Nature</i> , 1990, 348, 626-628.	13.7	113
9	Impact of Aviation on Climate: FAA's Aviation Climate Change Research Initiative (ACCRI) Phase II. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 561-583.	1.7	93
10	Effect of long-term solar variability in a two-dimensional interactive model of the middle atmosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 20413-20427.	3.3	86
11	Twenty-Five Years of Lower Tropospheric Ozone Observations in Tropical East Asia: The Influence of Emissions and Weather Patterns. <i>Geophysical Research Letters</i> , 2019, 46, 11463-11470.	1.5	73
12	International Geosphere-Biosphere Programme and Earth system science: Three decades of co-evolution. <i>Anthropocene</i> , 2015, 12, 3-16.	1.6	57
13	Changes in global air pollutant emissions during the COVID-19 pandemic: a dataset for atmospheric modeling. <i>Earth System Science Data</i> , 2021, 13, 4191-4206.	3.7	57
14	A set of diagnostics for evaluating chemistry-climate models in the extratropical tropopause region. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	55
15	Global Changes in Secondary Atmospheric Pollutants During the 2020 COVID-19 Pandemic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034213.	1.2	54
16	Response of the mesosphere to human-induced perturbations and solar variability calculated by a 2-D model. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 7-1.	3.3	52
17	Diverse response of surface ozone to COVID-19 lockdown in China. <i>Science of the Total Environment</i> , 2021, 789, 147739.	3.9	44
18	Ensemble forecasts of air quality in eastern China – Part 1: Model description and implementation of the MarcoPolo-Panda prediction system, version 1. <i>Geoscientific Model Development</i> , 2019, 12, 33-67.	1.3	39

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19	Five steps to improve air-quality forecasts. <i>Nature</i> , 2018, 561, 27-29.	13.7	38
20	Long-term changes in the mesosphere calculated by a two-dimensional model. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	29
21	Designing the Climate Observing System of the Future. <i>Earth's Future</i> , 2018, 6, 80-102.	2.4	24
22	The impact of high altitude aircraft on the ozone layer in the stratosphere. <i>Journal of Atmospheric Chemistry</i> , 1994, 18, 103-128.	1.4	23
23	Response of surface ozone concentration to emission reduction and meteorology during the COVID-19 lockdown in Europe. <i>Meteorological Applications</i> , 2021, 28, e1990.	0.9	23
24	Ozone Anomalies in the Free Troposphere During the COVID-19 Pandemic. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094204.	1.5	22
25	The Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA). <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1743-E1760.	1.7	21
26	Predicting the effect of confinement on the COVID-19 spread using machine learning enriched with satellite air pollution observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
27	Atmospheric Impacts of COVID-19 on NO _x and VOC Levels over China Based on TROPOMI and IASI Satellite Data and Modeling. <i>Atmosphere</i> , 2021, 12, 946.	1.0	13
28	Effect of the 11-year cycle of solar activity on characteristics of the total ozone annual variation. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2007, 43, 344-356.	0.2	12
29	Is atmospheric oxidation capacity better in indicating tropospheric O ₃ formation?. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, .	3.3	12
30	The Impact on the Ozone Layer of a Potential Fleet of Civil Hypersonic Aircraft. <i>Earth's Future</i> , 2020, 8, e2020EF001626.	2.4	10
31	Amplified Upward Trend of the Joint Occurrences of Heat and Ozone Extremes in China over 2013-2020. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E1330-E1342.	1.7	10
32	Science Directions in a Post COP21 World of Transient Climate Change: Enabling Regional to Local Predictions in Support of Reliable Climate Information. <i>Earth's Future</i> , 2018, 6, 1498-1507.	2.4	5
33	Segregation of Atmospheric Oxidants in Turbulent Urban Environments. <i>Atmosphere</i> , 2022, 13, 315.	1.0	5
34	The Role of Climate Services Climate services in Adapting Adaptation to Climate Variability and Change. , 2014, , 1-16.		3
35	Chemical Weather and Chemical Climate. <i>AGU Advances</i> , 2021, 2, e2021AV000399.	2.3	2
36	The Importance of Fundamental Science for Society: The Success Story of Ozone Research. Perspectives of Earth and Space Scientists, 2020, 1, e2020CN000136.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Effects of injected ice particles in the lower stratosphere on the Antarctic ozone hole. Earth's Future, 2015, 3, 143-158.	2.4	1
38	Thank you to Earth's Future Reviewers in 2018. Earth's Future, 2019, 7, 584-586.	2.4	0