

Barbara Dix

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,144
citations

567281

15
h-index

794594

19
g-index

27
all docs

27
docs citations

27
times ranked

1787
citing authors

#	ARTICLE	IF	CITATIONS
1	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12239-12271.	4.9	231
2	Iodine's impact on tropospheric oxidants: a global model study in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1161-1186.	4.9	116
3	Aircraft measurements of BrO, IO, glyoxal, NO ₂ , H ₂ O ₂ , O ₃ , and aerosol extinction profiles in the tropics: comparison with aircraft-/ship-based in situ and lidar measurements. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2121-2148.	3.1	107
4	Active and widespread halogen chemistry in the tropical and subtropical free troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9281-9286.	7.1	91
5	Detection of iodine monoxide in the tropical free troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2035-2040.	7.1	88
6	The CU Airborne MAX-DOAS instrument: vertical profiling of aerosol extinction and trace gases. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 719-739.	3.1	86
7	Daily Satellite Observations of Methane from Oil and Gas Production Regions in the United States. <i>Scientific Reports</i> , 2020, 10, 1379.	3.3	76
8	Quantitative detection of iodine in the stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1860-1866.	7.1	61
9	Stratospheric Injection of Brominated Very Short-Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5690-5719.	3.3	36
10	Mercury oxidation from bromine chemistry in the free troposphere over the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3743-3760.	4.9	33
11	BrO and inferred Br profiles over the western Pacific: relevance of inorganic bromine sources and a minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15245-15270.	4.9	33
12	Formaldehyde in the Tropical Western Pacific: Chemical Sources and Sinks, Convective Transport, and Representation in CAM-Chem and the CCM1 Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11201-11226.	3.3	32
13	Nitrogen Oxide Emissions from U.S. Oil and Gas Production: Recent Trends and Source Attribution. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085866.	4.0	31
14	Ground-based direct-sun DOAS and airborne MAX-DOAS measurements of the collision-induced oxygen complex, O ₂ O ₂ , absorption with significant pressure and temperature differences. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 793-809.	3.1	26
15	Quantifying Methane and Ozone Precursor Emissions from Oil and Gas Production Regions across the Contiguous US. <i>Environmental Science & Technology</i> , 2021, 55, 9129-9139.	10.0	23
16	MAX-DOAS observations from ground, ship, and research aircraft: maximizing signal-to-noise to measure 'weak' absorbers. , 2009, , .		20
17	Parameterization retrieval of trace gas volume mixing ratios from Airborne MAX-DOAS. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5655-5675.	3.1	19
18	Quantifying NO ₂ Emissions from U.S. Oil and Gas Production Regions Using TROPOMI NO ₂ . <i>ACS Earth and Space Chemistry</i> , 2022, 6, 403-414.	2.7	15

#	ARTICLE	IF	CITATIONS
19	Measurements of Volatile Organic Compounds During the COVID-19 Lockdown in Changzhou, China. Geophysical Research Letters, 2021, 48, e2021GL095560.	4.0	12
20	Ozone depletion due to dust release of iodine in the free troposphere. Science Advances, 2021, 7, eabj6544.	10.3	5
21	Maximizing Degrees of Freedom in MAX-DOAS Retrievals of BrO from Remote Tropical Marine Mountaintops. , 2017, , .		1