Sunil Baidar

List of Publications by Year
in descending order

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29	1,212	394286	526166
papers	citations	19 h-index	27 g-index

38	38	38	2113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Doppler-Lidar Evaluation of HRRR-Model Skill at Simulating Summertime Wind Regimes in the Columbia River Basin during WFIP2. Weather and Forecasting, 2021, , .	0.5	1
2	Characterizing NWP Model Errors Using Doppler-Lidar Measurements of Recurrent Regional Diurnal Flows: Marine-Air Intrusions into the Columbia River Basin. Monthly Weather Review, 2020, 148, 929-953.	0.5	11
3	Observation of the Urban Wind Island Effect. EPJ Web of Conferences, 2020, 237, 06009.	0.1	2
4	Evaluating the WFIP2 updates to the HRRR model using scanning Doppler lidar measurements in the complex terrain of the Columbia River Basin. Journal of Renewable and Sustainable Energy, 2020, 12, .	0.8	8
5	Quantitative detection of iodine in the stratosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1860-1866.	3.3	61
6	Spatial Variability of Winds and HRRRâ€“NCEP Model Error Statistics at Three Doppler-Lidar Sites in the Wind-Energy Generation Region of the Columbia River Basin. Journal of Applied Meteorology and Climatology, 2019, 58, 1633-1656.	0.6	25
7	The Optical Autocovariance Wind Lidar. Part II: Green OAWL (GrOAWL) Airborne Performance and Validation. Journal of Atmospheric and Oceanic Technology, 2018, 35, 2099-2116.	0.5	8
8	The Optical Autocovariance Wind Lidar. Part I: OAWL Instrument Development and Demonstration. Journal of Atmospheric and Oceanic Technology, 2018, 35, 2079-2097.	0.5	19
9	Airborne tests of an OAWL Doppler lidar: Results and potential for space deployment. EPJ Web of Conferences, 2018, 176, 02004.	0.1	0
10	Stratospheric Injection of Brominated Very Shortâ€Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5690-5719.	1.2	36
11	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. Bulletin of the American Meteorological Society, 2017, 98, 106-128.	1.7	50
12	Formaldehyde in the Tropical Western Pacific: Chemical Sources and Sinks, Convective Transport, and Representation in CAMâ€Chem and the CCMI Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11201-11226.	1.2	32
13	BrO and inferred Br_{<i>y</i>} profiles over the western Pacific: relevance of inorganic bromine sources and a Br_{<i>y</i>} minimum in the aged tropical tropopause layer. Atmospheric Chemistry and Physics, 2017, 17, 15245-15270.	1.9	33
14	The CU mobile Solar Occultation Flux instrument: structure functions and emission rates of NH₃, NO₂ and C₂H₆. Atmospheric Measurement Techniques, 2017, 10, 373-392.	1.2	22
15	Development of a digital mobile solar tracker. Atmospheric Measurement Techniques, 2016, 9, 963-972.	1.2	13
16	Modeling the weekly cycle of NO_x and CO emissions and their impacts on O₃ in the Los Angelesâ€South Coast Air Basin during the CalNex 2010 field campaign. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1340-1360.	1.2	51
17	Injection of iodine to the stratosphere. Geophysical Research Letters, 2015, 42, 6852-6859.	1.5	52
18	Weakening of the weekend ozone effect over California's South Coast Air Basin. Geophysical Research Letters, 2015, 42, 9457-9464.	1.5	32

#	Article	IF	Citations
19	Ground-based direct-sun DOAS and airborne MAX-DOAS measurements of the collision-induced oxygen complex, O₂O₂, absorption with significant pressure and temperature differences. Atmospheric Measurement Techniques, 2015, 8, 793-809.	1.2	26
20	Active and widespread halogen chemistry in the tropical and subtropical free troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9281-9286.	3.3	91
21	Aircraft measurements of BrO, IO, glyoxal, NO₂, H₂O, O₂â€“O₂ and aerosol extinction profiles in the tropics: comparison with aircraft-/ship-based in situ and lidar measurements. Atmospheric Measurement Techniques, 2015, 8, 2121-2148.	1.2	107
22	Coal-tar-based sealcoated pavement: A major PAH source to urban stream sediments. Environmental Pollution, 2014, 185, 59-68.	3.7	40
23	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in aerosol in a 3-D model. Atmospheric Chemistry and Physics, 2014, 14, 6213-6239.	1.9	166
24	Novel Pathways to Form Secondary Organic Aerosols: Glyoxal SOA in WRF/Chem. Springer Proceedings in Complexity, 2014, , 149-154.	0.2	0
25	The CU Airborne MAX-DOAS instrument: vertical profiling of aerosol extinction and trace gases. Atmospheric Measurement Techniques, 2013, 6, 719-739.	1.2	86
26	Detection of iodine monoxide in the tropical free troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2035-2040.	3.3	88
27	Airborne MAXâ€DOAS measurements over California: Testing the NASA OMI tropospheric NO₂ product. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7400-7413.	1.2	26
28	Combining Active and Passive Airborne Remote Sensing to Quantify NO2 and Ox Production near Bakersfield, CA. British Journal of Environment and Climate Change, 2013, 3, .	0.3	12
29	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). Atmospheric Chemistry and Physics, 2012, 12, 7647-7687.	1.9	94