

Matthew J McGill

List of Publications by Year in descending order

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19
papers

2,466
citations

623574

14
h-index

794469

19
g-index

19
all docs

19
docs citations

19
times ranked

2453
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial performance assessment of CALIOP. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	1,121
2	Fully Automated Detection of Cloud and Aerosol Layers in the CALIPSO Lidar Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 2034-2050.	0.5	484
3	Cloud Physics Lidar: instrument description and initial measurement results. <i>Applied Optics</i> , 2002, 41, 3725.	2.1	177
4	Airborne validation of spatial properties measured by the CALIPSO lidar. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	144
5	An overview of the CATS level 1 processing algorithms and data products. <i>Geophysical Research Letters</i> , 2016, 43, 4632-4639.	1.5	93
6	Combined lidar-radar remote sensing: Initial results from CRYSTAL-FACE. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	66
7	Airborne lidar measurements of aerosol optical properties during SAFARI-2000. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	64
8	The Cloud-Aerosol Transport System (CATS): a technology demonstration on the International Space Station. <i>Proceedings of SPIE</i> , 2015, , .	0.8	57
9	Statistics of Cloud Optical Properties from Airborne Lidar Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 869-883.	0.5	55
10	Radiative Forcing and Stratospheric Warming of Pyrocumulonimbus Smoke Aerosols: First Modeling Results With Multisensor (EPIC, CALIPSO, and CATS) Views from Space. <i>Geophysical Research Letters</i> , 2019, 46, 10061-10071.	1.5	44
11	Airborne validation of cirrus cloud properties derived from CALIPSO lidar measurements: Spatial properties. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	35
12	Cloud-Aerosol Transport System (CATS) 1064-nm calibration and validation. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6241-6258.	1.2	31
13	Models transport Saharan dust too low in the atmosphere: a comparison of the MetUM and CAMS forecasts with observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12955-12982.	1.9	24
14	Airborne validation of cirrus cloud properties derived from CALIPSO lidar measurements: Optical properties. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
15	Aerosol and Cloud Detection Using Machine Learning Algorithms and Space-Based Lidar Data. <i>Atmosphere</i> , 2021, 12, 606.	1.0	16
16	Atmospheric Carbon and Transport “America (ACT-America) Data Sets: Description, Management, and Delivery. <i>Earth and Space Science</i> , 2021, 8, e2020EA001634.	1.1	15
17	First retrieval of absorbing aerosol height over dark target using TROPOMI oxygen B band: Algorithm development and application for surface particulate matter estimates. <i>Remote Sensing of Environment</i> , 2021, 265, 112674.	4.6	13
18	Sensitivities in Satellite Lidar-Derived Estimates of Daytime Top-of-the-Atmosphere Optically Thin Cirrus Cloud Radiative Forcing: A Case Study. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088871.	1.5	5

#	ARTICLE	IF	CITATIONS
19	Observation and quantification of aerosol outflow from southern Africa using spaceborne lidar. South African Journal of Science, 2020, 116, .	0.3	4