

Douglas M Mach

List of Publications by Year in descending order

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26
papers

2,159
citations

623188

14
h-index

552369

26
g-index

34
all docs

34
docs citations

34
times ranked

1937
citing authors

#	ARTICLE	IF	CITATIONS
1	The Illumination of Thunderclouds by Lightning: 4. Volumetric Thunderstorm Imagery. Earth and Space Science, 2022, 9, .	1.1	3
2	The Illumination of Thunderclouds by Lightning: 3. Retrieving Optical Source Altitude. Earth and Space Science, 2022, 9, e2021EA001944.	1.1	6
3	The Illumination of Thunderclouds by Lightning: 1. The Extent and Altitude of Optical Lightning Sources. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	4
4	The Illumination of Thunderclouds by Lightning: 2. The Effect of GLM Instrument Threshold on Detection and Clustering. Earth and Space Science, 2022, 9, .	1.1	7
5	Further Investigation Into Detection Efficiency and False Alarm Rate for the Geostationary Lightning Mappers Aboard GOES-16 and GOES-17. Earth and Space Science, 2021, 8, e2020EA001237.	1.1	17
6	Observations of Lightning NO _x Production From GOES-R Post Launch Test Field Campaign Flights. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033769.	1.2	9
7	A Global LIS/OTD Climatology of Lightning Flash Extent Density. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033885.	1.2	16
8	Remote Sensing of Electric Fields Observed Within Winter Precipitation During the 2020 Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Snowstorms (IMPACTS) Field Campaign. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034704.	1.2	4
9	A Technique for Determining Three-Dimensional Storm Cloud-Top Locations Using Stereo Optical Lightning Pulses Observed from Orbit. Journal of Atmospheric and Oceanic Technology, 2021, 38, 1993-2001.	0.5	5
10	Three Years of the Lightning Imaging Sensor Onboard the International Space Station: Expanded Global Coverage and Enhanced Applications. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032918.	1.2	65
11	Geostationary Lightning Mapper Clustering Algorithm Stability. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031900.	1.2	42
12	Preliminary detection efficiency and false alarm rate assessment of the Geostationary Lightning Mapper on the GOES-16 satellite. Journal of Applied Remote Sensing, 2020, 14, 1.	0.6	27
13	Retrieving Global Wilson Currents from Electrified Clouds Using Satellite Passive Microwave Observations. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1487-1503.	0.5	4
14	A TRMM Assessment of the Composition of the Generator Current That Supplies the Global Electric Circuit. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8208-8220.	1.2	7
15	The properties of optical lightning flashes and the clouds they illuminate. Journal of Geophysical Research D: Atmospheres, 2017, 122, 423-442.	1.2	50
16	Relationship between the global electric circuit and electrified cloud parameters at diurnal, seasonal, and interannual timescales. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8525-8542.	1.2	9
17	A TRMM/GPM retrieval of the total mean generator current for the global electric circuit. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10,025.	1.2	15
18	Parameterizing total storm conduction currents in the Community Earth System Model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,715.	1.2	9

#	ARTICLE	IF	CITATIONS
19	A Method of Estimating Electric Fields above Electrified Clouds from Passive Microwave Observations. Journal of Atmospheric and Oceanic Technology, 2015, 32, 1429-1446.	0.5	11
20	Seasonal variations in the lightning diurnal cycle and implications for the global electric circuit. Atmospheric Research, 2014, 135-136, 228-243.	1.8	86
21	The GOES-R Geostationary Lightning Mapper (GLM). Atmospheric Research, 2013, 125-126, 34-49.	1.8	342
22	Global electric circuit implications of combined aircraft storm electric current measurements and satellite-based diurnal lightning statistics. Journal of Geophysical Research, 2011, 116, .	3.3	85
23	Comparisons of total currents based on storm location, polarity, and flash rates derived from high-altitude aircraft overflights. Journal of Geophysical Research, 2010, 115, .	3.3	46
24	Electric fields, conductivity, and estimated currents from aircraft overflights of electrified clouds. Journal of Geophysical Research, 2009, 114, .	3.3	47
25	Performance assessment of the Optical Transient Detector and Lightning Imaging Sensor. Journal of Geophysical Research, 2007, 112, .	3.3	153
26	Global frequency and distribution of lightning as observed from space by the Optical Transient Detector. Journal of Geophysical Research, 2003, 108, ACL 4-1.	3.3	1,090