Douglas M Mach

List of Publications by Year
in descending order

26	2,159	623188	552369
papers	citations	14 h-index	26 g-index

34	34	34	1937
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	The GOES-R Geostationary Lightning Mapper (GLM). Atmospheric Research, 2013, 125-126, 34-49.	1.8	342
3	Performance assessment of the Optical Transient Detector and Lightning Imaging Sensor. Journal of Geophysical Research, 2007, 112, .	3.3	153
4	Seasonal variations in the lightning diurnal cycle and implications for the global electric circuit. Atmospheric Research, 2014, 135-136, 228-243.	1.8	86
5	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
6	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
7	The properties of optical lightning flashes and the clouds they illuminate. Journal of Geophysical Research D: Atmospheres, 2017, 122, 423-442.	1.2	50
8	Electric fields, conductivity, and estimated currents from aircraft overflights of electrified clouds. Journal of Geophysical Research, 2009, 114, .	3.3	47
9	Comparisons of total currents based on storm location, polarity, and flash rates derived from highâ€altitude aircraft overflights. Journal of Geophysical Research, 2010, 115, .	3.3	46
10	Geostationary Lightning Mapper Clustering Algorithm Stability. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031900.	1.2	42
11	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
12	Further Investigation Into Detection Efficiency and False Alarm Rate for the Geostationary Lightning Mappers Aboard GOESâ€16 and GOESâ€17. Earth and Space Science, 2021, 8, e2020EA001237.	1.1	17
13	A Global LIS/OTD Climatology of Lightning Flash Extent Density. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033885.	1.2	16
14	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
15	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
16	Parameterizing total storm conduction currents in the Community Earth System Model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,715.	1.2	9
17	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
18	Observations of Lightning NO_x Production From GOESâ€R Post Launch Test Field Campaign Flights. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033769.	1.2	9

#	Article	IF	Citations
19	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
20	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
21	The Illumination of Thunderclouds by Lightning: 3. Retrieving Optical Source Altitude. Earth and Space Science, 2022, 9, e2021EA001944.	1.1	6
22	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
23	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
24	Remote Sensing of Electric Fields Observed Within Winter Precipitation During the 2020 Investigation of Microphysics and Precipitation for Atlantic Coastâ€Threatening Snowstorms (IMPACTS) Field Campaign. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034704.	1.2	4
25	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
26	The Illumination of Thunderclouds by Lightning: 4. Volumetric Thunderstorm Imagery. Earth and Space Science, 2022, 9, .	1.1	3