

William J Koshak

List of Publications by Year in descending order

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29
papers

2,619
citations

471509

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501196

28
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all docs

33
docs citations

33
times ranked

2670
citing authors

#	ARTICLE	IF	CITATIONS
1	Observations of Lightning NO _x Production From GOES's Post Launch Test Field Campaign Flights. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033769.	3.3	9
2	Observations of Lightning NO _x Production From Tropospheric Monitoring Instrument Case Studies Over the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034174.	3.3	10
3	Classification of GLM Flashes Using Random Forests. <i>Earth and Space Science</i> , 2021, 8, e2021EA001861.	2.6	4
4	Three Years of the Lightning Imaging Sensor Onboard the International Space Station: Expanded Global Coverage and Enhanced Applications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032918.	3.3	65
5	Observing U.S. Regional Variability in Lightning NO ₂ Production Rates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031362.	3.3	13
6	The Plasma Nature of Lightning Channels and the Resulting Nonlinear Resistance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9442-9463.	3.3	24
7	Evaluation of the Performance Characteristics of the Lightning Imaging Sensor. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1015-1031.	1.3	30
8	Performance of a simple reanalysis proxy for U.S. cloud-to-ground lightning. <i>International Journal of Climatology</i> , 2019, 39, 3932-3946.	3.5	18
9	Optimizing Precipitation Thresholds for Best Correlation Between Dry Lightning and Wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2628-2639.	3.3	8
10	A Baseline for the Predictability of U.S. Cloud-to-Ground Lightning. <i>Geophysical Research Letters</i> , 2018, 45, 10,719-10,728.	4.0	21
11	Comparing OMI-based and EPA AQS in situ NO ₂ trends: towards understanding surface NO ₂ emission changes. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3955-3967.	3.1	41
12	Development of a self-consistent lightning NO _x simulation in large-scale 3D models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3141-3154.	3.3	10
13	The Intracloud Lightning Fraction in the Contiguous United States. <i>Monthly Weather Review</i> , 2017, 145, 4481-4499.	1.4	49
14	The kinematic and microphysical control of lightning rate, extent, and NO _x production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7975-7989.	3.3	20
15	Variability of CONUS Lightning in 2003-12 and Associated Impacts. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 15-41.	1.5	44
16	A Method for Retrieving the Ground Flash Fraction and Flash Type from Satellite Lightning Mapper Observations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 79-96.	1.3	11
17	A Return Stroke NO _x Production Model. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 943-954.	1.7	10
18	Assessing the performance of the Lightning Imaging Sensor (LIS) using Deep Convective Clouds. <i>Atmospheric Research</i> , 2014, 135-136, 397-403.	4.1	21

#	ARTICLE	IF	CITATIONS
19	The NASA Lightning Nitrogen Oxides Model (LNOM): Application to air quality modeling. Atmospheric Research, 2014, 135-136, 363-369.	4.1	43
20	Global lightning nitrogen oxides production. , 2014, , 819-859.		5
21	The GOES-R Geostationary Lightning Mapper (GLM). Atmospheric Research, 2013, 125-126, 34-49.	4.1	342
22	Optimized regional and interannual variability of lightning in a global chemical transport model constrained by LIS/OTD satellite data. Journal of Geophysical Research, 2012, 117, .	3.3	310
23	Retrieving the Fraction of Ground Flashes from Satellite Lightning Imager Data Using CONUS-Based Optical Statistics. Journal of Atmospheric and Oceanic Technology, 2011, 28, 459-473.	1.3	12
24	A Mixed Exponential Distribution Model for Retrieving Ground Flash Fraction from Satellite Lightning Imager Data. Journal of Atmospheric and Oceanic Technology, 2011, 28, 475-492.	1.3	14
25	Optical Characteristics of OTD Flashes and the Implications for Flash-Type Discrimination. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1822-1838.	1.3	45
26	North Alabama Lightning Mapping Array (LMA): VHF Source Retrieval Algorithm and Error Analyses. Journal of Atmospheric and Oceanic Technology, 2004, 21, 543-558.	1.3	106
27	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
28	Performance Assessment of the Optical Transient Detector and Lightning Imaging Sensor. Part I: Predicted Diurnal Variability. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1318-1332.	1.3	205
29	Laboratory Calibration of the Optical Transient Detector and the Lightning Imaging Sensor. Journal of Atmospheric and Oceanic Technology, 2000, 17, 905-915.	1.3	39