William J Koshak

List of Publications by Year
in descending order

29 papers	2,619 citations	471509 17 h-index	501196 28 g-index
33 all docs	33 docs citations	33 times ranked	2670 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.	4.1	342
3	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
4	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
5	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
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.	3.3	65
7	The Intracloud Lightning Fraction in the Contiguous United States. Monthly Weather Review, 2017, 145, 4481-4499.	1.4	49
8	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
9	Variability of CONUS Lightning in 2003â€“12 and Associated Impacts. Journal of Applied Meteorology and Climatology, 2015, 54, 15-41.	1.5	44
10	The NASA Lightning Nitrogen Oxides Model (LNOM): Application to air quality modeling. Atmospheric Research, 2014, 135-136, 363-369.	4.1	43
11	Comparing OMI-based and EPA AQS in situ NO₂ trends: towards understanding surface NO_{<i>x</i>} emission changes. Atmospheric Measurement Techniques, 2018, 11, 3955-3967.	3.1	41
12	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
13	Evaluation of the Performance Characteristics of the Lightning Imaging Sensor. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1015-1031.	1.3	30
14	The Plasma Nature of Lightning Channels and the Resulting Nonlinear Resistance. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9442-9463.	3.3	24
15	Assessing the performance of the Lightning Imaging Sensor (LIS) using Deep Convective Clouds. Atmospheric Research, 2014, 135-136, 397-403.	4.1	21
16	A Baseline for the Predictability of U.S. Cloudâ€toâ€Ground Lightning. Geophysical Research Letters, 2018, 45, 10,719-10,728.	4.0	21
17	The kinematic and microphysical control of lightning rate, extent, and NO<i>_X</i> production. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7975-7989.	3.3	20
18	Performance of a simple reanalysis proxy for U.S. cloudâ€toâ€ground lightning. International Journal of Climatology, 2019, 39, 3932-3946.	3.5	18

#	Article	IF	Citations
19	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
20	Observing U.S. Regional Variability in Lightning NO₂ Production Rates. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031362.	3.3	13
21	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
22	A Method for Retrieving the Ground Flash Fraction and Flash Type from Satellite Lightning Mapper Observations. Journal of Atmospheric and Oceanic Technology, 2015, 32, 79-96.	1.3	11
23	A Return Stroke NOx Production Model. Journals of the Atmospheric Sciences, 2015, 72, 943-954.	1.7	10
24	Development of a selfâ€consistent lightning NO<i>_x</i> simulation in largeâ€scale 3â€D models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3141-3154.	3.3	10
25	Observations of Lightning NO_x Production From Tropospheric Monitoring Instrument Case Studies Over the United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034174.	3.3	10
26	Observations of Lightning NO_x Production From GOESâ€R Post Launch Test Field Campaign Flights. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033769.	3.3	9
27	Optimizing Precipitation Thresholds for Best Correlation Between Dry Lightning and Wildfires. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2628-2639.	3.3	8
28	Global lightning nitrogen oxides production. , 2014, , 819-859.		5
29	Classification of GLM Flashes Using Random Forests. Earth and Space Science, 2021, 8, e2021EA001861.	2.6	4