

Steve Miller

List of Publications by Year in descending order

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79
papers

5,453
citations

147801

31
h-index

82547

72
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81
all docs

81
docs citations

81
times ranked

4973
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined Dust Detection Algorithm for Asian Dust Events Over East Asia Using GK2A/AMI: a Case Study in October 2019. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2022, 58, 45-64.	2.3	6
2	A Physical Basis for the Overstatement of Low Clouds at Night by Conventional Satellite Infrared-Based Imaging Radiometer Bias Spectral Techniques. <i>Earth and Space Science</i> , 2022, 9, .	2.6	0
3	The VIIRS Day/Night Band: A Flicker Meter in Space?. <i>Remote Sensing</i> , 2022, 14, 1316.	4.0	9
4	La Soufriere Volcanic Eruptions Launched Gravity Waves Into Space. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	11
5	Multiple Angle Observations Would Benefit Visible Band Remote Sensing Using Night Lights. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	15
6	Boat encounter with the 2019 Java bioluminescent milky sea: Views from on-deck confirm satellite detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	0
7	Satellite imagery and products of the 16 th February 2020 Saharan Air Layer dust event over the eastern Atlantic: impacts of water vapor on dust detection and morphology. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1615-1634.	3.1	2
8	Honing in on bioluminescent milky seas from space. <i>Scientific Reports</i> , 2021, 11, 15443.	3.3	10
9	Quantifying uncertainties in nighttime light retrievals from Suomi-NPP and NOAA-20 VIIRS Day/Night Band data. <i>Remote Sensing of Environment</i> , 2021, 263, 112557.	11.0	51
10	Retired satellites: A chance to shed light. <i>Science</i> , 2021, 373, 1451-1452.	12.6	7
11	Examining the Economic and Environmental Impacts of COVID-19 Using Earth Observation Data. <i>Remote Sensing</i> , 2021, 13, 5.	4.0	33
12	Community Challenges and Prospects in the Operational Forecasting of Extreme Biomass Burning Smoke. , 2021, , .		0
13	Constraining Aerosol Phase Function Using Dual-View Geostationary Satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035209.	3.3	3
14	Remote sensing of night lights: A review and an outlook for the future. <i>Remote Sensing of Environment</i> , 2020, 237, 111443.	11.0	442
15	Evaluating Geostationary Lightning Mapper Flash Rates Within Intense Convective Storms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032827.	3.3	33
16	GeoColor: A Blending Technique for Satellite Imagery. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 429-448.	1.3	16
17	Development of a nighttime shortwave radiative transfer model for remote sensing of nocturnal aerosols and fires from VIIRS. <i>Remote Sensing of Environment</i> , 2020, 241, 111727.	11.0	18
18	Environmental Controls on Tropical Sea Breeze Convection and Resulting Aerosol Redistribution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031699.	3.3	8

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19	Assessing the stability of surface lights for use in retrievals of nocturnal atmospheric parameters. Atmospheric Measurement Techniques, 2020, 13, 165-190.	3.1	7
20	Detecting Layer Height of Smoke and Dust Aerosols Over Vegetated Land and Water Surfaces via Oxygen Absorption Bands. , 2020, , .		0
21	Detecting layer height of smoke aerosols over vegetated land and water surfaces via oxygen absorption bands: hourly results from EPIC/DSCOVR in deep space. Atmospheric Measurement Techniques, 2019, 12, 3269-3288.	3.1	40
22	Geostationary Lightning Mapper and Earth Networks Lightning Detection Over the Contiguous United States and Dependence on Flash Characteristics. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11552-11567.	3.3	53
23	Preliminary Dual-Satellite Observations of Atmospheric Gravity Waves in Airglow. Atmosphere, 2019, 10, 650.	2.3	12
24	<i>A Tale of Two Dust Storms</i>: analysis of a complex dust event in the Middle East. Atmospheric Measurement Techniques, 2019, 12, 5101-5118.	3.1	14
25	Dynamical Coupling Between Hurricane Matthew and the Middle to Upper Atmosphere via Gravity Waves. Journal of Geophysical Research: Space Physics, 2019, 124, 3589-3608.	2.4	29
26	Satellite&CircledRBased Detection of Daytime Supercooled Liquid&CircledR-Topped Mixed&CircledR-Phase Clouds Over the Southern Ocean Using the Advanced Himawari Imager. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2677-2701.	3.3	16
27	NASA's Black Marble nighttime lights product suite. Remote Sensing of Environment, 2018, 210, 113-143.	11.0	312
28	Short-term solar irradiance forecasting via satellite/model coupling. Solar Energy, 2018, 168, 102-117.	6.1	95
29	The Great Slave Lake PyroCb of 5 August 2014: Observations, Simulations, Comparisons With Regular Convection, and Impact on UTLS Water Vapor. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,332-12,352.	3.3	18
30	Observations of Lower Tropospheric Water Vapor Structures in GOES&CircledR-16 ABI Imagery. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,625.	3.3	0
31	Mesospheric Bore Observations Using Suomi-NPP VIIRS DNB during 2013&CircledR;2017. Remote Sensing, 2018, 10, 1935.	4.0	5
32	The Dark Side of Hurricane Matthew: Unique Perspectives from the VIIRS Day/Night Band. Bulletin of the American Meteorological Society, 2018, 99, 2561-2574.	3.3	19
33	Detection of Mixed-Phase Clouds From Shortwave and Thermal Infrared Satellite Observations. , 2018, , 43-67.		2
34	GHOST: A Satellite Mission Concept for Persistent Monitoring of Stratospheric Gravity Waves Induced by Severe Storms. Bulletin of the American Meteorological Society, 2018, 99, 1813-1828.	3.3	6
35	Solar Irradiance Nowcasting Case Studies near Sacramento. Journal of Applied Meteorology and Climatology, 2017, 56, 85-108.	1.5	33
36	Suomi NPP VIIRS/DNB imagery of nightglow gravity waves from various sources over China. Advances in Space Research, 2017, 59, 1951-1961.	2.6	9

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37	A Dynamic Enhancement With Background Reduction Algorithm: Overview and Application to Satellite-Based Dust Storm Detection. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,938.	3.3	16
38	Cloud-Base Height Estimation from VIIRS. Part II: A Statistical Algorithm Based on A-Train Satellite Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 585-598.	1.3	37
39	Passive remote sensing of altitude and optical depth of dust plumes using the oxygen A and B bands: First results from EPIC/DSCOVR at Lagrange-1 point. <i>Geophysical Research Letters</i> , 2017, 44, 7544-7554.	4.0	69
40	Tropical Cyclone Characterization via Nocturnal Low-Light Visible Illumination. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 2351-2365.	3.3	5
41	VIIRS Day/Night Band "Correcting Striping and Nonuniformity over a Very Large Dynamic Range. <i>Journal of Imaging</i> , 2016, 2, 9.	3.0	19
42	User Validation of VIIRS Satellite Imagery. <i>Remote Sensing</i> , 2016, 8, 11.	4.0	10
43	A Sight for Sore Eyes: The Return of True Color to Geostationary Satellites. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1803-1816.	3.3	40
44	Multisensor profiling of a concentric gravity wave event propagating from the troposphere to the ionosphere. <i>Geophysical Research Letters</i> , 2015, 42, 7874-7880.	4.0	99
45	Upper atmospheric gravity wave details revealed in nightglow satellite imagery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6728-35.	7.1	86
46	Utilization of the Suomi National Polar-Orbiting Partnership (NPP) Visible Infrared Imaging Radiometer Suite (VIIRS) Day/Night Band for Arctic Ship Tracking and Fisheries Management. <i>Remote Sensing</i> , 2015, 7, 971-989.	4.0	57
47	Concentric gravity waves over northern China observed by an airglow imager network and satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,058.	3.3	51
48	A dynamic scaling algorithm for the optimized digital display of VIIRS Day/Night Band imagery. <i>International Journal of Remote Sensing</i> , 2015, 36, 1839-1854.	2.9	8
49	Suomi NPP VIIRS Imagery evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6440-6455.	3.3	28
50	Improved VIIRS Day/Night Band Imagery With Near-Constant Contrast. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 6964-6971.	6.3	32
51	Estimating Three-Dimensional Cloud Structure via Statistically Blended Satellite Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 437-455.	1.5	42
52	VIIRS Day-Night Band (DNB) calibration methods for improved uniformity. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5
53	Liquid-top mixed-phase cloud detection from shortwave-infrared satellite radiometer observations: A physical basis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8245-8267.	3.3	26
54	Stratospheric and mesospheric concentric gravity waves over tropical cyclone Mahasen: Joint AIRS and VIIRS satellite observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 119, 83-90.	1.6	54

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55	VIIRS Captures Aurora Motions. Bulletin of the American Meteorological Society, 2013, 94, 1491-1493.	3.3	9
56	VIIRS constant spatial-resolution advantages. International Journal of Remote Sensing, 2013, 34, 5761-5777.	2.9	56
57	The expected performance of cloud optical and microphysical properties derived from Suomi NPP VIIRS day/night band lunar reflectance. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,230.	3.3	27
58	Illuminating the Capabilities of the Suomi National Polar-Orbiting Partnership (NPP) Visible Infrared Imaging Radiometer Suite (VIIRS) Day/Night Band. Remote Sensing, 2013, 5, 6717-6766.	4.0	260
59	Physically Based Satellite Methods. , 2013, , 49-79.		8
60	Assessing Moonlight Availability for Nighttime Environmental Applications by Low-Light Visible Polar-Orbiting Satellite Sensors. Journal of Atmospheric and Oceanic Technology, 2012, 29, 538-557.	1.3	25
61	The GOES-R Proving Ground: Accelerating User Readiness for the Next-Generation Geostationary Environmental Satellite System. Bulletin of the American Meteorological Society, 2012, 93, 1029-1040.	3.3	70
62	Suomi satellite brings to light a unique frontier of nighttime environmental sensing capabilities. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15706-15711.	7.1	217
63	Automated Lightning Flash Detection in Nighttime Visible Satellite Data. Weather and Forecasting, 2011, 26, 399-408.	1.4	19
64	The Impacts of the 9 April 2009 Dust and Smoke on Convection. Bulletin of the American Meteorological Society, 2010, 91, 991-996.	3.3	5
65	NPOESS. Bulletin of the American Meteorological Society, 2010, 91, 727-740.	3.3	42
66	A Dynamic Lunar Spectral Irradiance Data Set for NPOESS/VIIRS Day/Night Band Nighttime Environmental Applications. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2316-2329.	6.3	110
67	Development of a dust source database for mesoscale forecasting in southwest Asia. Journal of Geophysical Research, 2009, 114, .	3.3	68
68	Haboob dust storms of the southern Arabian Peninsula. Journal of Geophysical Research, 2008, 113, .	3.3	129
69	MODIS provides a satellite focus on Operation Iraqi Freedom. International Journal of Remote Sensing, 2006, 27, 1285-1296.	2.9	17
70	The NPOESS VIIRS Day/Night Visible Sensor. Bulletin of the American Meteorological Society, 2006, 87, 191-200.	3.3	147
71	Twenty thousand leagues over the seas: the first satellite perspective on bioluminescent "milky seas"™. International Journal of Remote Sensing, 2006, 27, 5131-5143.	2.9	8
72	Detection of a bioluminescent milky sea from space. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14181-14184.	7.1	128

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73	A consolidated technique for enhancing desert dust storms with MODIS. Geophysical Research Letters, 2003, 30, .	4.0	122
74	THE CLOUDSAT MISSION AND THE A-TRAIN. Bulletin of the American Meteorological Society, 2002, 83, 1771-1790.	3.3	1,845
75	GOES 10 cloud optical property retrievals in the context of vertically varying microphysics. Journal of Geophysical Research, 2001, 106, 17981-17995.	3.3	10
76	CloudSat instrument requirements as determined from ECMWF forecasts of global cloudiness. Journal of Geophysical Research, 2001, 106, 17713-17733.	3.3	20
77	Physical decoupling of the GOES daytime 3.9 μ m channel thermal emission and solar reflection components using total solar eclipse data. International Journal of Remote Sensing, 2001, 22, 9-34.	2.9	18
78	A multisensor diagnostic satellite cloud property retrieval scheme. Journal of Geophysical Research, 2000, 105, 19955-19971.	3.3	45
79	A validation survey of the ECMWF prognostic cloud scheme using LITE. Geophysical Research Letters, 1999, 26, 1417-1420.	4.0	26