

Istvan Laszlo

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,124
citations

201674

27
h-index

189892

50
g-index

65
all docs

65
docs citations

65
times ranked

3130
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncertainties in satellite remote sensing of aerosols and impact on monitoring its long-term trend: a review and perspective. <i>Annales Geophysicae</i> , 2009, 27, 2755-2770.	1.6	290
2	Multiangle implementation of atmospheric correction (MAIAC): 2. Aerosol algorithm. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	284
3	Multi-angle implementation of atmospheric correction for MODIS (MAIAC): 3. Atmospheric correction. <i>Remote Sensing of Environment</i> , 2012, 127, 385-393.	11.0	219
4	Suomi- NPP VIIRS aerosol algorithms and data products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,673.	3.3	202
5	Surface radiation budgets in support of the GEWEX Continental-scale International Project (GCIP) and the GEWEX Americas Prediction Project (GAPP), including the North American Land Data Assimilation System (NLDAS) project. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	196
6	Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. <i>Journal of Aerosol Science</i> , 2007, 38, 995-1014.	3.8	180
7	Multiangle implementation of atmospheric correction (MAIAC): 1. Radiative transfer basis and look-up tables. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	166
8	Single-scattering properties of tri-axial ellipsoidal mineral dust aerosols: A database for application to radiative transfer calculations. <i>Journal of Aerosol Science</i> , 2010, 41, 501-512.	3.8	130
9	Study of long-term trend in aerosol optical thickness observed from operational AVHRR satellite instrument. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	109
10	Preliminary evaluation of $\text{S}\text{uomi-}\text{NPP}$ VIIRS aerosol optical thickness. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3942-3962.	3.3	108
11	Development of the HIRS Outgoing Longwave Radiation Climate Dataset. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 2029-2047.	1.3	96
12	Intercomparison of shortwave radiative transfer codes and measurements. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	88
13	Angular anisotropy of satellite observations of land surface temperature. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	76
14	Validation and expected error estimation of $\text{Suomi-}\text{NPP}$ VIIRS aerosol optical thickness and Å...ngstrÅm exponent with AERONET. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7139-7160.	3.3	68
15	Two MODIS Aerosol Products over Ocean on the Terra and Aqua CERES SSF Datasets. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1008-1031.	1.7	59
16	Operational Aerosol Observations (AEROBS) from AVHRR/3 On Board NOAA-KLM Satellites. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 3-26.	1.3	56
17	Remote sensing of aerosol and radiation from geostationary satellites. <i>Advances in Space Research</i> , 2008, 41, 1882-1893.	2.6	51
18	An enhanced VIIRS aerosol optical thickness (AOT) retrieval algorithm over land using a global surface reflectance ratio database. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,717.	3.3	47

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19	Detection of water vapor in the stratosphere over very high clouds in the tropics. <i>Journal of Geophysical Research</i> , 1993, 98, 22959-22967.	3.3	44
20	Discrimination of biomass burning smoke and clouds in MAIAC algorithm. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9679-9686.	4.9	44
21	A multi-angle aerosol optical depth retrieval algorithm for geostationary satellite data over the United States. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11977-11991.	4.9	40
22	Polarization and effective Mueller matrix for multiple scattering of light by nonspherical ice crystals. <i>Optics Express</i> , 2006, 14, 6381.	3.4	39
23	Improved cloud and snow screening in MAIAC aerosol retrievals using spectral and spatial analysis. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 843-850.	3.1	36
24	A study of the effect of non-spherical dust particles on the AVHRR aerosol optical thickness retrievals. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	33
25	Air Quality Forecast Verification Using Satellite Data. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 425-442.	1.5	33
26	Improved discrete ordinate solutions in the presence of an anisotropically reflecting lower boundary: Upgrades of the DISORT computational tool. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 157, 119-134.	2.3	31
27	Derivation of component aerosol direct radiative forcing at the top of atmosphere for clear-sky oceans. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1162-1186.	2.3	29
28	Effects of particle nonsphericity and radiation polarization on retrieving dust properties from MODIS observations. <i>Journal of Aerosol Science</i> , 2009, 40, 776-789.	3.8	29
29	Shortwave cloud radiative forcing at the top of the atmosphere at the surface and of the atmospheric column as determined from ISCCP C1 data. <i>Journal of Geophysical Research</i> , 1993, 98, 2703-2713.	3.3	28
30	Reduction of aerosol absorption in Beijing since 2007 from MODIS and AERONET. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	27
31	Using SURFRAD to Verify the NOAA Single-Channel Land Surface Temperature Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2868-2884.	1.3	26
32	The Relative Merits of Narrowband Channels for Estimating Broadband Albedos. <i>Journal of Atmospheric and Oceanic Technology</i> , 1988, 5, 757-773.	1.3	25
33	Improving GOES Advanced Baseline Imager (ABI) aerosol optical depth (AOD) retrievals using an empirical bias correction algorithm. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5955-5975.	3.1	23
34	Comparison and analysis of two aerosol retrievals over the ocean in the Terra/Clouds and the Earth's Radiant Energy System "Moderate Resolution Imaging Spectroradiometer single scanner footprint data: 1. Global evaluation. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	22
35	Aerosol optical depth (AOD) retrieval using simultaneous GOES-East and GOES-West reflected radiances over the western United States. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 471-486.	3.1	17
36	Validation of two-channel VIRS retrievals of aerosol optical thickness over ocean and quantitative evaluation of the impact from potential subpixel cloud contamination and surface wind effect. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	16

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37	Global component aerosol direct radiative effect at the top of atmosphere. International Journal of Remote Sensing, 2011, 32, 633-655.	2.9	16
38	Detection of Optically Thin Mineral Dust Aerosol Layers over the Ocean Using MODIS. Journal of Atmospheric and Oceanic Technology, 2013, 30, 896-916.	1.3	16
39	The Role of Daily Surface Forcing in the Upper Ocean over the Tropical Pacific: A Numerical Study. Journal of Climate, 2003, 16, 756-766.	3.2	15
40	Refining aerosol optical depth retrievals over land by constructing the relationship of spectral surface reflectances through deep learning: Application to Himawari-8. Remote Sensing of Environment, 2020, 251, 112093.	11.0	14
41	Air Quality Applications of ABI Aerosol Products from the GOES-R Series. , 2020, , 203-217.		12
42	A satellite approach for estimating regional land surface energy budget for GCIP/GAPP. Journal of Geophysical Research, 2003, 108, .	3.3	11
43	Estimates of surface ultraviolet radiation over north America using Geostationary Operational Environmental Satellites observations. Journal of Geophysical Research, 2008, 113, .	3.3	11
44	Evapotranspiration Data Product from NESDIS GET-D System Upgraded for GOES-16 ABI Observations. Remote Sensing, 2019, 11, 2639.	4.0	11
45	Tracking Smoke from a Prescribed Fire and Its Impacts on Local Air Quality Using Temporally Resolved GOES-16 ABI Aerosol Optical Depth (AOD). Journal of Atmospheric and Oceanic Technology, 2021, 38, 963-976.	1.3	10
46	The Discrete Ordinate Algorithm, DISORT for Radiative Transfer. , 2016, , 3-65.		9
47	Comparison and analysis of two aerosol retrievals over the ocean in the Terra/Clouds and the Earth's Radiant Energy Systemâ€œModerate Resolution Imaging Spectroradiometer single scanner footprint data: 2. Regional evaluation. Journal of Geophysical Research, 2005, 110, .	3.3	6
48	Exceptional events monitoring using S-NPP VIIRS aerosol products. , 2017, , .		4
49	Shortwave Radiation from ABI on the GOES-R Series. , 2020, , 179-191.		4
50	Screening for snow/snowmelt in SNPP VIIRS aerosol optical depth algorithm. Atmospheric Measurement Techniques, 2018, 11, 5813-5825.	3.1	3
51	Satellite Observations of North American Climate Change. Regional Climate Studies, 2014, , 95-165.	1.2	3
52	Evaluation of VIIRS dust detection algorithms over land. Journal of Applied Remote Sensing, 2018, 12, 1.	1.3	3
53	<title>Calculation of longwave radiance spectra at a high resolution: clear-sky results</title>. , 1994, , .		2
54	Comparison of singleâ€œchannel and multichannel aerosol optical depths derived from MAPSS data. Journal of Geophysical Research, 2008, 113, .	3.3	2

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55	Consistency of two global MODIS aerosol products over ocean on Terra and Aqua CERES SSF datasets. , 2004, 5652, 89.		1
56	Testing and integration of JPSS VIIRS aerosol EDR algorithms and evaluation of upstream/downstream effects using the Algorithm Development Library (ADL). , 2016, , .		1
57	Application of a Machine Learning Algorithm in Generating an Evapotranspiration Data Product From Coupled Thermal Infrared and Microwave Satellite Observations. Frontiers in Big Data, 0, 5, .	2.9	1
58	Equator crossing times for NOAA satellites. , 2005, , .		0
59	Global diagnostics of operational AVHRR SST and aerosol retrievals from NOAA-16 and -17. , 2005, , .		0
60	Analnsis of historical AVHRR PATMOS aerosol data in support of the long-term trend study. , 2007, , .		0
61	Study of Global Component Aerosol Direct Radiative Effect by Combining Satellite Measurement and Model Simulations. , 2009, , .		0
62	JPSS Atmospheric Composition Products for Environmental Monitoring and Applications. , 2019, , .		0
63	All-Weather Daily Evapotranspiration Data Product Based on Microwave and Thermal Infrared Satellite Observations. , 2021, , .		0
64	Shortwave Radiation Budget Products from GOES-R Series ABI. , 2020, , .		0