TamÃ¡s VÃ¡rnai

List of Publications by Year
in descending order

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Version: 2024-02-01

34	1,075	471509	414414
papers	citations	17 h-index	32 g-index

39	39	39	915
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	THE I3RC: Bringing Together the Most Advanced Radiative Transfer Tools for Cloudy Atmospheres. Bulletin of the American Meteorological Society, 2005, 86, 1275-1294.	3.3	192
2	MODIS observations of enhanced clear sky reflectance near clouds. Geophysical Research Letters, 2009, 36, .	4.0	130
3	Effects of Cloud Heterogeneities on Shortwave Radiation: Comparison of Cloud-Top Variability and Internal Heterogeneity. Journals of the Atmospheric Sciences, 1999, 56, 4206-4224.	1.7	116
4	Observations of Three-Dimensional Radiative Effects that Influence MODIS Cloud Optical Thickness Retrievals. Journals of the Atmospheric Sciences, 2002, 59, 1607-1618.	1.7	89
5	Statistical Analysis of the Uncertainties in Cloud Optical Depth Retrievals Caused by Three-Dimensional Radiative Effects. Journals of the Atmospheric Sciences, 2001, 58, 1540-1548.	1.7	67
6	Global CALIPSO Observations of Aerosol Changes Near Clouds. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 19-23.	3.1	52
7	Terrestrial glint seen from deep space: Oriented ice crystals detected from the Lagrangian point. Geophysical Research Letters, 2017, 44, 5197-5202.	4.0	46
8	CALIPSO observations of transatlantic dust: vertical stratification and effect of clouds. Atmospheric Chemistry and Physics, 2012, 12, 11339-11354.	4.9	45
9	Multi-satellite aerosol observations in the vicinity of clouds. Atmospheric Chemistry and Physics, 2013, 13, 3899-3908.	4.9	34
10	Analysis of co-located MODIS and CALIPSO observations near clouds. Atmospheric Measurement Techniques, 2012, 5, 389-396.	3.1	33
11	Effect of CALIPSO cloudâ€“aerosol discrimination (CAD) confidence levels on observations of aerosol properties near clouds. Atmospheric Research, 2012, 116, 134-141.	4.1	25
12	A method for analyzing how various parts of clouds influence each other's brightness. Journal of Geophysical Research, 2003, 108, .	3.3	24
13	Taking the pulse of pyrocumulus clouds. Atmospheric Environment, 2012, 52, 121-130.	4.1	21
14	Improvement of MODIS aerosol retrievals near clouds. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9168-9181.	3.3	19
15	Extending 3D near-cloud corrections from shorter to longer wavelengths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 147, 79-85.	2.3	19
16	Effect of Cloud Fraction on Near-Cloud Aerosol Behavior in the MODIS Atmospheric Correction Ocean Color Product. Remote Sensing, 2015, 7, 5283-5299.	4.0	19
17	Satellite Observations of Cloud-Related Variations in Aerosol Properties. Atmosphere, 2018, 9, 430.	2.3	18
18	EPIC Spectral Observations of Variability in Earthâ€™s Global Reflectance. Remote Sensing, 2018, 10, 254.	4.0	17

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19	Nearâ€cloud aerosol properties from the 1 km resolution MODIS ocean product. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1546-1554.	3.3	16
20	The Potential for Improved Boundary Layer Cloud Optical Depth Retrievals from the Multiple Directions of MISR. Journals of the Atmospheric Sciences, 2008, 65, 3179-3196.	1.7	14
21	Observationâ€Based Study on Aerosol Optical Depth and Particle Size in Partly Cloudy Regions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10013-10024.	3.3	11
22	Aerosol Properties in Cloudy Environments from Remote Sensing Observations: A Review of the Current State of Knowledge. Bulletin of the American Meteorological Society, 2021, 102, E2177-E2197.	3.3	11
23	CALIPSO observations of nearâ€cloud aerosol properties as a function of cloud fraction. Geophysical Research Letters, 2014, 41, 9150-9157.	4.0	10
24	Deep Space Observations of Sun Glints from Marine Ice Clouds. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 735-739.	3.1	9
25	Scale dependence of cirrus heterogeneity effects. Part II: MODIS NIR and SWIR channels. Atmospheric Chemistry and Physics, 2018, 18, 12105-12121.	4.9	7
26	Deep Space Observations of Terrestrial Glitter. Earth and Space Science, 2021, 8, .	2.6	7
27	Radiative characteristics of clouds embedded in smoke derived from airborne multiangular measurements. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9140-9152.	3.3	6
28	Scale dependence of cirrus horizontal heterogeneity effects on TOA measurements â€“ Part I: MODIS brightness temperatures in the thermal infrared. Atmospheric Chemistry and Physics, 2017, 17, 8489-8508.	4.9	5
29	Deep Space Observations of Cloud Glints: Spectral and Seasonal Dependence. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
30	Analysis of Near-Cloud Changes in Atmospheric Aerosols Using Satellite Observations and Global Model Simulations. Remote Sensing, 2021, 13, 1151.	4.0	3
31	Developing an Aircraft-Based Angular Distribution Model of Solar Reflection from Wildfire Smoke to Aid Satellite-Based Radiative Flux Estimation. Remote Sensing, 2019, 11, 1509.	4.0	1
32	A new measurement approach for validating satellite-based above-cloud aerosol optical depth. Atmospheric Measurement Techniques, 2021, 14, 1405-1423.	3.1	1
33	3D radiative processes in satellite measurements of aerosol properties. , 2013, , .		0
34	Operational Detection of Sun Glints in DSCOVR EPIC Images. Frontiers in Remote Sensing, 2021, 2, .	3.5	0