

Fred G Rose

List of Publications by Year in descending order

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56
papers

3,215
citations

304368

22
h-index

168136

53
g-index

57
all docs

57
docs citations

57
times ranked

3534
citing authors

#	ARTICLE	IF	CITATIONS
1	Clouds and the Earth's Radiant Energy System (CERES) Energy Balanced and Filled (EBAF) Top-of-Atmosphere (TOA) Edition-4.0 Data Product. <i>Journal of Climate</i> , 2018, 31, 895-918.	1.2	514
2	Surface Irradiances Consistent with CERES-Derived Top-of-Atmosphere Shortwave and Longwave Irradiances. <i>Journal of Climate</i> , 2013, 26, 2719-2740.	1.2	363
3	Surface Irradiances of Edition 4.0 Clouds and the Earth's Radiant Energy System (CERES) Energy Balanced and Filled (EBAF) Data Product. <i>Journal of Climate</i> , 2018, 31, 4501-4527.	1.2	275
4	Achieving Climate Change Absolute Accuracy in Orbit. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1519-1539.	1.7	239
5	Improvements of top-of-atmosphere and surface irradiance computations with CALIPSO-, CloudSat-, and MODIS-derived cloud and aerosol properties. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	208
6	CERES Synoptic Product: Methodology and Validation of Surface Radiant Flux. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 1121-1143.	0.5	200
7	Relationships among cloud occurrence frequency, overlap, and effective thickness derived from CALIPSO and CloudSat merged cloud vertical profiles. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	134
8	Advances in Understanding Top-of-Atmosphere Radiation Variability from Satellite Observations. <i>Surveys in Geophysics</i> , 2012, 33, 359-385.	2.1	117
9	The Continual Intercomparison of Radiation Codes: Results from Phase I. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	112
10	Intercomparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Experiment. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2347-2379.	1.9	94
11	Satellite and Ocean Data Reveal Marked Increase in Earth's Heating Rate. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093047.	1.5	93
12	Development and assessment of broadband surface albedo from Clouds and the Earth's Radiant Energy System Clouds and Radiation Swath data product. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	75
13	Computation of Domain-Averaged Irradiance Using Satellite-Derived Cloud Properties. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 146-164.	0.5	71
14	Uncertainty Estimate of Surface Irradiances Computed with MODIS-, CALIPSO-, and CloudSat-Derived Cloud and Aerosol Properties. <i>Surveys in Geophysics</i> , 2012, 33, 395-412.	2.1	68
15	ACCOUNTING FOR MOLECULAR ABSORPTION WITHIN THE SPECTRAL RANGE OF THE CERES WINDOW CHANNEL. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999, 61, 83-95.	1.1	61
16	Global all-sky shortwave direct radiative forcing of anthropogenic aerosols from combined satellite observations and GOCART simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 655-669.	1.2	43
17	An Algorithm for the Constraining of Radiative Transfer Calculations to CERES-Observed Broadband Top-of-Atmosphere Irradiance. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 1091-1106.	0.5	41
18	Variability in global top-of-atmosphere shortwave radiation between 2000 and 2005. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	38

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19	Impact of Ice Cloud Microphysics on Satellite Cloud Retrievals and Broadband Flux Radiative Transfer Model Calculations. <i>Journal of Climate</i> , 2018, 31, 1851-1864.	1.2	36
20	Photosynthetically active radiation from Clouds and the Earth's Radiant Energy System (CERES) products. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
21	Deriving surface ultraviolet radiation from CERES surface and atmospheric radiation budget: Methodology. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	28
22	Cloud Effects on the Meridional Atmospheric Energy Budget Estimated from Clouds and the Earth's Radiant Energy System (CERES) Data. <i>Journal of Climate</i> , 2008, 21, 4223-4241.	1.2	26
23	Contrail radiative forcing over the Northern Hemisphere from 2006 Aqua MODIS data. <i>Geophysical Research Letters</i> , 2013, 40, 595-600.	1.5	26
24	Cloud occurrences and cloud radiative effects (CREs) from CERES's CALIPSO's CloudSat's MODIS (CCCM) and CloudSat radar's lidar (RL) products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8852-8884.	1.2	24
25	Effects of 3D clouds on atmospheric transmission of solar radiation: Cloud type dependencies inferred from A-train satellite data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 943-963.	1.2	23
26	Toward a Consistent Definition between Satellite and Model Clear-Sky Radiative Fluxes. <i>Journal of Climate</i> , 2020, 33, 61-75.	1.2	22
27	Determining the Shortwave Radiative Flux From Earth Polychromatic Imaging Camera. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,479.	1.2	20
28	Detection of Atmospheric Changes in Spatially and Temporally Averaged Infrared Spectra Observed from Space. <i>Journal of Climate</i> , 2011, 24, 6392-6407.	1.2	19
29	Radiative Transfer Modeling for the CLAMS Experiment. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1053-1071.	0.6	17
30	Radiative forcing due to enhancements in tropospheric ozone and carbonaceous aerosols caused by Asian fires during spring 2008. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
31	Observation-Based Decomposition of Radiative Perturbations and Radiative Kernels. <i>Journal of Climate</i> , 2018, 31, 10039-10058.	1.2	16
32	Radiative Heating Rates Computed With Clouds Derived From Satellite-Based Passive and Active Sensors and their Effects on Generation of Available Potential Energy. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1720-1740.	1.2	15
33	Using observations of deep convective systems to constrain atmospheric column absorption of solar radiation in the optically thick limit. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	14
34	A radiation closure study of Arctic stratus cloud microphysical properties using the collocated satellite-surface data and Fu-Liou radiative transfer model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,175-10,198.	1.2	14
35	Improving the modelling of shortwave radiation through the use of a 3D scene construction algorithm. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1870-1883.	1.0	13
36	Investigation of the Residual in Column-Integrated Atmospheric Energy Balance Using Cloud Objects. <i>Journal of Climate</i> , 2016, 29, 7435-7452.	1.2	13

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37	Decomposing Shortwave Top-of-Atmosphere and Surface Radiative Flux Variations in Terms of Surface and Atmospheric Contributions. <i>Journal of Climate</i> , 2019, 32, 5003-5019.	1.2	12
38	Clouds and the Earth's Radiant Energy System (CERES) Data Products for Climate Research. <i>Journal of the Meteorological Society of Japan</i> , 2015, 93, 597-612.	0.7	11
39	Global and Regional Entropy Production by Radiation Estimated from Satellite Observations. <i>Journal of Climate</i> , 2020, 33, 2985-3000.	1.2	8
40	Retrieval of Atmospheric and Cloud Property Anomalies and Their Trend from Temporally and Spatially Averaged Infrared Spectra Observed from Space. <i>Journal of Climate</i> , 2014, 27, 4403-4420.	1.2	7
41	Toward a more realistic representation of surface albedo in NASA CERES-derived surface radiative fluxes. <i>Elementa</i> , 2022, 10, .	1.1	7
42	Examining impacts of mass-diameter ($m \propto D$) and area-diameter ($A \propto D$) relationships of ice particles on retrievals of effective radius and ice water content from radar and lidar measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3396-3420.	1.2	6
43	Regional Energy and Water Budget of a Precipitating Atmosphere over Ocean. <i>Journal of Climate</i> , 2021, 34, 4189-4205.	1.2	6
44	Surface energy budget changes over Central Australia during the early 21st century drought. <i>International Journal of Climatology</i> , 2017, 37, 159-168.	1.5	5
45	Evaluation of a General Circulation Model by the CERES Flux-by-Cloud Type Simulator. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10655-10668.	1.2	5
46	Uncertainty in Satellite-Derived Surface Irradiances and Challenges in Producing Surface Radiation Budget Climate Data Record. <i>Remote Sensing</i> , 2020, 12, 1950.	1.8	5
47	Unfiltering Earth Radiation Budget Experiment (ERBE) Scanner Radiances Using the CERES Algorithm and Its Evaluation with Nonscanner Observations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 843-859.	0.5	4
48	Impacts of Partly Cloudy Pixels on Shortwave Broadband Irradiance Computations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 369-386.	0.5	4
49	Examining Biases in Diurnally Integrated Shortwave Irradiances due to Two- and Four-Stream Approximations in a Cloudy Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 551-581.	0.6	3
50	Effects of electromagnetic wave interference on observations of the Earth radiation budget. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107157.	1.1	2
51	Evaluation of Regional Surface Energy Budget Over Ocean Derived From Satellites. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	2
52	Advances in Understanding Top-of-Atmosphere Radiation Variability from Satellite Observations. <i>Space Sciences Series of ISSI</i> , 2012, , 27-53.	0.0	2
53	Correction of ocean hemispherical spectral reflectivity for longwave irradiance computations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 171, 57-65.	1.1	1
54	Real-time mesoscale forecast support during the CLAMS field campaign. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 599-605.	1.9	0

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55	Uncertainty Estimate of Surface Irradiances Computed with MODIS-, CALIPSO-, and CloudSat-Derived Cloud and Aerosol Properties. Space Sciences Series of ISSI, 2012, , 63-80.	0.0	0
56	An Algorithm to Derive Temperature and Humidity Profile Changes Using Spatially and Temporally Averaged Spectral Radiance Differences. Journal of Atmospheric and Oceanic Technology, 2020, 37, 1173-1187.	0.5	0