

List of Publications by Year in descending order

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VII VIE

#	Article	IF	CITATIONS
1	An Improved Algorithm for Estimating Surface Shortwave Radiation: Preliminary Evaluation With MODIS Products. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	6.3	2
2	The WRF-Solar Ensemble Prediction System to Provide Solar Irradiance Probabilistic Forecasts. IEEE Journal of Photovoltaics, 2022, 12, 141-144.	2.5	11
3	Physics-guided machine learning for improved accuracy of the National Solar Radiation Database. Solar Energy, 2022, 232, 483-492.	6.1	12
4	Improving the prediction of DNI with physics-based representation of all-sky circumsolar radiation. Solar Energy, 2022, 231, 758-766.	6.1	5
5	The "Fresnel Equations―for Diffuse radiation on Inclined photovoltaic Surfaces (FEDIS). Renewable and Sustainable Energy Reviews, 2022, 161, 112362.	16.4	9
6	CERES MODIS Cloud Product Retrievals for Edition 4—Part I: Algorithm Changes. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2744-2780.	6.3	75
7	Use of physics to improve solar forecast: Physics-informed persistence models for simultaneously forecasting GHI, DNI, and DHI. Solar Energy, 2021, 215, 252-265.	6.1	17
8	A physical downscaling algorithm for the generation of high-resolution spatiotemporal solar irradiance data. Solar Energy, 2021, 216, 508-517.	6.1	13
9	An efficient method to identify uncertainties of WRF-Solar variables in forecasting solar irradiance using a tangent linear sensitivity analysis. Solar Energy, 2021, 220, 509-522.	6.1	17
10	The WRF-Solar Ensemble Prediction System To Provide Solar Irradiance Probabilistic Forecasts. , 2021, ,		4
11	Physics-Guided Machine Learning for Prediction of Cloud Properties in Satellite-Derived Solar Data. , 2021, , .		1
12	Evaluation of Models and Measurements to Estimate Solar Radiation for 1-Axis Tracking Modules at NREL's SRRL. , 2021, , .		0
13	Long-term spatial and temporal solar resource variability over America using the NSRDB version 3 (1998–2017). Renewable and Sustainable Energy Reviews, 2020, 134, 110285.	16.4	21
14	Solar Irradiance Capturing in Cloudy Sky Days–A Convolutional Neural Network Based Image Regression Approach. IEEE Access, 2020, 8, 22235-22248.	4.2	20
15	A Physics-Based DNI Model Assessing All-Sky Circumsolar Radiation. IScience, 2020, 23, 100893.	4.1	13
16	Progress on the National Solar Radiation Data Base (NSRDB): A new DNI computation. , 2020, , .		1
17	The national solar radiation data base (NSRDB) for CSP applications. AIP Conference Proceedings, 2019,	0.4	4
18	A Fast All-sky Radiation Model for Solar applications with Narrowband Irradiances on Tilted surfaces (FARMS-NIT): Part II. The cloudy-sky model. Solar Energy, 2019, 188, 799-812.	6.1	31

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19	Surface albedo and reflectance: Review of definitions, angular and spectral effects, and intercomparison of major data sources in support of advanced solar irradiance modeling over the Americas. Solar Energy, 2019, 182, 194-212.	6.1	58
20	The Numerical Computation of Clear-Sky Transmittance and Reflectance of Solar Radiation for the Modeling of PV System Performance. , 2019, , .		0
21	A Physics-based Smart Persistence model for Intra-hour forecasting of solar radiation (PSPI) using GHI measurements and a cloud retrieval technique. Solar Energy, 2019, 177, 494-500.	6.1	31
22	Assessment of uncertainty in the numerical simulation of solar irradiance over inclined PV panels: New algorithms using measurements and modeling tools. Solar Energy, 2018, 165, 55-64.	6.1	23
23	The National Solar Radiation Data Base (NSRDB). Renewable and Sustainable Energy Reviews, 2018, 89, 51-60.	16.4	618
24	Assessing the Performance of the Fast All-sky Radiation Model for Solar Applications with Narrowband Irradiances on Tilted Surfaces (FARMS-NIT). , 2018, , .		0
25	A Fast All-sky Radiation Model for Solar applications with Narrowband Irradiances on Tilted surfaces (FARMS-NIT): Part I. The clear-sky model. Solar Energy, 2018, 174, 691-702.	6.1	31
26	Assessment of the National Solar Radiation Database (NSRDB 1998-2016). , 2018, , .		6
27	Building the Sun4Cast System: Improvements in Solar Power Forecasting. Bulletin of the American Meteorological Society, 2018, 99, 121-136.	3.3	53
28	Recent advancements in the numerical simulation of surface irradiance for solar energy applications. , 2017, , .		2
29	Coupling sky images with radiative transfer models: a new method to estimate cloud optical depth. Atmospheric Measurement Techniques, 2016, 9, 4151-4165.	3.1	16
30	Diagnosing model errors in simulation of solar radiation on inclined surfaces. , 2016, , .		2
31	A Fast All-sky Radiation Model for Solar applications (FARMS): Algorithm and performance evaluation. Solar Energy, 2016, 135, 435-445.	6.1	116
32	Modeling beam attenuation in solar tower plants using common DNI measurements. Solar Energy, 2016, 129, 244-255.	6.1	39
33	Polarization of light in the atmosphere and ocean. , 2016, , 3-39.		5
34	A method to measure the broadband longwave irradiance in the terrestrial direct solar beam. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 129, 23-29.	1.6	6
35	Retrievals of cloud fraction and cloud albedo from surfaceâ€based shortwave radiation measurements: A comparison of 16 year measurements. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8925-8940.	3.3	22
36	A new approach for simultaneously retrieving cloud albedo and cloud fraction from surface-based shortwave radiation measurements. Environmental Research Letters, 2013, 8, 044023.	5.2	28

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#	Article	IF	CITATIONS
37	Reconstruction of Summer Sea Level Pressure over East Asia since 1470. Journal of Climate, 2012, 25, 5600-5611.	3.2	3
38	Parameterization of contrail radiative properties for climate studies. Geophysical Research Letters, 2012, 39, .	4.0	11
39	Determination of ice cloud models using MODIS and MISR data. International Journal of Remote Sensing, 2012, 33, 4219-4253.	2.9	20
40	Symmetry relations revealed in Mueller matrix hemispherical maps. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 644-651.	2.3	43
41	CERES Edition-2 Cloud Property Retrievals Using TRMM VIRS and Terra and Aqua MODIS Data—Part I: Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4374-4400.	6.3	410
42	Simulation of the optical properties of plate aggregates for application to the remote sensing of cirrus clouds. Applied Optics, 2011, 50, 1065.	2.1	36
43	Improvements in Shortwave Bulk Scattering and Absorption Models for the Remote Sensing of Ice Clouds. Journal of Applied Meteorology and Climatology, 2011, 50, 1037-1056.	1.5	175
44	Coupling of the microphysical and optical properties of an Arctic nimbostratus cloud during the ASTAR 2004 experiment: Implications for lightâ€scattering modeling. Journal of Geophysical Research, 2010, 115, .	3.3	37
45	Estimates of radiation over clouds and dust aerosols: Optimized number of terms in phase function expansion. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1190-1198.	2.3	26
46	Effect of the inhomogeneity of ice crystals on retrieving ice cloud optical thickness and effective particle size. Journal of Geophysical Research, 2009, 114, .	3.3	39
47	Snow optical properties for different particle shapes with application to snow grain size retrieval and MODIS/CERES radiance comparison over Antarctica. Remote Sensing of Environment, 2008, 112, 3563-3581.	11.0	92
48	Probabilistic trend of anomalous summer rainfall in Beijing: Role of interdecadal variability. Journal of Geophysical Research, 2008, 113, .	3.3	11
49	Polarization and effective Mueller matrix for multiple scattering of light by nonspherical ice crystals. Optics Express, 2006, 14, 6381.	3.4	39
50	Effect of ice crystal shape and effective size on snow bidirectional reflectance. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 100, 457-469.	2.3	67