Aron Habte

List of Publications by Year
in descending order

		840776	677142
39	945	11	22
papers	citations	h-index	g-index
39	39	39	945
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	The National Solar Radiation Data Base (NSRDB). Renewable and Sustainable Energy Reviews, 2018, 89, 51-60.	16.4	618
2	A posteriori clear-sky identification methods in solar irradiance time series: Review and preliminary validation using sky imagers. Renewable and Sustainable Energy Reviews, 2019, 109, 412-427.	16.4	49
3	Intercomparison of 51 radiometers for determining global horizontal irradiance and direct normal irradiance measurements. Solar Energy, 2016, 133, 372-393.	6.1	38
4	Proposal and evaluation of subordinate standard solar irradiance spectra for applications in solar energy systems. Solar Energy, 2018, 168, 30-43.	6.1	38
5	Irradiance and temperature considerations in the design and deployment of high annual energy yield perovskite/CIGS tandems. Sustainable Energy and Fuels, 2019, 3, 1841-1851.	4.9	30
6	Long-term spatial and temporal solar resource variability over America using the NSRDB version 3 (1998â€"2017). Renewable and Sustainable Energy Reviews, 2020, 134, 110285.	16.4	21
7	Estimating Ultraviolet Radiation From Global Horizontal Irradiance. IEEE Journal of Photovoltaics, 2019, 9, 139-146.	2.5	18
8	Wind and solar resource data sets. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e276.	4.1	13
9	A Physics-Based DNI Model Assessing All-Sky Circumsolar Radiation. IScience, 2020, 23, 100893.	4.1	13
10	Physics-guided machine learning for improved accuracy of the National Solar Radiation Database. Solar Energy, 2022, 232, 483-492.	6.1	12
11	Optimization of Multijunction Solar Cells Through Indoor Energy Yield Measurements. IEEE Journal of Photovoltaics, 2015, 5, 438-445.	2.5	11
12	Spectral binning for energy production calculations and multijunction solar cell design. Progress in Photovoltaics: Research and Applications, 2018, 26, 48-54.	8.1	11
13	Reducing Uncertainties in Large-Scale Solar Resource Data: The Impact of Aerosols. IEEE Journal of Photovoltaics, 2018, 8, 1732-1737.	2.5	10
14	The â€œFresnel Equationsâ€•for Diffuse radiation on Inclined photovoltaic Surfaces (FEDIS). Renewable and Sustainable Energy Reviews, 2022, 161, 112362.	16.4	9
15	Assessment of the National Solar Radiation Database (NSRDB 1998-2016). , 2018, , .		6
16	Degradation in photovoltaic encapsulation strength of attachment: Results of the first PVQAT TG5 artificial weathering study. Progress in Photovoltaics: Research and Applications, 2020, 28, 639-658.	8.1	6
17	Measuring Irradiance for Bifacial PV Systems. , 2021, , .		6
18	Developing a spectroradiometer data uncertainty methodology. Solar Energy, 2017, 149, 60-76.	6.1	5

#	ARTICLE	IF	CITATIONS
19	The national solar radiation data base (NSRDB) for CSP applications. AIP Conference Proceedings, 2019, , .	0.4	4
20	Automated construction of clear-sky dictionary from all-sky imager data. Solar Energy, 2020, 212, 73-83.	6.1	4
21	Surface albedo spatial variability in North America: Gridded data vs. local measurements. Solar Energy, 2021, 227, 655-673.	6.1	4
22	Quantifying the impact of incidence-angle dependence on solar radiometric calibration. , 2014, , .		3
23	Energy yield determination of concentrator solar cells using laboratory measurements. AIP Conference Proceedings, 2015, , .	0.4	3
24	Field spectra binning for energy production calculations and multijunction solar cell design. , 2015, , .		3
25	Improved field evaluation of reference cells using spectral measurements. Solar Energy, 2021, 215, 482-491.	6.1	3
26	Improved Field Evaluation of Reference Cell Using Spectral Measurements. , 2019, , .		2
27	Radiometer calibration methods and resulting irradiance differences. Progress in Photovoltaics: Research and Applications, 2017, 25, 614-622.	8.1	1
28	Characterization of a Low-Cost Multi-Parameter Sensor for Solar Resource Applications. , 2018, , .		1
29	The Case for Custom TMYâ€™s: Examples Using the NSRDB. , 2019, , .		1
30	Physics-Guided Machine Learning for Prediction of Cloud Properties in Satellite-Derived Solar Data. , 2021, , .		1
31	Progress on the National Solar Radiation Data Base (NSRDB): A new DNI computation. , 2020, , .		1
32	Comparing Measured and Satellite-Derived Surface Irradiance. , 2012, , .		0
33	Shortwave radiometer calibration methods comparison and resulting solar irradiance measurement differences: A user perspective. , 2016, , .		0
34	A simple estimation of UV irradiance under clear-sky conditions. , 2020, , 257-266.		0
35	Evaluation of Models and Measurements to Estimate Solar Radiation for 1-Axis Tracking Modules at NRELâ€™s SRRL. , 2021, , .		0
36	Using Spectral Measurements to Characterize Solar Reference Cells on a Two-Axis Tracker. , 2020, , .		0

#	Article	IF	Citations
37	Consensus International Solar Resource Standards and Best Practices Development. , 2020, , .		0
38	Quantifying Solar PV Variability at Multiple Timescales for Power Systems Studies. , 2020, , .		0
39	Annual Solar Irradiance Anomaly Features Over the USA During 1998â€"2017 Using NSRDB V3. , 2020, , .		0