

# Laura M Hinkelman

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,448  
citations

361413

20  
h-index

377865

34  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of ultrasonic pulse arrival time and energy level variations produced by propagation through abdominal wall. Journal of the Acoustical Society of America, 1994, 95, 530-541.	1.1	138
2	Simulation of ultrasonic pulse propagation through the abdominal wall. Journal of the Acoustical Society of America, 1997, 102, 1177-1190.	1.1	137
3	Measurement and correction of ultrasonic pulse distortion produced by the human breast. Journal of the Acoustical Society of America, 1995, 97, 1958-1969.	1.1	92
4	The effect of abdominal wall morphology on ultrasonic pulse distortion. Part I. Measurements. Journal of the Acoustical Society of America, 1998, 104, 3635-3649.	1.1	89
5	Surface insolation trends from satellite and ground measurements: Comparisons and challenges. Journal of Geophysical Research, 2009, 114, .	3.3	87
6	Differences between along-wind and cross-wind solar irradiance variability on small spatial scales. Solar Energy, 2013, 88, 192-203.	6.1	86
7	Simulation of ultrasonic pulse propagation, distortion, and attenuation in the human chest wall. Journal of the Acoustical Society of America, 1999, 106, 3665-3677.	1.1	74
8	Impact of errors in the downwelling irradiances on simulations of snow water equivalent, snow surface temperature, and the snow energy balance. Water Resources Research, 2015, 51, 1649-1670.	4.2	73
9	The effect of abdominal wall morphology on ultrasonic pulse distortion. Part II. Simulations. Journal of the Acoustical Society of America, 1998, 104, 3651-3664.	1.1	64
10	The validation of the GEWEX SRB surface shortwave flux data products using BSRN measurements: A systematic quality control, production and application approach. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 122, 127-140.	2.3	57
11	Measurements of ultrasonic pulse distortion produced by human chest wall. Journal of the Acoustical Society of America, 1997, 101, 2365-2373.	1.1	55
12	Building the Sun4Cast System: Improvements in Solar Power Forecasting. Bulletin of the American Meteorological Society, 2018, 99, 121-136.	3.3	53
13	A copula method for simulating correlated instantaneous solar irradiance in spatial networks. Solar Energy, 2017, 143, 10-21.	6.1	51
14	Estimate of satellite-derived cloud optical thickness and effective radius errors and their effect on computed domain-averaged irradiances. Journal of Geophysical Research, 2006, 111, .	3.3	46
15	The Global Radiative Energy Budget in MERRA and MERRA-2: Evaluation with Respect to CERES EBAF Data. Journal of Climate, 2019, 32, 1973-1994.	3.2	38
16	An evaluation of NCEP Eta model predictions of surface energy budget and cloud properties by comparison with measured ARM data. Journal of Geophysical Research, 1999, 104, 19535-19549.	3.3	37
17	Assessment of global annual atmospheric energy balance from satellite observations. Journal of Geophysical Research, 2008, 113, .	3.3	32
18	Regime-Dependent Short-Range Solar Irradiance Forecasting. Journal of Applied Meteorology and Climatology, 2016, 55, 1599-1613.	1.5	27

#	ARTICLE	IF	CITATIONS
19	The Effect of Cumulus Cloud Field Anisotropy on Domain-Averaged Solar Fluxes and Atmospheric Heating Rates. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3499-3520.	1.7	26
20	Influence of Synoptic Weather Patterns on Solar Irradiance Variability in Northern Europe. <i>Journal of Climate</i> , 2016, 29, 4229-4250.	3.2	25
21	A Large-Eddy Simulation Study of Anisotropy in Fair-Weather Cumulus Cloud Fields. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 2155-2171.	1.7	22
22	Using CERES SYN Surface Irradiance Data as Forcing for Snowmelt Simulation in Complex Terrain*. <i>Journal of Hydrometeorology</i> , 2015, 16, 2133-2152.	1.9	20
23	Coupling sky images with radiative transfer models: a new method to estimate cloud optical depth. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 4151-4165.	3.1	16
24	Evaluation of ISCCP Multisatellite Radiance Calibration for Geostationary Imager Visible Channels Using the Moon. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 1255-1266.	6.3	15
25	A critical evaluation of modeled solar irradiance over California for hydrologic and land surface modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 299-317.	3.3	15
26	Modified Gomori Trichrome Stain for Macroscopic Tissue Slices. <i>Journal of Histotechnology</i> , 1996, 19, 321-323.	0.5	13
27	Evaluation of Radiation and Clouds From Five Reanalysis Products in the Northeast Pacific Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7238-7253.	3.3	11
28	A simple algorithm for identifying periods of snow accumulation on a radiometer. <i>Water Resources Research</i> , 2015, 51, 7820-7828.	4.2	8
29	Evaluation of CERES and CloudSat Surface Radiative Fluxes Over Macquarie Island, the Southern Ocean. <i>Earth and Space Science</i> , 2020, 7, e2020EA001224.	2.6	7
30	Shortwave Radiative Fluxes on Slopes. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 1513-1532.	1.5	6
31	Evaluation of Multiangle Imaging Spectroradiometer cloud motion vectors using NOAA radar wind profiler data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	5
32	Shortwave absorptance in a tropical cloudy atmosphere: Reconciling calculations and observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	5
33	Relating solar resource and its variability to weather and climate across the northwestern United States. <i>Solar Energy</i> , 2017, 157, 966-978.	6.1	4
34	Solar resource, variability, and weather across the northwestern United States. , 2016, , .		1