

Howard W Barker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

17
papers

785
citations

9
h-index

17
g-index

17
ext. papers

842
ext. citations

5.4
avg, IF

3.84
L-index

#	Paper	IF	Citations
17	A fast, flexible, approximate technique for computing radiative transfer in inhomogeneous cloud fields. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		247
16	A Parameterization for Computing Grid-Averaged Solar Fluxes for Inhomogeneous Marine Boundary Layer Clouds. Part II: Validation Using Satellite Data. <i>Journals of the Atmospheric Sciences</i> , 1996 , 53, 2304-2316	2.1	142
15	Stochastic generation of subgrid-scale cloudy columns for large-scale models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004 , 130, 2047-2067	6.4	140
14	A Parameterization for Computing Grid-Averaged Solar Fluxes for Inhomogeneous Marine Boundary Layer Clouds. Part I: Methodology and Homogeneous Biases. <i>Journals of the Atmospheric Sciences</i> , 1996 , 53, 2289-2303	2.1	116
13	Estimating Cloud Field Albedo Using One-Dimensional Series Of Optical Depth. <i>Journals of the Atmospheric Sciences</i> , 1996 , 53, 2826-2837	2.1	30
12	Cumulus cloud radiative properties and the characteristics of satellite radiance wavenumber spectra. <i>Remote Sensing of Environment</i> , 1992 , 42, 51-64	13.2	29
11	Estimation of Errors in Two-Stream Approximations of the Solar Radiative Transfer Equation for Cloudy-Sky Conditions. <i>Journals of the Atmospheric Sciences</i> , 2015 , 72, 4053-4074	2.1	22
10	Assessing Simulated Clouds and Radiative Fluxes Using Properties of Clouds Whose Tops are Exposed to Space. <i>Journal of Climate</i> , 2011 , 24, 2715-2727	4.4	22
9	Scaling properties of observed and simulated satellite visible radiances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9413-9429	4.4	9
8	A parametrization of 3-D subgrid-scale clouds for conventional GCMs: Assessment using A-Train satellite data and solar radiative transfer characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 566-597	7.1	7
7	Evaluation of a high-resolution numerical weather prediction models simulated clouds using observations from CloudSat, GOES-13 and in situ aircraft. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 1681-1694	6.4	7
6	Computation of domain-average radiative flux profiles using Gaussian quadrature. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 720-734	6.4	5
5	Accelerating radiative transfer calculations for high-resolution atmospheric models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 2046-2069	6.4	4
4	Methodological dependencies of cloud radiative forcing for the Canadian Climate Centre second-generation general circulation model. <i>Journal of Geophysical Research</i> , 1995 , 100, 1017-1025		4
3	Error Analysis for an Algorithm That Reduces Radiative Transfer Calculations in High-Resolution Atmospheric Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 4576-4596	7.1	1
2	Partial validation of a lossy compression approach to computing radiative transfer in cloud system-resolving models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021 , 147, 363-381	6.4	0
1	Representativity of cloud-profiling radar observations for data assimilation in numerical weather prediction. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021 , 147, 1801-1822	6.4	1

