Howard W Barker

List of Publications by Year in Descending Order

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