Hanna Pawlowska

List of Publications by Year
in descending order

42 papers	2,121 citations	331670 21 h-index	276875 41 g-index
57 all docs	57 docs citations	57 times ranked	1840 citing authors

#	Article	IF	Citations
1	Impact of Giant Sea Salt Aerosol Particles on Precipitation in Marine Cumuli and Stratocumuli: Lagrangian Cloud Model Simulations. Journals of the Atmospheric Sciences, 2021, 78, 4127-4142.	1.7	7
2	Confronting the Challenge of Modeling Cloud and Precipitation Microphysics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001689.	3.8	154
3	University of Warsaw Lagrangian Cloud Model (UWLCM) 1.0: a modern large-eddy simulation tool for warm cloud modeling with Lagrangian microphysics. Geoscientific Model Development, 2019, 12, 2587-2606.	3.6	25
4	Modeling of Cloud Microphysics: Can We Do Better?. Bulletin of the American Meteorological Society, 2019, 100, 655-672.	3.3	98
5	MPDATA: Third-order accuracy for variable flows. Journal of Computational Physics, 2018, 359, 361-379.	3.8	11
6	libcloudph++ 2.0: aqueous-phase chemistry extension of the particle-based cloud microphysics scheme. Geoscientific Model Development, 2018, 11, 3623-3645.	3.6	16
7	Broadening of Cloud Droplet Spectra through Eddy Hopping: Turbulent Entraining Parcel Simulations. Journals of the Atmospheric Sciences, 2018, 75, 3365-3379.	1.7	49
8	Lagrangian condensation microphysics with Twomey CCN activation. Geoscientific Model Development, 2018, 11, 103-120.	3.6	35
9	Stochastic coalescence in Lagrangian cloud microphysics. Atmospheric Chemistry and Physics, 2017, 17, 13509-13520.	4.9	30
10	libcloudph++ 1.0: a single-moment bulk, double-moment bulk, and particle-based warm-rain microphysics library in C++. Geoscientific Model Development, 2015, 8, 1677-1707.	3.6	33
11	libmpdata++ 1.0: a library of parallel MPDATA solvers for systems of generalised transport equations. Geoscientific Model Development, 2015, 8, 1005-1032.	3.6	21
12	Homogeneity of the Subgrid-Scale Turbulent Mixing in Large-Eddy Simulation of Shallow Convection. Journals of the Atmospheric Sciences, 2013, 70, 2751-2767.	1.7	35
13	Modeling microphysical effects of entrainment in clouds observed during EUCAARI-IMPACT field campaign. Atmospheric Chemistry and Physics, 2013, 13, 8489-8503.	4.9	4
14	Droplet Activation and Mixing in Large-Eddy Simulation of a Shallow Cumulus Field. Journals of the Atmospheric Sciences, 2012, 69, 444-462.	1.7	50
15	Observations and kinematic modeling of drizzling marine stratocumulus. Atmospheric Research, 2011, 102, 120-135.	4.1	6
16	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€" integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	4.9	278
17	Macroscopic impacts of cloud and precipitation processes in shallow convection. Acta Geophysica, 2011, 59, 1184-1204.	2.0	5
18	Modeling of subgrid-scale cloud-clear air turbulent mixing in Large Eddy Simulation of cloud fields. Journal of Physics: Conference Series, 2011, 318, 072010.	0.4	2

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19	Adaptive method of lines for multi-component aerosol condensational growth and CCN activation. Geoscientific Model Development, 2011, 4, 15-31.	3.6	12
20	Modeling of Subgrid-Scale Mixing in Large-Eddy Simulation of Shallow Convection. Journals of the Atmospheric Sciences, 2009, 66, 2125-2133.	1.7	25
21	Effective radius and droplet spectral width from in-situ aircraft observations in trade-wind cumuli during RICO. Geophysical Research Letters, 2009, 36, .	4.0	38
22	Optical Properties of Shallow Convective Clouds Diagnosed from a Bulk-Microphysics Large-Eddy Simulation. Journal of Climate, 2008, 21, 1639-1647.	3.2	21
23	Examination of the aerosol indirect effect under contrasting environments during the ACE-2 experiment. Atmospheric Chemistry and Physics, 2007, 7, 535-548.	4.9	20
24	Observations of the width of cloud droplet spectra in stratocumulus. Geophysical Research Letters, 2006, 33, .	4.0	108
25	An observational study of drizzle formation in stratocumulus clouds for general circulation model (GCM) parameterizations. Journal of Geophysical Research, 2003, 108, .	3.3	129
26	Retrieval of microphysical, geometrical, and radiative properties of marine stratocumulus from remote sensing. Journal of Geophysical Research, 2003, 108, .	3.3	38
27	Cloud microphysical and radiative properties for parameterization and satellite monitoring of the indirect effect of aerosol on climate. Journal of Geophysical Research, 2003, 108, .	3.3	100
28	Evaluating aerosol/cloud/radiation process parameterizations with single-column models and Second Aerosol Characterization Experiment (ACE-2) cloudy column observations. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	47
29	Cloud cover analysis with METEOSAT-5 during INDOEX. Journal of Geophysical Research, 2001, 106, 28415-28426.	3.3	7
30	Retrieval of large-scale wind divergences from infrared Meteosat-5 brightness temperatures over the Indian Ocean. Journal of Geophysical Research, 2001, 106, 28113-28128.	3.3	6
31	Radiative Properties of Boundary Layer Clouds: Droplet Effective Radius versus Number Concentration. Journals of the Atmospheric Sciences, 2000, 57, 803-821.	1.7	328
32	CCN measurements during ACE-2 and their relationship to cloud microphysical properties. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 843-867.	1.6	82
33	An overview of the ACE-2 CLOUDYCOLUMN closure experiment. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 815-827.	1.6	83
34	Microphysical properties of stratocumulus clouds during ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 868-887.	1.6	79
35	Microphysical properties of stratocumulus clouds. Atmospheric Research, 2000, 55, 15-33.	4.1	72
36	Microphysical and radiative properties of stratocumulus clouds: the EUCREX mission 206 case study. Atmospheric Research, 2000, 55, 85-102.	4.1	12

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37	Microphysical and radiative properties of stratocumulus. Physics and Chemistry of the Earth, 1999, 24, 927-932.	0.3	2
38	Optimal Nonlinear Estimation for Cloud Particle Measurements. Journal of Atmospheric and Oceanic Technology, 1997, 14, 88-104.	1.3	21
39	Dynamics of Nonactive Parts of Convective Clouds. Journals of the Atmospheric Sciences, 1995, 52, 519-532.	1.7	6
40	Entrainment and Mixing in Clouds: The Paluch Mixing Diagram Revisited. Journal of Applied Meteorology and Climatology, 1993, 32, 1767-1773.	1.7	13
41	On the role of precipitation in maintenance of downdrafts in cumulonimbus clouds. Atmospheric Research, 1989, 24, 333-342.	4.1	0
42	On Estimating the Entraininent Level in Cumulus Clouds. Journals of the Atmospheric Sciences, 1989, 46, 2463-2465.	1.7	7