Patrick C Taylor

List of Publications by Year
in descending order

54 papers	1,910 citations	394421 19 h-index	265206 42 g-index
63 all docs	63 docs citations	63 times ranked	2511 citing authors

#	Article	IF	Citations
1	Divergent consensuses on Arctic amplification influence on midlatitude severe winter weather. Nature Climate Change, 2020, 10, 20-29.	18.8	424
2	Achieving Climate Change Absolute Accuracy in Orbit. Bulletin of the American Meteorological Society, 2013, 94, 1519-1539.	3.3	239
3	A Decomposition of Feedback Contributions to Polar Warming Amplification. Journal of Climate, 2013, 26, 7023-7043.	3.2	206
4	Covariance between Arctic sea ice and clouds within atmospheric state regimes at the satellite footprint level. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12656-12678.	3.3	84
5	Seasonal energy exchange in sea ice retreat regions contributes to differences in projected Arctic warming. Nature Communications, 2018, 9, 5017.	12.8	73
6	Evaluation of the Arctic surface radiation budget in CMIP5 models. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8525-8548.	3.3	53
7	On the Increasing Importance of Air-Sea Exchanges in a Thawing Arctic: A Review. Atmosphere, 2018, 9, 41.	2.3	52
8	The Unprecedented 2016â€"2017 Arctic Sea Ice Growth Season: The Crucial Role of Atmospheric Rivers and Longwave Fluxes. Geophysical Research Letters, 2018, 45, 5204-5212.	4.0	50
9	Individual Feedback Contributions to the Seasonality of Surface Warming. Journal of Climate, 2014, 27, 5653-5669.	3.2	48
10	Tropical Outgoing Longwave Radiation and Longwave Cloud Forcing Diurnal Cycles from CERES. Journals of the Atmospheric Sciences, 2012, 69, 3652-3669.	1.7	45
11	Spaceâ€Based Observations for Understanding Changes in the Arcticâ€Boreal Zone. Reviews of Geophysics, 2020, 58, e2019RG000652.	23.0	39
12	Arctic cloud annual cycle biases in climate models. Atmospheric Chemistry and Physics, 2019, 19, 8759-8782.	4.9	38
13	On the Nature of the Arctic's Positive Lapseâ€Rate Feedback. Geophysical Research Letters, 2021, 48, e2020GL091109.	4.0	38
14	A Framework for Evaluating Climate Model Performance Metrics. Journal of Climate, 2016, 29, 1773-1782.	3.2	33
15	Process Drivers, Inter-Model Spread, and the Path Forward: A Review of Amplified Arctic Warming. Frontiers in Earth Science, 2022, 9, .	1.8	31
16	Geographical Distribution of Climate Feedbacks in the NCAR CCSM3.0. Journal of Climate, 2011, 24, 2737-2753.	3.2	29
17	The regional influence of the Arctic Oscillation and Arctic Dipole on the wintertime Arctic surface radiation budget and sea ice growth. Geophysical Research Letters, 2017, 44, 4341-4350.	4.0	26
18	ARCTIC CHANGE AND POSSIBLE INFLUENCE ON MID-LATITUDE CLIMATE AND WEATHER: A US CLIVAR White Paper. , 2018, n/a, .		25

#	Article	IF	Citations
19	Seasonal Variations of Climate Feedbacks in the NCAR CCSM3. Journal of Climate, 2011, 24, 3433-3444.	3.2	23
20	Seasonal Variations of Arctic Lowâ€Level Clouds and Its Linkage to Sea Ice Seasonal Variations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12206-12226.	3.3	22
21	Evaluation of the Tropical TOA Flux Diurnal Cycle in MERRA and ERA-Interim Retrospective Analyses. Journal of Climate, 2014, 27, 4781-4796.	3.2	20
22	A less cloudy picture of the inter-model spread in future global warming projections. Nature Communications, 2020, 11, 4472.	12.8	20
23	Detection of Atmospheric Changes in Spatially and Temporally Averaged Infrared Spectra Observed from Space. Journal of Climate, 2011, 24, 6392-6407.	3.2	19
24	On the sensitivity of the diurnal cycle in the Amazon to convective intensity. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8186-8208.	3.3	19
25	Clouds damp the radiative impacts of polar sea ice loss. Cryosphere, 2020, 14, 2673-2686.	3.9	19
26	Arctic Radiation-IceBridge Sea and Ice Experiment: The Arctic Radiant Energy System during the Critical Seasonal Ice Transition. Bulletin of the American Meteorological Society, 2017, 98, 1399-1426.	3.3	17
27	A Comparison of Climate Signal Trend Detection Uncertainty Analysis Methods. Journal of Climate, 2014, 27, 3363-3376.	3.2	15
28	Impact of Sun-Synchronous Diurnal Sampling on Tropical TOA Flux Interannual Variability and Trends. Journal of Climate, 2013, 26, 2184-2191.	3.2	14
29	Inter-Model Warming Projection Spread: Inherited Traits from Control Climate Diversity. Scientific Reports, 2017, 7, 4300.	3.3	14
30	Decadal evolution of the surface energy budget during the fast warming and global warming hiatus periods in the ERA-interim. Climate Dynamics, 2019, 52, 2005-2016.	3.8	14
31	A Study of the Probability of Clear Line of Sight through Single-Layer Cumulus Cloud Fields in the Tropical Western Pacific. Journals of the Atmospheric Sciences, 2008, 65, 3497-3512.	1.7	13
32	Variability of Monthly Diurnal Cycle Composites of TOA Radiative Fluxes in the Tropics. Journals of the Atmospheric Sciences, 2013, 71, 754-766.	1.7	12
33	Regional variation of the tropical water vapor and lapse rate feedbacks. Geophysical Research Letters, 2014, 41, 7634-7641.	4.0	11
34	Cloud Object Analysis of CERES Aqua Observations of Tropical and Subtropical Cloud Regimes: Four-Year Climatology. Journal of Climate, 2016, 29, 1617-1638.	3.2	10
35	Variability of Regional TOA Flux Diurnal Cycle Composites at the Monthly Time Scale. Journals of the Atmospheric Sciences, 2014, 71, 3484-3498.	1.7	9
36	A Lagrangian view of longwave radiative fluxes for understanding the direct heating response to a CO 2 increase. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6191-6214.	3.3	8

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37	Microphysical variability of Amazonian deep convective cores observed by CloudSat and simulated by a multi-scale modeling framework. Atmospheric Chemistry and Physics, 2018, 18, 6493-6510.	4.9	8
38	Arctic Cloud Response to a Perturbation in Sea Ice Concentration: The North Water Polynya. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034409.	3.3	8
39	Sensitivity of Amazonian TOA flux diurnal cycle composite monthly variability to choice of reanalysis. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4404-4428.	3.3	7
40	Sensitivity of the Amazonian Convective Diurnal Cycle to Its Environment in Observations and Reanalysis. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,621.	3.3	7
41	Unmasking the negative greenhouse effect over the Antarctic Plateau. Npj Climate and Atmospheric Science, 2018, 1, 17.	6.8	7
42	The effect of low-level thin arctic clouds on shortwave irradiance: evaluation of estimates from spaceborne passive imagery with aircraft observations. Atmospheric Measurement Techniques, 2021, 14, 2673-2697.	3.1	7
43	Toward a more realistic representation of surface albedo in NASA CERES-derived surface radiative fluxes. Elementa, 2022, 10, .	3.2	7
44	The Role of Clouds: An Introduction and Rapporteur Report. Surveys in Geophysics, 2012, 33, 609-617.	4.6	6
45	Constraining Arctic Climate Projections of Wintertime Warming With Surface Turbulent Flux Observations and Representation of Surface-Atmosphere Coupling. Frontiers in Earth Science, 2022, 10, .	1.8	6
46	Cloud object analysis of CERES Aqua observations of tropical and subtropical cloud regimes: Evolution of cloud object size distributions during the Maddenâ€"Julian Oscillation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 188, 148-158.	2.3	3
47	Satellite Perspectives of Sea Surface Temperature Diurnal Warming on Atmospheric Moistening and Radiative Heating during MJO. Journal of Climate, 2021, 34, 1203-1226.	3.2	3
48	Trutinor: A Conceptual Study for a Next-Generation Earth Radiant Energy Instrument. Remote Sensing, 2020, 12, 3281.	4.0	2
49	On the Use of Probability of Clear Line of Sight Models in Parameterizing Surface Downwelling Longwave Radiation in the Tropical Western Pacific. , 2009, , .		1
50	Does a relationship between Arctic low clouds and sea ice matter?. AIP Conference Proceedings, 2017, , .	0.4	1
51	Local processes with a global reach. Nature Climate Change, 2018, 8, 1035-1036.	18.8	1
52	Evaluation of simulated cloud liquid water in low clouds over the Beaufort Sea in the Arctic System Reanalysis using ARISE airborne in situ observations. Atmospheric Chemistry and Physics, 2021, 21, 11563-11580.	4.9	1
53	Monthly covariability of Amazonian convective cloud properties and radiative diurnal cycle. AIP Conference Proceedings, 2017, , .	0.4	0
54	Evaluation of the sensitivity of the Amazonian diurnal cycle to convective intensity in reanalyses. AIP Conference Proceedings, 2017, , .	0.4	0