

Petteri Uotila

List of Publications by Year in descending order

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74
papers

3,749
citations

147726

31
h-index

138417

58
g-index

100
all docs

100
docs citations

100
times ranked

5194
citing authors

#	ARTICLE	IF	CITATIONS
1	The ACCESS coupled model: description, control climate and evaluation. Australian Meteorological Magazine, 2013, 63, 41-64.	0.4	374
2	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. Ocean Modelling, 2014, 73, 76-107.	1.0	320
3	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. Geoscientific Model Development, 2016, 9, 3231-3296.	1.3	223
4	The EC-Earth3 Earth system model for the Coupled Model Intercomparison Project 6. Geoscientific Model Development, 2022, 15, 2973-3020.	1.3	192
5	Challenges and Prospects in Ocean Circulation Models. Frontiers in Marine Science, 2019, 6, .	1.2	133
6	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability. Ocean Modelling, 2016, 97, 65-90.	1.0	131
7	Changes in synoptic weather patterns in the polar regions in the twentieth and twenty-first centuries, part 1: Arctic. International Journal of Climatology, 2006, 26, 1027-1049.	1.5	114
8	Predicted changes in synoptic forcing of net precipitation in large Arctic river basins during the 21st century. Journal of Geophysical Research, 2007, 112, .	3.3	110
9	An assessment of Antarctic Circumpolar Current and Southern Ocean meridional overturning circulation during 1958â€“2007 in a suite of interannual CORE-II simulations. Ocean Modelling, 2015, 93, 84-120.	1.0	107
10	An assessment of global and regional sea level for years 1993â€“2007 in a suite of interannual CORE-II simulations. Ocean Modelling, 2014, 78, 35-89.	1.0	106
11	On the use of self-organizing maps for studying climate extremes. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3891-3903.	1.2	92
12	Fire in Australian savannas: from leaf to landscape. Global Change Biology, 2015, 21, 62-81.	4.2	88
13	An assessment of ten ocean reanalyses in the polar regions. Climate Dynamics, 2019, 52, 1613-1650.	1.7	88
14	Influence of sea surface temperature variability on global temperature and precipitation extremes. Journal of Geophysical Research, 2009, 114, .	3.3	83
15	The ACCESS coupled model: documentation of core CMIP5 simulations and initial results. Australian Meteorological Magazine, 2013, 63, 83-99.	0.4	75
16	Changes in synoptic weather patterns in the polar regions in the twentieth and twenty-first centuries, part 2: Antarctic. International Journal of Climatology, 2006, 26, 1181-1199.	1.5	73
17	An assessment of Southern Ocean water masses and sea ice during 1988â€“2007 in a suite of interannual CORE-II simulations. Ocean Modelling, 2015, 94, 67-94.	1.0	68
18	Changes in Antarctic net precipitation in the 21st century based on Intergovernmental Panel on Climate Change (IPCC) model scenarios. Journal of Geophysical Research, 2007, 112, .	3.3	59

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19	Surface heat budget over the Weddell Sea: Buoy results and model comparisons. <i>Journal of Geophysical Research</i> , 2002, 107, 5-1.	3.3	51
20	Relationships between Antarctic cyclones and surface conditions as derived from high-resolution numerical weather prediction data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	50
21	Investigating the influence of synoptic-scale meteorology on air quality using self-organizing maps and generalized additive modelling. <i>Atmospheric Environment</i> , 2011, 45, 128-136.	1.9	50
22	A New Daily Pressure Dataset for Australia and Its Application to the Assessment of Changes in Synoptic Patterns during the Last Century. <i>Journal of Climate</i> , 2010, 23, 1111-1126.	1.2	49
23	Brief communication: Impacts of ocean-wave-induced breakup of Antarctic sea ice via thermodynamics in a stand-alone version of the CICE sea-ice model. <i>Cryosphere</i> , 2017, 11, 1035-1040.	1.5	49
24	Atmospheric forcing on the drift of Arctic sea ice in 1989–2009. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	46
25	Weddell Sea ice drift: Kinematics and wind forcing. <i>Journal of Geophysical Research</i> , 1996, 101, 18279-18296.	3.3	43
26	Effects of the tropospheric large-scale circulation on European winter temperatures during the period of amplified Arctic warming. <i>International Journal of Climatology</i> , 2020, 40, 509-529.	1.5	43
27	A sea-ice sensitivity study with a global ocean-ice model. <i>Ocean Modelling</i> , 2012, 51, 1-18.	1.0	40
28	ACCESS-OM: the ocean and sea-ice core of the ACCESS coupled model. <i>Australian Meteorological Magazine</i> , 2013, 63, 213-232.	0.4	39
29	Atmospheric and Oceanic Conditions Associated with Southern Australian Heat Waves: A CMIP5 Analysis. <i>Journal of Climate</i> , 2014, 27, 7807-7829.	1.2	36
30	Trends in cyclones in the high-latitude North Atlantic during 1979–2016. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 762-779.	1.0	33
31	Response of the Weddell Sea pack ice to wind forcing. <i>Journal of Geophysical Research</i> , 2000, 105, 1135-1151.	3.3	32
32	Is realistic Antarctic sea-ice extent in climate models the result of excessive ice drift?. <i>Ocean Modelling</i> , 2014, 79, 33-42.	1.0	32
33	Synoptically forced hydroclimatology of major Arctic watersheds in general circulation models; Part 1: the Mackenzie River Basin. <i>International Journal of Climatology</i> , 2009, 29, 1226-1243.	1.5	31
34	Close interactions between the Antarctic cyclone budget and large-scale atmospheric circulation. <i>Geophysical Research Letters</i> , 2013, 40, 3237-3241.	1.5	31
35	Evaluating synoptic systems in the CMIP5 climate models over the Australian region. <i>Climate Dynamics</i> , 2016, 47, 2235-2251.	1.7	31
36	New vigour involving statisticians to overcome ensemble fatigue. <i>Nature Climate Change</i> , 2017, 7, 697-703.	8.1	31

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37	Influence of savanna fire on Australian monsoon season precipitation and circulation as simulated using a distributed computing environment. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	29
38	A comparison of low pressure system statistics derived from a high-resolution NWP output and three reanalysis products over the Southern Ocean. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	29
39	Evaluation of ACCESS climate model ocean diagnostics in CMIP5 simulations. <i>Australian Meteorological Magazine</i> , 2013, 63, 101-119.	0.4	26
40	Comparing sea ice, hydrography and circulation between NEMO3.6 LIM3 and LIM2. <i>Geoscientific Model Development</i> , 2017, 10, 1009-1031.	1.3	26
41	Towards an advanced observation system for the marine Arctic in the framework of the Pan-Eurasian Experiment (PEEX). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1941-1970.	1.9	24
42	The role of wind forcing from operational analyses for the model representation of Antarctic coastal sea ice. <i>Ocean Modelling</i> , 2015, 94, 95-111.	1.0	23
43	Trend correlations for coastal eutrophication and its main local and whole-sea drivers – Application to the Baltic Sea. <i>Science of the Total Environment</i> , 2021, 779, 146367.	3.9	23
44	Strong Dependence of Wintertime Arctic Moisture and Cloud Distributions on Atmospheric Large-Scale Circulation. <i>Journal of Climate</i> , 2019, 32, 8771-8790.	1.2	22
45	Air-sea interaction over a thermal marine front in the Denmark Strait. <i>Journal of Geophysical Research</i> , 1998, 103, 27665-27678.	3.3	21
46	Atmospheric and oceanic conditions and the extremely low Bothnian Bay sea ice extent in 2014/2015. <i>Geophysical Research Letters</i> , 2015, 42, 7740-7749.	1.5	20
47	Impact of surface wind biases on the Antarctic sea ice concentration budget in climate models. <i>Ocean Modelling</i> , 2016, 105, 60-70.	1.0	19
48	The sea-ice performance of the Australian climate models participating in the CMIP5. <i>Australian Meteorological Magazine</i> , 2013, 63, 121-143.	0.4	19
49	Variability of sea ice area in the Bohai Sea from 1958 to 2015. <i>Science of the Total Environment</i> , 2020, 709, 136164.	3.9	18
50	Turbulent surface fluxes and air-ice coupling in the Baltic Air-Sea-Ice Study (BASIS). <i>Annals of Glaciology</i> , 2001, 33, 237-242.	2.8	17
51	A Factorial Analysis of Storm Surge Flooding in Barrow, Alaska. <i>Monthly Weather Review</i> , 2008, 136, 898-912.	0.5	17
52	Southern Hemisphere strong polar mesoscale cyclones in high-resolution datasets. <i>Climate Dynamics</i> , 2016, 47, 1647-1660.	1.7	16
53	Synoptically forced hydroclimatology of major Arctic watersheds in general circulation models; Part 2: Eurasian watersheds. <i>International Journal of Climatology</i> , 2009, 29, 1244-1261.	1.5	14
54	Seasonal southern hemisphere multi-variable reflection of the southern annular mode in atmosphere and ocean reanalyses. <i>Climate Dynamics</i> , 2018, 50, 1451-1470.	1.7	14

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55	Modelling sea-ice thermodynamics in BALTEX-BASIS. <i>Annals of Glaciology</i> , 2001, 33, 243-247.	2.8	12
56	Observed and modelled sea-ice drift response to wind forcing in the northern Baltic Sea. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2001, 53, 112-128.	0.8	12
57	Role of climate model dynamics in estimated climate responses to anthropogenic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9969-9987.	1.9	12
58	Statistical Learning Methods as a Basis for Skillful Seasonal Temperature Forecasts in Europe. <i>Journal of Climate</i> , 2019, 32, 5363-5379.	1.2	11
59	PAN-EURASIAN EXPERIMENT (PEEX) PROGRAM: AN OVERVIEW OF THE FIRST 5 YEARS IN OPERATION AND FUTURE PROSPECTS. <i>Geography, Environment, Sustainability</i> , 2018, 11, 6-19.	0.6	11
60	Variable Physical Drivers of Near-Surface Turbulence in a Regulated River. <i>Water Resources Research</i> , 2021, 57, e2020WR027939.	1.7	11
61	Atmospheric Circulation Response to Anomalous Siberian Forcing in October 2016 and its Long-Range Predictability. <i>Geophysical Research Letters</i> , 2019, 46, 2800-2810.	1.5	10
62	Synoptic influences on seasonal, interannual and decadal temperature variations in Melbourne, Australia. <i>International Journal of Climatology</i> , 2010, 30, 1372-1381.	1.5	9
63	Assessment of Atmospheric Reanalyses With Independent Observations in the Weddell Sea, the Antarctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12468-12484.	1.2	9
64	Impacts of strong wind events on sea ice and water mass properties in Antarctic coastal polynyas. <i>Climate Dynamics</i> , 2021, 57, 3505.	1.7	9
65	Overview: Recent advances in the understanding of the northern Eurasian environments and of the urban air quality in China – a Pan-Eurasian Experiment (PEEX) programme perspective. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4413-4469.	1.9	9
66	An energy-diagnostics intercomparison of coupled ice-ocean Arctic models. <i>Ocean Modelling</i> , 2006, 11, 1-27.	1.0	7
67	An idealized wave-ice interaction model without subgrid spatial or temporal discretizations. <i>Annals of Glaciology</i> , 2015, 56, 258-262.	2.8	6
68	Subpolar Southern Ocean Response to Changes in the Surface Momentum, Heat, and Freshwater Fluxes under 2xCO ₂ . <i>Journal of Climate</i> , 2021, 34, 8755-8775.	1.2	6
69	Southern Ocean sea ice concentration budgets of five ocean-sea ice reanalyses. <i>Climate Dynamics</i> , 2022, 59, 3265-3285.	1.7	5
70	NEMO-Bohai 1.0: a high-resolution ocean and sea ice modelling system for the Bohai Sea, China. <i>Geoscientific Model Development</i> , 2022, 15, 1269-1288.	1.3	4
71	Kara and Barents sea ice thickness estimation based on CryoSat-2 radar altimeter and Sentinel-1 dual-polarized synthetic aperture radar. <i>Cryosphere</i> , 2022, 16, 1821-1844.	1.5	4
72	An analysis of buoy drift in the northern North Atlantic with detection of drogue loss events. <i>Atmosphere - Ocean</i> , 1997, 35, 471-494.	0.6	3

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73	Sea Ice Modelling. Springer Polar Sciences, 2020, , 315-387.	0.0	3
74	Enhancing MML Clustering Using Context Data with Climate Applications. Lecture Notes in Computer Science, 2009, , 350-359.	1.0	1