

Petteri Uotila

List of Publications by Year in descending order

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74
papers

3,749
citations

147726

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all docs

100
docs citations

100
times ranked

5194
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | The EC-Earth3 Earth system model for the Coupled Model Intercomparison Project 6. <i>Geoscientific Model Development</i> , 2022, 15, 2973-3020. | 1.3 | 192 |
| 3 | 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 |
| 4 | Southern Ocean sea ice concentration budgets of five ocean-sea ice reanalyses. <i>Climate Dynamics</i> , 2022, 59, 3265-3285. | 1.7 | 5 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | Variable Physical Drivers of Near-Surface Turbulence in a Regulated River. <i>Water Resources Research</i> , 2021, 57, e2020WR027939. | 1.7 | 11 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Sea Ice Modelling. <i>Springer Polar Sciences</i> , 2020, , 315-387. | 0.0 | 3 |
| 14 | An assessment of ten ocean reanalyses in the polar regions. <i>Climate Dynamics</i> , 2019, 52, 1613-1650. | 1.7 | 88 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Challenges and Prospects in Ocean Circulation Models. <i>Frontiers in Marine Science</i> , 2019, 6, . | 1.2 | 133 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | On the use of self-organizing maps for studying climate extremes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3891-3903. | 1.2 | 92 |
| 25 | New vigour involving statisticians to overcome ensemble fatigue. <i>Nature Climate Change</i> , 2017, 7, 697-703. | 8.1 | 31 |
| 26 | 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 |
| 27 | Comparing sea ice, hydrography and circulation between NEMO3.6 LIM3 and LIM2. <i>Geoscientific Model Development</i> , 2017, 10, 1009-1031. | 1.3 | 26 |
| 28 | OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2016, 9, 3231-3296. | 1.3 | 223 |
| 29 | 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 |
| 30 | Evaluating synoptic systems in the CMIP5 climate models over the Australian region. <i>Climate Dynamics</i> , 2016, 47, 2235-2251. | 1.7 | 31 |
| 31 | North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability. <i>Ocean Modelling</i> , 2016, 97, 65-90. | 1.0 | 131 |
| 32 | Southern Hemisphere strong polar mesoscale cyclones in high-resolution datasets. <i>Climate Dynamics</i> , 2016, 47, 1647-1660. | 1.7 | 16 |
| 33 | An idealized wave-ice interaction model without subgrid spatial or temporal discretizations. <i>Annals of Glaciology</i> , 2015, 56, 258-262. | 2.8 | 6 |
| 34 | 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 |
| 35 | An assessment of Southern Ocean water masses and sea ice during 1988-2007 in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2015, 94, 67-94. | 1.0 | 68 |
| 36 | Fire in Australian savannas: from leaf to landscape. <i>Global Change Biology</i> , 2015, 21, 62-81. | 4.2 | 88 |

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| 37 | An assessment of Antarctic Circumpolar Current and Southern Ocean meridional overturning circulation during 1958–2007 in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2015, 93, 84-120. | 1.0 | 107 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. <i>Ocean Modelling</i> , 2014, 73, 76-107. | 1.0 | 320 |
| 42 | An assessment of global and regional sea level for years 1993–2007 in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2014, 78, 35-89. | 1.0 | 106 |
| 43 | Close interactions between the Antarctic cyclone budget and large-scale atmospheric circulation. <i>Geophysical Research Letters</i> , 2013, 40, 3237-3241. | 1.5 | 31 |
| 44 | The ACCESS coupled model: description, control climate and evaluation. <i>Australian Meteorological Magazine</i> , 2013, 63, 41-64. | 0.4 | 374 |
| 45 | The ACCESS coupled model: documentation of core CMIP5 simulations and initial results. <i>Australian Meteorological Magazine</i> , 2013, 63, 83-99. | 0.4 | 75 |
| 46 | Evaluation of ACCESS climate model ocean diagnostics in CMIP5 simulations. <i>Australian Meteorological Magazine</i> , 2013, 63, 101-119. | 0.4 | 26 |
| 47 | 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 |
| 48 | 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 |
| 49 | A sea-ice sensitivity study with a global ocean-ice model. <i>Ocean Modelling</i> , 2012, 51, 1-18. | 1.0 | 40 |
| 50 | Atmospheric forcing on the drift of Arctic sea ice in 1989–2009. <i>Geophysical Research Letters</i> , 2012, 39, . | 1.5 | 46 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Influence of sea surface temperature variability on global temperature and precipitation extremes. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 83 |
| 58 | 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 |
| 59 | Enhancing MML Clustering Using Context Data with Climate Applications. <i>Lecture Notes in Computer Science</i> , 2009, , 350-359. | 1.0 | 1 |
| 60 | A Factorial Analysis of Storm Surge Flooding in Barrow, Alaska. <i>Monthly Weather Review</i> , 2008, 136, 898-912. | 0.5 | 17 |
| 61 | Changes in Antarctic net precipitation in the 21st century based on Intergovernmental Panel on Climate Change (IPCC) model scenarios. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 59 |
| 62 | Predicted changes in synoptic forcing of net precipitation in large Arctic river basins during the 21st century. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 110 |
| 63 | 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 |
| 64 | An energy-diagnostics intercomparison of coupled ice-ocean Arctic models. <i>Ocean Modelling</i> , 2006, 11, 1-27. | 1.0 | 7 |
| 65 | Changes in synoptic weather patterns in the polar regions in the twentieth and twenty-first centuries, part 2: Antarctic. <i>International Journal of Climatology</i> , 2006, 26, 1181-1199. | 1.5 | 73 |
| 66 | Changes in synoptic weather patterns in the polar regions in the twentieth and twenty-first centuries, part 1: Arctic. <i>International Journal of Climatology</i> , 2006, 26, 1027-1049. | 1.5 | 114 |
| 67 | 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 |
| 68 | Modelling sea-ice thermodynamics in BALTEX-BASIS. <i>Annals of Glaciology</i> , 2001, 33, 243-247. | 2.8 | 12 |
| 69 | Turbulent surface fluxes and air-sea-ice coupling in the Baltic Air-Sea-Ice Study (BASIS). <i>Annals of Glaciology</i> , 2001, 33, 237-242. | 2.8 | 17 |
| 70 | 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 |
| 71 | Response of the Weddell Sea pack ice to wind forcing. <i>Journal of Geophysical Research</i> , 2000, 105, 1135-1151. | 3.3 | 32 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | An analysis of buoy drift in the northern North Atlantic with detection of drogue loss events. Atmosphere - Ocean, 1997, 35, 471-494. | 0.6 | 3 |
| 74 | Weddell Sea ice drift: Kinematics and wind forcing. Journal of Geophysical Research, 1996, 101, 18279-18296. | 3.3 | 43 |