

Jouni Antero Räsänen

List of Publications by Year in descending order

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117
papers

4,757
citations

136950

32
h-index

102487

66
g-index

131
all docs

131
docs citations

131
times ranked

5555
citing authors

#	ARTICLE	IF	CITATIONS
1	Factors affecting atmospheric vertical motions as analyzed with a generalized omega equation and the OpenIFS model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1271563.	1.7	9
2	The extratropical transition of Hurricane Ophelia (2017) as diagnosed with a generalized omega equation and vorticity equation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 72, 1721215.	1.7	14
3	Radiosonde comparison of ERA5 and ERA-Interim reanalysis datasets over tropical oceans. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 73, 1929752.	1.7	6
4	Probabilistic forecasts of near-term climate change: verification for temperature and precipitation changes from years 1971–2000 to 2011–2020. <i>Climate Dynamics</i> , 2022, 59, 1175-1188.	3.8	3
5	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.	4.9	9
6	Research agenda for the Russian Far East and utilization of multi-platform comprehensive environmental observations. <i>International Journal of Digital Earth</i> , 2021, 14, 311-337.	3.9	11
7	Effect of atmospheric circulation on surface air temperature trends in years 1979–2018. <i>Climate Dynamics</i> , 2021, 56, 2303-2320.	3.8	15
8	Evolution of observed and modelled temperatures in Finland in 1901–2018 and potential dynamical reasons for the differences. <i>International Journal of Climatology</i> , 2021, 41, 3374-3390.	3.5	7
9	How Asian aerosols impact regional surface temperatures across the globe. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5865-5881.	4.9	9
10	Snow conditions in northern Europe: the dynamics of interannual variability versus projected long-term change. <i>Cryosphere</i> , 2021, 15, 1677-1696.	3.9	13
11	Understanding the surface temperature response and its uncertainty to CO ₂ , CH ₄ , black carbon, and sulfate. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14941-14958.	4.9	2
12	Thermal seasons in northern Europe in projected future climate. <i>International Journal of Climatology</i> , 2020, 40, 4444-4462.	3.5	39
13	Vertical Temperature Structure Associated with Evaporation of Stratiform Precipitation in Idealized WRF Simulations. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 1851-1864.	1.7	2
14	The characteristics and structure of extra-tropical cyclones in a warmer climate. <i>Weather and Climate Dynamics</i> , 2020, 1, 1-25.	3.5	36
15	An intercomparison of a large ensemble of statistical downscaling methods over Europe: Results from the VALUE perfect predictor cross-validation experiment. <i>International Journal of Climatology</i> , 2019, 39, 3750-3785.	3.5	164
16	Statistical Learning Methods as a Basis for Skillful Seasonal Temperature Forecasts in Europe. <i>Journal of Climate</i> , 2019, 32, 5363-5379.	3.2	11
17	Effect of atmospheric circulation on recent temperature changes in Finland. <i>Climate Dynamics</i> , 2019, 53, 5675-5687.	3.8	16
18	The summer 2018 heatwave in Finland. <i>Weather</i> , 2019, 74, 403-409.	0.7	31

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19	Direct observation of mono-vacancy and self-interstitial recovery in tungsten. <i>APL Materials</i> , 2019, 7, .	5.1	45
20	Sensitivity of idealised baroclinic waves to mean atmospheric temperature and meridional temperature gradient changes. <i>Climate Dynamics</i> , 2019, 52, 2703-2719.	3.8	8
21	Using impact response surfaces to analyse the likelihood of impacts on crop yield under probabilistic climate change. <i>Agricultural and Forest Meteorology</i> , 2019, 264, 213-224.	4.8	19
22	Energetics of interannual temperature variability. <i>Climate Dynamics</i> , 2019, 52, 3139-3156.	3.8	9
23	A New Mechanism for the Dependence of Tropical Convection on Freeâ€Tropospheric Humidity. <i>Geophysical Research Letters</i> , 2018, 45, 2516-2523.	4.0	8
24	Heat waves in Finland: present and projected summertime extreme temperatures and their associated circulation patterns. <i>International Journal of Climatology</i> , 2018, 38, 1393-1408.	3.5	27
25	Reply to Comment by Genthon et al. on â€œSurface Air Relative Humidities Spuriously Exceeding 100% in CMIP5 Model Output and Their Impact on Future Projectionsâ€. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8728-8734.	3.3	0
26	Intercomparison of Univariate and Joint Bias Correction Methods in Changing Climate From a Hydrological Perspective. <i>Climate</i> , 2018, 6, 33.	2.8	27
27	Growth mode-dependent ferromagnetic properties of palladium nanoclusters. <i>Journal of Applied Physics</i> , 2018, 124, 033904.	2.5	3
28	Cross-validation analysis of bias models in Bayesian multi-model projections of climate. <i>Climate Dynamics</i> , 2017, 48, 1555-1570.	3.8	3
29	An energy balance perspective on regional CO2-induced temperature changes in CMIP5 models. <i>Climate Dynamics</i> , 2017, 48, 3441-3454.	3.8	3
30	Surface air relative humidities spuriously exceeding 100% in CMIP5 model output and their impact on future projections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9557-9568.	3.3	11
31	OZO v.1.0: software for solving a generalised omega equation and the Zwackâ€™Okossi height tendency equation using WRF model output. <i>Geoscientific Model Development</i> , 2017, 10, 827-841.	3.6	8
32	Projections for the duration and degree days of the thermal growing season in Europe derived from <sc>CMIP5</sc> model output. <i>International Journal of Climatology</i> , 2016, 36, 3039-3055.	3.5	70
33	External beam IBA set-up with large-area thin Si3N4 window. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 380, 11-14.	1.4	7
34	Observational evidence for aerosols increasing upper tropospheric humidity. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14331-14342.	4.9	7
35	Twenty-first century changes in snowfall climate in Northern Europe in ENSEMBLES regional climate models. <i>Climate Dynamics</i> , 2016, 46, 339-353.	3.8	31
36	Elastic-Plastic Transition in MBE-Grown GaSb Semiconducting Crystal Examined by Nanoindentation. <i>Acta Physica Polonica A</i> , 2016, 130, 1131-1133.	0.5	3

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37	Multi-annual modes in the 20th century temperature variability in reanalyses and CMIP5 models. Geoscientific Model Development, 2016, 9, 4097-4109.	3.6	1
38	How does model development affect climate projections?. Atmospheric Science Letters, 2015, 16, 414-419.	1.9	3
39	Quantifying sources of climate uncertainty to inform risk analysis for climate change decision-making. Local Environment, 2015, 20, 811-835.	2.4	6
40	CO2-induced climate change in northern Europe: CMIP2 versus CMIP3 versus CMIP5. Climate Dynamics, 2015, 45, 1877-1897.	3.8	15
41	Climate change projections for variables affecting road networks in Europe. Transportation Planning and Technology, 2014, 37, 678-694.	2.0	4
42	Diffusion studies with radioactive ions. Hyperfine Interactions, 2014, 223, 231-238.	0.5	0
43	Twenty-first century changes in daily temperature variability in <scp>CMIP3</scp> climate models. International Journal of Climatology, 2014, 34, 1414-1428.	3.5	18
44	Evaluation of delta change and bias correction methods for future daily precipitation: intermodel cross-validation using ENSEMBLES simulations. Climate Dynamics, 2014, 42, 2287-2303.	3.8	148
45	Silicon-based Coulomb blockade thermometer with Schottky barriers. Applied Physics Letters, 2014, 104, .	3.3	2
46	Projections of daily mean temperature variability in the future: cross-validation tests with ENSEMBLES regional climate simulations. Climate Dynamics, 2013, 41, 1553-1568.	3.8	113
47	Aerosols may increase upper tropospheric humidity. , 2013, , .		0
48	Spatiotemporal distribution of threatened high-latitude snowbed and snow patch habitats in warming climate. Environmental Research Letters, 2012, 7, 034024.	5.2	23
49	Can model weighting improve probabilistic projections of climate change?. Climate Dynamics, 2012, 39, 1981-1998.	3.8	19
50	Enhanced Greenhouse Effect and Climate Change in Northern Europe. Lecture Notes in Earth Sciences, 2012, , 227-239.	0.5	1
51	21st Century changes in snow climate in Northern Europe: a high-resolution view from ENSEMBLES regional climate models. Climate Dynamics, 2012, 38, 2575-2591.	3.8	90
52	Cold months in a warming climate. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	16
53	Study of variations of the carrier recombination and charge transport parameters during proton irradiation of silicon pin diode structures. AIP Advances, 2011, 1, .	1.3	6
54	Projected changes in thermal seasons and the growing season in Finland. International Journal of Climatology, 2011, 31, 1473-1487.	3.5	80

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55	Direct observations of the vacancy and its annealing in germanium. <i>Physical Review B</i> , 2011, 83, .	3.2	26
56	Spin-glass magnetism of surface rich Au cluster film. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	3
57	How Much Should Climate Model Output Be Smoothed in Space?. <i>Journal of Climate</i> , 2011, 24, 867-880.	3.2	30
58	Towards modelling of decay risk of wooden materials. <i>European Journal of Wood and Wood Products</i> , 2010, 68, 303-313.	2.9	95
59	Weighting of model results for improving best estimates of climate change. <i>Climate Dynamics</i> , 2010, 35, 407-422.	3.8	75
60	Applying probabilistic projections of climate change with impact models: a case study for sub-arctic palsa mires in Fennoscandia. <i>Climatic Change</i> , 2010, 99, 515-534.	3.6	59
61	Effect of proton energy on damage generation in irradiated silicon. <i>Journal of Applied Physics</i> , 2010, 107, 084903.	2.5	3
62	Growing season precipitation in Finland under recent and projected climate. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 1563-1574.	3.6	48
63	Comment on "Nanoindentation hardness anisotropy of alumina crystal: A molecular dynamics study" [Appl. Phys. Lett. 92, 161904 (2008)]. <i>Applied Physics Letters</i> , 2009, 94, 146101.	3.3	1
64	Effects of activation by proton irradiation on silicon particle detector electric characteristics. <i>Journal of Applied Physics</i> , 2009, 106, 024908.	2.5	12
65	Breakdown of silicon particle detectors under proton irradiation. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	8
66	Recent Progress in CERN RD39: Radiation Hard Cryogenic Silicon Detectors for Applications in LHC Experiments and Their Future Upgrades. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2119-2123.	2.0	1
67	Warmer climate: less or more snow?. <i>Climate Dynamics</i> , 2008, 30, 307-319.	3.8	234
68	Estimating present climate in a warming world: a model-based approach. <i>Climate Dynamics</i> , 2008, 31, 573-585.	3.8	8
69	How soon will climate records of the 20th century be broken according to climate model simulations?. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, 61, 476-490.	1.7	5
70	Projections of Future Anthropogenic Climate Change. , 2008, , 133-219.		8
71	Recent progress in CERN RD39: radiation hard cryogenic silicon detectors for applications in LHC experiments and their future upgrades. , 2008, , .		0
72	Diffusion of beryllium in Ge and Si-Ge alloys. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	4

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73	Electron-phonon coupling in ion implanted cobalt silicide below 1K. Applied Physics Letters, 2008, 92, .	3.3	1
74	Diffusion properties of Ga in Si _{1-x} Gex alloys. Journal of Applied Physics, 2008, 104, .	2.5	7
75	How reliable are climate models?. Tellus, Series A: Dynamic Meteorology and Oceanography, 2007, 59, 2-29.	1.7	286
76	Probabilistic forecasts of near-term climate change: sensitivity to adjustment of simulated variability and choice of baseline period. Tellus, Series A: Dynamic Meteorology and Oceanography, 2007, 59, 309-320.	1.7	11
77	Probabilistic forecasts of near-term climate change based on a resampling ensemble technique. Tellus, Series A: Dynamic Meteorology and Oceanography, 2006, 58, 461-472.	1.7	41
78	Using statistical downscaling to quantify the GCM-related uncertainty in regional climate change scenarios: A case study of Swedish precipitation. Advances in Atmospheric Sciences, 2006, 23, 54-60.	4.3	46
79	Impact of increasing CO ₂ on monthly-to-annual precipitation extremes: analysis of the CMIP2 experiments. Climate Dynamics, 2005, 24, 309-323.	3.8	25
80	European climate in the late twenty-first century: regional simulations with two driving global models and two forcing scenarios. Climate Dynamics, 2004, 22, 13-31.	3.8	474
81	Estimating snow conditions in Finland in the late 21st century using the SNOWPACK model with regional climate scenario data as input. Annals of Glaciology, 2004, 38, 238-244.	1.4	45
82	A probabilistic view on recent and near future climate change in Sweden. Tellus, Series A: Dynamic Meteorology and Oceanography, 2003, 55, 113-125.	1.7	18
83	Particle Concentration Profile in a Vertical Displacement Flow: A Study in an Industrial Hall. Journal of Occupational and Environmental Hygiene, 2003, 18, 183-192.	0.4	3
84	CO ₂ -Induced Changes in Atmospheric Angular Momentum in CMIP2 Experiments. Journal of Climate, 2003, 16, 132-143.	3.2	21
85	A probabilistic view on recent and near future climate change in Sweden. Tellus, Series A: Dynamic Meteorology and Oceanography, 2003, 55, 113-125.	1.7	12
86	Regional Climate Scenarios for use in Nordic Water Resources Studies. Hydrology Research, 2003, 34, 399-412.	2.7	23
87	CO ₂ -Induced Changes in Interannual Temperature and Precipitation Variability in 19 CMIP2 Experiments. Journal of Climate, 2002, 15, 2395-2411.	3.2	160
88	Quantifying the risk of extreme seasonal precipitation events in a changing climate. Nature, 2002, 415, 512-514.	27.8	500
89	Net precipitation over the Baltic Sea during present and future climate conditions. Climate Research, 2002, 22, 27-39.	1.1	26
90	A synthesis of regional climate change simulations-A Scandinavian perspective. Geophysical Research Letters, 2001, 28, 1003-1006.	4.0	83

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91	Hardening Mechanisms in Graphitic Carbon Nitride Films Grown with N ₂ /Ar Ion Assistance. <i>Chemistry of Materials</i> , 2001, 13, 129-135.	6.7	35
92	Downscaling of greenhouse gas induced climate change in two GCMs with the Rossby Centre regional climate model for northern Europe. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2001, 53, 168-191.	1.7	22
93	Changes in average and extreme precipitation in two regional climate model experiments. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2001, 53, 547-566.	1.7	34
94	CO ₂ -Induced Climate Change in CMIP2 Experiments: Quantification of Agreement and Role of Internal Variability. <i>Journal of Climate</i> , 2001, 14, 2088-2104.	3.2	150
95	A regional climate model for northern Europe: model description and results from the downscaling of two GCM control simulations. <i>Climate Dynamics</i> , 2001, 17, 339-359.	3.8	134
96	Downscaling of greenhouse gas induced climate change in two GCMs with the Rossby Centre regional climate model for northern Europe. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2001, 53, 168-191.	1.7	17
97	Changes in average and extreme precipitation in two regional climate model experiments. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2001, 53, 547-566.	1.7	24
98	A Probability and Decision-Model Analysis of a Multimodel Ensemble of Climate Change Simulations. <i>Journal of Climate</i> , 2001, 14, 3212-3226.	3.2	154
99	Comparison of climate change scenarios for Sweden based on statistical and dynamical downscaling of monthly precipitation. <i>Climate Research</i> , 2001, 19, 45-55.	1.1	108
100	Internal Variability as a Cause of Qualitative Intermodel Disagreement on Anthropogenic Climate Changes. <i>Theoretical and Applied Climatology</i> , 1999, 64, 1-13.	2.8	4
101	Radiation resistance of MBE-grown GaInP/GaAs-based solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 1998, 6, 25-33.	8.1	8
102	CO ₂ - and Aerosol-Induced Changes in Vertically Integrated Zonal Momentum Budget in a GCM Experiment. <i>Journal of Climate</i> , 1998, 11, 625-639.	3.2	6
103	Height Tendency Diagnostics Using a Generalized Omega Equation, the Vorticity Equation, and a Nonlinear Balance Equation. <i>Monthly Weather Review</i> , 1997, 125, 1577-1597.	1.4	15
104	Objective comparison of patterns of CO ₂ induced climate change in coupled GCM experiments. <i>Climate Dynamics</i> , 1997, 13, 197-211.	3.8	27
105	Effect of Ageostrophic Vorticity and Temperature Advection on Lower-Tropospheric Vertical Motions in a Strong Extratropical Cyclone. <i>Monthly Weather Review</i> , 1996, 124, 2607-2613.	1.4	1
106	Factors Affecting Synoptic-Scale Vertical Motions: A Statistical Study Using a Generalized Omega Equation. <i>Monthly Weather Review</i> , 1995, 123, 2447-2460.	1.4	34
107	Stopping powers of 0.4–0.9 MeV/u ²³ Na ions in Al, Au, Mylar, Havar and LR-115 nuclear track material. <i>Radiation Effects and Defects in Solids</i> , 1994, 128, 163-166.	1.2	15
108	EXPERIMENTAL ARRANGEMENTS FOR NON-VACUUM BIO-PIXE. <i>International Journal of PIXE</i> , 1992, 02, 339-350.	0.4	4

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109	Stopping powers of Al and Sn for ${}^4\text{He}$, ${}^7\text{Li}$, ${}^{11}\text{B}$, ${}^{12}\text{C}$, ${}^{14}\text{N}$ and ${}^{16}\text{O}$ ions in the energy range 0.5–2.6 MeV/amu. Radiation Effects and Defects in Solids, 1991, 118, 97-103.	1.2	9
110	Measurements of relative thick target yields for PIGE analysis on light elements in the proton energy interval 2.4–4.2 MeV. Journal of Radioanalytical and Nuclear Chemistry, 1985, 89, 123-141.	1.5	109
111	Ambiguities in PIGE caused by different reactions. AIP Conference Proceedings, 1985, , .	0.4	2
112	Diffusion of aluminum in ion-implanted ${}^{51}\text{Ti}$. Journal of Applied Physics, 1985, 57, 613-614.	2.5	35
113	Diffusion of nitrogen in ion-implanted chromium and tungsten. Applied Physics A: Solids and Surfaces, 1984, 35, 227-232.	1.4	23
114	Diffusion of nitrogen in vanadium and niobium. Applied Physics A: Solids and Surfaces, 1984, 34, 49-56.	1.4	29
115	Annealing behaviour of C-, N-, Mg-, Al- and P-implanted Si and Ge. Applied Physics A: Solids and Surfaces, 1983, 30, 87-93.	1.4	13
116	Diffusion of nitrogen in ${}^{51}\text{Ti}$. Applied Physics Letters, 1983, 42, 498-500.	3.3	75
117	Diffusion of aluminum in ion-implanted alpha iron. Journal of Applied Physics, 1982, 53, 3314-3316.	2.5	34