

Leopold Haimberger

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

12,636
citations

236612

25
h-index

214527

47
g-index

59
all docs

59
docs citations

59
times ranked

11386
citing authors

#	ARTICLE	IF	CITATIONS
1	The ERA5 global reanalysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1999-2049.	1.0	10,272
2	The Lagrangian particle dispersion model FLEXPART version 10.4. Geoscientific Model Development, 2019, 12, 4955-4997.	1.3	238
3	CERA-20C: A Coupled Reanalysis of the Twentieth Century. Journal of Advances in Modeling Earth Systems, 2018, 10, 1172-1195.	1.3	212
4	The ERA5 global reanalysis: Preliminary extension to 1950. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 4186-4227.	1.0	189
5	Heat stored in the Earth system: where does the energy go?. Earth System Science Data, 2020, 12, 2013-2041.	3.7	181
6	Homogenization of Radiosonde Temperature Time Series Using Innovation Statistics. Journal of Climate, 2007, 20, 1377-1403.	1.2	165
7	Toward Elimination of the Warm Bias in Historic Radiosonde Temperature Records—Some New Results from a Comprehensive Intercomparison of Upper-Air Data. Journal of Climate, 2008, 21, 4587-4606.	1.2	141
8	Homogenization of the Global Radiosonde Temperature Dataset through Combined Comparison with Reanalysis Background Series and Neighboring Stations. Journal of Climate, 2012, 25, 8108-8131.	1.2	132
9	A New Approach to Homogenize Daily Radiosonde Humidity Data. Journal of Climate, 2011, 24, 965-991.	1.2	118
10	Climatology of dust distribution over West Asia from homogenized remote sensing data. Aeolian Research, 2016, 21, 93-107.	1.1	62
11	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	1.7	61
12	Poleward Atmospheric Energy Transports and Their Variability as Evaluated from ECMWF Reanalysis Data. Journal of Climate, 2012, 25, 734-752.	1.2	60
13	Sensitivity of WRF-chem predictions to dust source function specification in West Asia. Aeolian Research, 2017, 24, 115-131.	1.1	55
14	An Improved Estimate of the Coupled Arctic Energy Budget. Journal of Climate, 2019, 32, 7915-7934.	1.2	50
15	A quantification of uncertainties in historical tropical tropospheric temperature trends from radiosondes. Journal of Geophysical Research, 2011, 116, .	3.3	48
16	On the Energy Exchange between Tropical Ocean Basins Related to ENSO*. Journal of Climate, 2014, 27, 6393-6403.	1.2	48
17	Assessing PM2.5 concentrations in Tehran, Iran, from space using MAIAC, deep blue, and dark target AOD and machine learning algorithms. Atmospheric Pollution Research, 2019, 10, 889-903.	1.8	46
18	Unprecedented 2015/2016 Indo-Pacific Heat Transfer Speeds Up Tropical Pacific Heat Recharge. Geophysical Research Letters, 2018, 45, 3274-3284.	1.5	43

#	ARTICLE	IF	CITATIONS
19	Toward Consistent Diagnostics of the Coupled Atmosphere and Ocean Energy Budgets. <i>Journal of Climate</i> , 2017, 30, 9225-9246.	1.2	38
20	Global Climate. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, S11-S142.	1.7	36
21	Observations for Reanalyses. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1851-1866.	1.7	35
22	The Response of Tropical Atmospheric Energy Budgets to ENSO*. <i>Journal of Climate</i> , 2013, 26, 4710-4724.	1.2	32
23	Snow cover duration in Switzerland compared to Austria. <i>Meteorologische Zeitschrift</i> , 2004, 13, 13-17.	0.5	30
24	Agreement in late twentieth century Southern Hemisphere stratospheric temperature trends in observations and CCMVal2, CMIP3, and CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 605-613.	1.2	27
25	Interannual changes in mass consistent energy budgets from ERA-Interim and satellite data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
26	The EU-FP7 ERA-CLIM2 Project Contribution to Advancing Science and Production of Earth System Climate Reanalyses. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1003-1014.	1.7	26
27	Continuous rise of the tropopause in the Northern Hemisphere over 1980–2020. <i>Science Advances</i> , 2021, 7, eabi8065.	4.7	26
28	The vertical profile of recent tropical temperature trends: Persistent model biases in the context of internal variability. <i>Environmental Research Letters</i> , 2020, 15, 1040b4.	2.2	25
29	On the homogeneity of radiosonde wind time series. <i>Meteorologische Zeitschrift</i> , 2008, 17, 631-643.	0.5	22
30	Consistency and Homogeneity of Atmospheric Energy, Moisture, and Mass Budgets in ERA5. <i>Journal of Climate</i> , 2021, 34, 3955-3974.	1.2	21
31	Prediction of aerosol optical depth in West Asia using deterministic models and machine learning algorithms. <i>Aeolian Research</i> , 2018, 35, 69-84.	1.1	20
32	ENSO-driven energy budget perturbations in observations and CMIP models. <i>Climate Dynamics</i> , 2016, 47, 4009-4029.	1.7	19
33	The potential value of early (1939–1967) upper-air data in atmospheric climate reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1197-1210.	1.0	19
34	Radiosondes Show That After Decades of Cooling, the Lower Stratosphere Is Now Warming. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,509.	1.2	18
35	A global radiosonde and tracked balloon archive on 16 pressure levels (GRASP) back to 1905 – Part 1: Merging and interpolation to 00:00 and 12:00 GMT. <i>Earth System Science Data</i> , 2014, 6, 185-200.	3.7	16
36	Flex_extract v7.1.2 – a software package to retrieve and prepare ECMWF data for use in FLEXPART. <i>Geoscientific Model Development</i> , 2020, 13, 5277-5310.	1.3	14

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37	Estimating Snow Cover Duration from Ground Temperature. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 959-965.	0.6	11
38	Comparison of Surface Energy Fluxes from Global to Local Scale. <i>Journal of Climate</i> , 2022, 35, 4551-4569.	1.2	9
39	Site-scale modeling of surface ozone in Northern Bavaria using machine learning algorithms, regional dynamic models, and a hybrid model. <i>Environmental Pollution</i> , 2021, 268, 115736.	3.7	8
40	A "Global Radiosonde and tracked-balloon Archive on Sixteen Pressure levels" (GRASP) going back to 1905 â Part 2: homogeneity adjustments for pilot balloon and radiosonde wind data. <i>Earth System Science Data</i> , 2014, 6, 297-316.	3.7	8
41	Diagnostic evaluation of river discharge into the Arctic Ocean and its impact on oceanic volume transports. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 279-304.	1.9	8
42	Long-Term Trends in Marine Boundary Layer Properties over the Atlantic Ocean. <i>Journal of Climate</i> , 2019, 32, 2991-3004.	1.2	5
43	Assessing potential of sparseâinput reanalyses for centennialâscale land surface air temperature homogenisation. <i>International Journal of Climatology</i> , 2021, 41, E3000.	1.5	4
44	New estimates of tropical mean temperature trend profiles from zonal mean historical radiosonde and pilot balloon wind shear observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 3700-3713.	1.2	3
45	Statistically downscaled projections of local scale temperature in the topographically complex terrain of Austria up to the end of the 21st century. <i>Meteorologische Zeitschrift</i> , 2015, 24, 425-440.	0.5	3
46	Intercomparisons, error assessments, and technical information on historical upper-air measurements. <i>Earth System Science Data</i> , 2021, 13, 2471-2485.	3.7	1
47	Special Issue on Development and Application of Seamless Prediction Systems. <i>Meteorologische Zeitschrift</i> , 2020, 29, 179-181.	0.5	1