

Leopold Haimberger

List of Publications by Citations


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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47 papers	4,849 citations	22 h-index	59 g-index
59 ext. papers	8,280 ext. citations	5.3 avg, IF	5.42 L-index

#	Paper	IF	Citations
47	The ERA5 global reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 , 146, 1999-2049	6.4	3404
46	Homogenization of Radiosonde Temperature Time Series Using Innovation Statistics. <i>Journal of Climate</i> , 2007 , 20, 1377-1403	4.4	135
45	CERA-20C: A Coupled Reanalysis of the Twentieth Century. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 1172-1195	7.1	129
44	Toward Elimination of the Warm Bias in Historic Radiosonde Temperature Records: Some New Results from a Comprehensive Intercomparison of Upper-Air Data. <i>Journal of Climate</i> , 2008 , 21, 4587-4606	4.4	121
43	Homogenization of the Global Radiosonde Temperature Dataset through Combined Comparison with Reanalysis Background Series and Neighboring Stations. <i>Journal of Climate</i> , 2012 , 25, 8108-8131	4.4	109
42	The Lagrangian particle dispersion model FLEXPART version 10.4. <i>Geoscientific Model Development</i> , 2019 , 12, 4955-4997	6.3	104
41	A New Approach to Homogenize Daily Radiosonde Humidity Data. <i>Journal of Climate</i> , 2011 , 24, 965-991	4.4	100
40	Heat stored in the Earth system: where does the energy go?. <i>Earth System Science Data</i> , 2020 , 12, 2013-2044	4.4	80
39	Poleward Atmospheric Energy Transports and Their Variability as Evaluated from ECMWF Reanalysis Data. <i>Journal of Climate</i> , 2012 , 25, 734-752	4.4	52
38	Climatology of dust distribution over West Asia from homogenized remote sensing data. <i>Aeolian Research</i> , 2016 , 21, 93-107	3.9	44
37	Sensitivity of WRF-chem predictions to dust source function specification in West Asia. <i>Aeolian Research</i> , 2017 , 24, 115-131	3.9	42
36	On the Energy Exchange between Tropical Ocean Basins Related to ENSO*. <i>Journal of Climate</i> , 2014 , 27, 6393-6403	4.4	38
35	A quantification of uncertainties in historical tropical tropospheric temperature trends from radiosondes. <i>Journal of Geophysical Research</i> , 2011 , 116,		38
34	An Improved Estimate of the Coupled Arctic Energy Budget. <i>Journal of Climate</i> , 2019 , 32, 7915-7934	4.4	28
33	Unprecedented 2015/2016 Indo-Pacific Heat Transfer Speeds Up Tropical Pacific Heat Recharge. <i>Geophysical Research Letters</i> , 2018 , 45, 3274-3284	4.9	28
32	The Response of Tropical Atmospheric Energy Budgets to ENSO*. <i>Journal of Climate</i> , 2013 , 26, 4710-4724	4.4	28
31	Observations for Reanalyses. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1851-1866	6.1	26

30	Snow cover duration in Switzerland compared to Austria. <i>Meteorologische Zeitschrift</i> , 2004 , 13, 13-17	3.1	26
29	Global Climate. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, S9-S128	6.1	26
28	Agreement in late twentieth century Southern Hemisphere stratospheric temperature trends in observations and CCMVal-2, CMIP3, and CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 605-613	4.4	24
27	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	6.1	23
26	Toward Consistent Diagnostics of the Coupled Atmosphere and Ocean Energy Budgets. <i>Journal of Climate</i> , 2017 , 30, 9225-9246	4.4	23
25	Assessing PM2.5 concentrations in Tehran, Iran, from space using MAIAC, deep blue, and dark target AOD and machine learning algorithms. <i>Atmospheric Pollution Research</i> , 2019 , 10, 889-903	4.5	22
24	Interannual changes in mass consistent energy budgets from ERA-Interim and satellite data. <i>Journal of Geophysical Research</i> , 2010 , 115,		21
23	The ERA5 global reanalysis: Preliminary extension to 1950. <i>Quarterly Journal of the Royal Meteorological Society</i> ,	6.4	20
22	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	6.4	18
21	ENSO-driven energy budget perturbations in observations and CMIP models. <i>Climate Dynamics</i> , 2016 , 47, 4009-4029	4.2	18
20	On the homogeneity of radiosonde wind time series. <i>Meteorologische Zeitschrift</i> , 2008 , 17, 631-643	3.1	17
19	Prediction of aerosol optical depth in West Asia using deterministic models and machine learning algorithms. <i>Aeolian Research</i> , 2018 , 35, 69-84	3.9	13
18	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	10.5	12
17	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	6.2	10
16	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	4.4	10
15	Estimating Snow Cover Duration from Ground Temperature. <i>Journal of Applied Meteorology and Climatology</i> , 2015 , 54, 959-965	2.7	9
14	Global Climate. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, S11-S142	6.1	8
13	“Global Radiosonde and tracked-balloon Archive on Sixteen Pressure levels” (GRASP) going back to 1905 [Part 2: homogeneity adjustments for pilot balloon and radiosonde wind data. <i>Earth System Science Data</i> , 2014 , 6, 297-316	10.5	7

12	Continuous rise of the tropopause in the Northern Hemisphere over 1980-2020. <i>Science Advances</i> , 2021 , 7, eabi8065	14.3	6
11	Flex_extract v7.1.2  software package to retrieve and prepare ECMWF data for use in FLEXPART. <i>Geoscientific Model Development</i> , 2020 , 13, 5277-5310	6.3	6
10	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	9.3	5
9	Long-Term Trends in Marine Boundary Layer Properties over the Atlantic Ocean. <i>Journal of Climate</i> , 2019 , 32, 2991-3004	4.4	3
8	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	3.1	3
7	A global historical Radiosondes and Tracked Balloons Archive on standard pressure levels back to the 1920s 2013 ,		3
6	Assessing potential of sparse-input reanalyses for centennial-scale land surface air temperature homogenisation. <i>International Journal of Climatology</i> , 2021 , 41, E3000	3.5	3
5	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	4.4	2
4	Consistency and Homogeneity of Atmospheric Energy, Moisture, and Mass Budgets in ERA5. <i>Journal of Climate</i> , 2021 , 34, 3955-3974	4.4	2
3	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	5.5	1
2	Comparison of Surface Energy Fluxes from Global to Local Scale. <i>Journal of Climate</i> , 2022 , 1-55	4.4	1
1	Intercomparisons, error assessments, and technical information on historical upper-air measurements. <i>Earth System Science Data</i> , 2021 , 13, 2471-2485	10.5	