Leopold Haimberger

List of Publications by Year in Descending Order

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	Diagnostic evaluation of river discharge into the Arctic Ocean and its impact on oceanic volume transports. *Hydrology and Earth System Sciences*, **2022**, 26, 279-304	5.5	1
46	Comparison of Surface Energy Fluxes from Global to Local Scale. *Journal of Climate*, **2022**, 1-55	4.4	1
45	Continuous rise of the tropopause in the Northern Hemisphere over 1980-2020. *Science Advances*, **2021**, 7, eabi8065	14.3	6
44	Consistency and Homogeneity of Atmospheric Energy, Moisture, and Mass Budgets in ERA5. *Journal of Climate*, **2021**, 34, 3955-3974	4.4	2
43	Intercomparisons, error assessments, and technical information on historical upper-air measurements. *Earth System Science Data*, **2021**, 13, 2471-2485	10.5	
42	Assessing potential of sparse-input reanalyses for centennial-scale land surface air temperature homogenisation. *International Journal of Climatology*, **2021**, 41, E3000	3.5	3
41	Site-scale modeling of surface ozone in Northern Bavaria using machine learning algorithms, regional dynamic models, and a hybrid model. *Environmental Pollution*, **2021**, 268, 115736	9.3	5
40	Global Climate. *Bulletin of the American Meteorological Society*, **2021**, 102, S11-S142	6.1	8
39	The ERA5 global reanalysis. *Quarterly Journal of the Royal Meteorological Society*, **2020**, 146, 1999-2049	6.4	3404
38	Global Climate. *Bulletin of the American Meteorological Society*, **2020**, 101, S9-S128	6.1	26
37	Heat stored in the Earth system: where does the energy go?. *Earth System Science Data*, **2020**, 12, 2013-2041	10.5	80
36	Flex_extract v7.1.2 – a software package to retrieve and prepare ECMWF data for use in FLEXPART. *Geoscientific Model Development*, **2020**, 13, 5277-5310	6.3	6
35	The vertical profile of recent tropical temperature trends: Persistent model biases in the context of internal variability. *Environmental Research Letters*, **2020**, 15, 1040b4	6.2	10
34	An Improved Estimate of the Coupled Arctic Energy Budget. *Journal of Climate*, **2019**, 32, 7915-7934	4.4	28
33	Long-Term Trends in Marine Boundary Layer Properties over the Atlantic Ocean. *Journal of Climate*, **2019**, 32, 2991-3004	4.4	3
32	The Lagrangian particle dispersion model FLEXPART version 10.4. *Geoscientific Model Development*, **2019**, 12, 4955-4997	6.3	104
31	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	4.5	22

30	Unprecedented 2015/2016 Indo-Pacific Heat Transfer Speeds Up Tropical Pacific Heat Recharge. *Geophysical Research Letters*, **2018**, 45, 3274-3284	4.9	28
29	Observations for Reanalyses. *Bulletin of the American Meteorological Society*, **2018**, 99, 1851-1866	6.1	26
28	The EU-FP7 ERA-CLIM2 Project Contribution to Advancing Science and Production of Earth System Climate Reanalyses. *Bulletin of the American Meteorological Society*, **2018**, 99, 1003-1014	6.1	23
27	Radiosondes Show That After Decades of Cooling, the Lower Stratosphere Is Now Warming. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,509	4.4	10
26	Prediction of aerosol optical depth in West Asia using deterministic models and machine learning algorithms. *Aeolian Research*, **2018**, 35, 69-84	3.9	13
25	CERA-20C: A Coupled Reanalysis of the Twentieth Century. *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 1172-1195	7.1	129
24	Sensitivity of WRF-chem predictions to dust source function specification in West Asia. *Aeolian Research*, **2017**, 24, 115-131	3.9	42
23	The potential value of early (1939–1967) upper-air data in atmospheric climate reanalysis. *Quarterly Journal of the Royal Meteorological Society*, **2017**, 143, 1197-1210	6.4	18
22	Toward Consistent Diagnostics of the Coupled Atmosphere and Ocean Energy Budgets. *Journal of Climate*, **2017**, 30, 9225-9246	4.4	23
21	ENSO-driven energy budget perturbations in observations and CMIP models. *Climate Dynamics*, **2016**, 47, 4009-4029	4.2	18
20	Climatology of dust distribution over West Asia from homogenized remote sensing data. *Aeolian Research*, **2016**, 21, 93-107	3.9	44
19	Estimating Snow Cover Duration from Ground Temperature. *Journal of Applied Meteorology and Climatology*, **2015**, 54, 959-965	2.7	9
18	New estimates of tropical mean temperature trend profiles from zonal mean historical radiosonde and pilot balloon wind shear observations. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 3700-3713	4.4	2
17	Statistically downscaled projections of local scale temperature in the topographically complex terrain of Austria up to the end of the 21st century. *Meteorologische Zeitschrift*, **2015**, 24, 425-440	3.1	3
16	On the Energy Exchange between Tropical Ocean Basins Related to ENSO*. *Journal of Climate*, **2014**, 27, 6393-6403	4.4	38
15	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. *Earth System Science Data*, **2014**, 6, 185-200	10.5	12
14	A "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. *Earth System Science Data*, **2014**, 6, 297-316	10.5	7
13	The Response of Tropical Atmospheric Energy Budgets to ENSO*. *Journal of Climate*, **2013**, 26, 4710-4724	4.4	28

12	A global historical Radiosondes and Tracked Balloons Archive on standard pressure levels back to the 1920s **2013**,		3
11	Agreement in late twentieth century Southern Hemisphere stratospheric temperature trends in observations and CCMVal-2, CMIP3, and CMIP5 models. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 605-613	4.4	24
10	Poleward Atmospheric Energy Transports and Their Variability as Evaluated from ECMWF Reanalysis Data. *Journal of Climate*, **2012**, 25, 734-752	4.4	52
9	Homogenization of the Global Radiosonde Temperature Dataset through Combined Comparison with Reanalysis Background Series and Neighboring Stations. *Journal of Climate*, **2012**, 25, 8108-8131	4.4	109
8	A quantification of uncertainties in historical tropical tropospheric temperature trends from radiosondes. *Journal of Geophysical Research*, **2011**, 116,		38
7	A New Approach to Homogenize Daily Radiosonde Humidity Data. *Journal of Climate*, **2011**, 24, 965-991	4.4	100
6	Interannual changes in mass consistent energy budgets from ERA-Interim and satellite data. *Journal of Geophysical Research*, **2010**, 115,		21
5	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	4.4	121
4	On the homogeneity of radiosonde wind time series. *Meteorologische Zeitschrift*, **2008**, 17, 631-643	3.1	17
3	Homogenization of Radiosonde Temperature Time Series Using Innovation Statistics. *Journal of Climate*, **2007**, 20, 1377-1403	4.4	135
2	Snow cover duration in Switzerland compared to Austria. *Meteorologische Zeitschrift*, **2004**, 13, 13-17	3.1	26
1	The ERA5 global reanalysis: Preliminary extension to 1950. *Quarterly Journal of the Royal Meteorological Society*,	6.4	20