Felix Landerer

List of Publications by Year in descending order

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Version: 2024-02-01

68 papers	9,079 citations	94269 37 h-index	98622 67 g-index
75 all docs	75 docs citations	75 times ranked	7698 citing authors

#	Article	IF	Citations
1	Emerging trends in global freshwater availability. Nature, 2018, 557, 651-659.	13.7	1,087
2	Accuracy of scaled GRACE terrestrial water storage estimates. Water Resources Research, 2012, 48, .	1.7	972
3	Improved methods for observing Earth's time variable mass distribution with GRACE using spherical cap mascons. Journal of Geophysical Research: Solid Earth, 2015, 120, 2648-2671.	1.4	768
4	Contributions of GRACE to understanding climate change. Nature Climate Change, 2019, 9, 358-369.	8.1	536
5	Quantifying and reducing leakage errors in the JPL RL05M GRACE mascon solution. Water Resources Research, 2016, 52, 7490-7502.	1.7	411
6	Global sea-level budget 1993â€“present. Earth System Science Data, 2018, 10, 1551-1590.	3.7	409
7	Global evaluation of new <scp>GRACE</scp> mascon products for hydrologic applications. Water Resources Research, 2016, 52, 9412-9429.	1.7	344
8	Extending the Global Mass Change Data Record: GRACE Followâ€On Instrument and Science Data Performance. Geophysical Research Letters, 2020, 47, e2020GL088306.	1.5	330
9	The causes of sea-level rise since 1900. Nature, 2020, 584, 393-397.	13.7	292
10	The 2011 La NiÃ±a: So strong, the oceans fell. Geophysical Research Letters, 2012, 39, .	1.5	279
11	Concepts and Terminology for Sea Level: Mean, Variability and Change, Both Local and Global. Surveys in Geophysics, 2019, 40, 1251-1289.	2.1	262
12	Seasonal variation in total water storage in California inferred from GPS observations of vertical land motion. Geophysical Research Letters, 2014, 41, 1971-1980.	1.5	220
13	Antarctic contribution to sea level rise observed by GRACE with improved GIA correction. Journal of Geophysical Research: Solid Earth, 2013, 118, 3126-3141.	1.4	200
14	GRACE Groundwater Drought Index: Evaluation of California Central Valley groundwater drought. Remote Sensing of Environment, 2017, 198, 384-392.	4.6	196
15	Australia's unique influence on global sea level in 2010â€“2011. Geophysical Research Letters, 2013, 40, 4368-4373.	1.5	174
16	Regional Dynamic and Steric Sea Level Change in Response to the IPCC-A1B Scenario. Journal of Physical Oceanography, 2007, 37, 296-312.	0.7	170
17	Continuity of Ice Sheet Mass Loss in Greenland and Antarctica From the GRACE and GRACE Followâ€On Missions. Geophysical Research Letters, 2020, 47, e2020GL087291.	1.5	155
18	Deep-ocean contribution to sea level and energy budget not detectable over the past decade. Nature Climate Change, 2014, 4, 1031-1035.	8.1	137

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19	GPS as an independent measurement to estimate terrestrial water storage variations in Washington and Oregon. Journal of Geophysical Research: Solid Earth, 2015, 120, 552-566.	1.4	136
20	Snowfallâ€driven mass change on the East Antarctic ice sheet. Geophysical Research Letters, 2012, 39, .	1.5	126
21	Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance. Frontiers in Marine Science, 2019, 6, .	1.2	123
22	Replacing GRACE/GRACEâ€FO With Satellite Laser Ranging: Impacts on Antarctic Ice Sheet Mass Change. Geophysical Research Letters, 2020, 47, e2019GL085488.	1.5	122
23	A scaling approach to project regional sea level rise and its uncertainties. Earth System Dynamics, 2013, 4, 11-29.	2.7	120
24	Quantifying underestimates of long-term upper-ocean warming. Nature Climate Change, 2014, 4, 999-1005.	8.1	116
25	Sustained Water Loss in California's Mountain Ranges During Severe Drought From 2012 to 2015 Inferred From GPS. Journal of Geophysical Research: Solid Earth, 2017, 122, 10,559.	1.4	115
26	Return to rapid ice loss in Greenland and record loss in 2019 detected by the GRACE-FO satellites. Communications Earth & Environment, 2020, 1, .	2.6	103
27	Terrestrial water budget of the Eurasian panâ€Arctic from GRACE satellite measurements during 2003â€“2009. Journal of Geophysical Research, 2010, 115, .	3.3	94
28	Understanding of Contemporary Regional Seaâ€Level Change and the Implications for the Future. Reviews of Geophysics, 2020, 58, e2019RG000672.	9.0	74
29	SMART Cables for Observing the Global Ocean: Science and Implementation. Frontiers in Marine Science, 2019, 6, .	1.2	73
30	Evaluation of CMIP3 and CMIP5 Wind Stress Climatology Using Satellite Measurements and Atmospheric Reanalysis Products. Journal of Climate, 2013, 26, 5810-5826.	1.2	71
31	The anatomy of recent large sea level fluctuations in the Mediterranean Sea. Geophysical Research Letters, 2013, 40, 553-557.	1.5	61
32	Evaluation of CMIP5 dynamic sea surface height multi-model simulations against satellite observations. Climate Dynamics, 2014, 43, 1271-1283.	1.7	54
33	Ocean bottom pressure changes lead to a decreasing length-of-day in a warming climate. Geophysical Research Letters, 2007, 34, .	1.5	53
34	North Atlantic meridional overturning circulation variations from GRACE ocean bottom pressure anomalies. Geophysical Research Letters, 2015, 42, 8114-8121.	1.5	48
35	Decadeâ€long deepâ€ocean warming detected in the subtropical South Pacific. Geophysical Research Letters, 2017, 44, 927-936.	1.5	46
36	Are long tide gauge records in the wrong place to measure global mean sea level rise?. Geophysical Research Letters, 2016, 43, 10,403.	1.5	40

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37	Processing Choices Affect Ocean Mass Estimates From GRACE. Journal of Geophysical Research: Oceans, 2019, 124, 1029-1044.	1.0	40
38	Nonseasonal fluctuations of the Arctic Ocean mass observed by the GRACE satellites. Journal of Geophysical Research: Oceans, 2013, 118, 6451-6460.	1.0	37
39	Sea-level fingerprints emergent from GRACE mission data. Earth System Science Data, 2019, 11, 629-646.	3.7	35
40	GRACE Followâ€On Laser Ranging Interferometer Measurements Uniquely Distinguish Shortâ€Wavelength Gravitational Perturbations. Geophysical Research Letters, 2020, 47, e2020GL089445.	1.5	32
41	Internal and external forcing of sea level variability in the Black Sea. Climate Dynamics, 2015, 45, 2633-2646.	1.7	29
42	Ice mass change in Greenland and Antarctica between 1993 and 2013 from satellite gravity measurements. Journal of Geodesy, 2017, 91, 1283-1298.	1.6	29
43	Uncovering the Pattern of Forced Sea Level Rise in the Satellite Altimeter Record. Geophysical Research Letters, 2019, 46, 4844-4853.	1.5	28
44	Teleconnection between the Atlantic Meridional Overturning Circulation and Sea Level in the Mediterranean Sea. Journal of Climate, 2019, 32, 935-955.	1.2	26
45	El NiÃ±oâ€“Southern Oscillation signals in sea level, surface mass redistribution, and degreeâ€two geoid coefficients. Journal of Geophysical Research, 2008, 113, .	3.3	25
46	The genesis of sea level variability in the Barents Sea. Continental Shelf Research, 2013, 66, 92-104.	0.9	24
47	Pacific sea level rise patterns and global surface temperature variability. Geophysical Research Letters, 2016, 43, 8662-8669.	1.5	24
48	A new unified approach to determine geocentre motion using space geodetic and GRACE gravity data. Geophysical Journal International, 2017, 209, 1398-1402.	1.0	24
49	The imprints of contemporary mass redistribution on local sea level and vertical land motion observations. Solid Earth, 2019, 10, 1971-1987.	1.2	24
50	Earth's Energy Imbalance From the Ocean Perspective (2005â€“2019). Geophysical Research Letters, 2021, 48, e2021GL093624.	1.5	21
51	The Dominant Global Modes of Recent Internal Sea Level Variability. Journal of Geophysical Research: Oceans, 2019, 124, 2750-2768.	1.0	19
52	Rise of Great Lakes Surface Water, Sinking of the Upper Midwest of the United States, and Viscous Collapse of the Forebulge of the Former Laurentide Ice Sheet. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019739.	1.4	19
53	â€œTime Variable Earth Gravity Field Models From the First Spaceborne Laser Ranging Interferometer". Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022392.	1.4	15
54	A comparison of watershed storage trends over the eastern and upper Midwestern regions of the United States, 2003â€“2015. Water Resources Research, 2016, 52, 6335-6347.	1.7	14

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55	Ocean mass, sterodynamic effects, and vertical land motion largely explain US coast relative sea level rise. Communications Earth & Environment, 2021, 2, .	2.6	10
56	Longâ€term polar motion excited by ocean thermal expansion. Geophysical Research Letters, 2009, 36, .	1.5	8
57	Observationâ€Driven Estimation of the Spatial Variability of 20th Century Sea Level Rise. Journal of Geophysical Research: Oceans, 2018, 123, 2129-2140.	1.0	8
58	Tide gauge records reveal improved processing of gravity recovery and climate experiment time-variable mass solutions over the coastal ocean. Geophysical Journal International, 2018, 214, 1401-1412.	1.0	8
59	Spatiotemporal Characterization of Geophysical Signal Detection Capabilities of GRACEâ€FO. Geophysical Research Letters, 2022, 49, .	1.5	7
60	Highâ€Tide Floods and Storm Surges During Atmospheric Rivers on the US West Coast. Geophysical Research Letters, 2022, 49, .	1.5	6
61	Gravity Recovery and Climate Experiment (GRACE): Detection of Ice Mass Loss, Terrestrial Mass Changes, and Ocean Mass Gains. , 2013, , 123-152.		4
62	Monitoring Atlantic overturning circulation and transport variability with GRACE-type ocean bottom pressure observations â€“ a sensitivity study. Ocean Science, 2015, 11, 953-963.	1.3	4
63	Constraining 20thâ€Century Seaâ€Level Rise in the South Atlantic Ocean. Journal of Geophysical Research: Oceans, 2021, 126, .	1.0	4
64	Representing and evaluating the landscape freeze/thaw properties and their impacts on soil impermeability: Hydrological processes in the community land model version 4. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7542-7557.	1.2	3
65	Downscaling Satellite-Based Estimates of Ocean Bottom Pressure for Tracking Deep Ocean Mass Transport. Remote Sensing, 2022, 14, 1764.	1.8	3
66	Improved Global Nonlinear Surface Mass Variation Estimates From Geodetic Displacements and Reconciliation With GRACE Data. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018355.	1.4	2
67	Gravity Recovery and Climate Experiment (GRACE): Detection of Ice Mass Loss, Terrestrial Mass Changes, and Ocean Mass Gains. , 2012, , 4563-4584.		2
68	Understanding the Hydrosphere Using Satellite Observations. Eos, 2013, 94, 332-332.	0.1	0