

# Scott Luthcke

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

3,917  
citations

361413

20  
h-index

501196

28  
g-index

30  
all docs

30  
docs citations

30  
times ranked

4425  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189.	12.6	1,246
2	The Ice, Cloud, and land Elevation Satellite-2 (ICESat-2): Science requirements, concept, and implementation. <i>Remote Sensing of Environment</i> , 2017, 190, 260-273.	11.0	600
3	The Global Ecosystem Dynamics Investigation: High-resolution laser ranging of the Earth's forests and topography. <i>Science of Remote Sensing</i> , 2020, 1, 100002.	4.8	429
4	Recent Greenland Ice Mass Loss by Drainage System from Satellite Gravity Observations. <i>Science</i> , 2006, 314, 1286-1289.	12.6	345
5	Resolving mass flux at high spatial and temporal resolution using GRACE intersatellite measurements. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	184
6	A reassessment of global and regional mean sea level trends from TOPEX and Jason-1 altimetry based on revised reference frame and orbits. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	140
7	The 1-Centimeter Orbit: Jason-1 Precision Orbit Determination Using GPS, SLR, DORIS, and Altimeter Data Special Issue: Jason-1 Calibration/Validation. <i>Marine Geodesy</i> , 2003, 26, 399-421.	2.0	134
8	Global mass flux solutions from GRACE: A comparison of parameter estimation strategies for mass concentrations versus Stokes coefficients. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	109
9	Regularization and error characterization of GRACE mascons. <i>Journal of Geodesy</i> , 2019, 93, 1381-1398.	3.6	105
10	Monthly spherical harmonic gravity field solutions determined from GRACE inter-satellite range-rate data alone. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	93
11	Reduction of ICESat systematic geolocation errors and the impact on ice sheet elevation change detection. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	77
12	Analysis of a GRACE global mascon solution for Gulf of Alaska glaciers. <i>Journal of Glaciology</i> , 2013, 59, 913-924.	2.2	75
13	Spaceborne Laser-Altitude-Pointing Bias Calibration from Range Residual Analysis. <i>Journal of Spacecraft and Rockets</i> , 2000, 37, 374-384.	1.9	59
14	The use of laser altimetry in the orbit and attitude determination of Mars Global Surveyor. <i>Geophysical Research Letters</i> , 1999, 26, 1191-1194.	4.0	57
15	Improving global mass flux solutions from Gravity Recovery and Climate Experiment (GRACE) through forward modeling and continuous time correlation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	50
16	Assessing the performance of 20-m footprint waveform lidar data collected in ICESat data corridors in Greenland. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	30
17	ICESat-2 Pointing Calibration and Geolocation Performance. <i>Earth and Space Science</i> , 2021, 8, e2020EA001494.	2.6	30
18	The transmitter pointing determination in the Geoscience Laser Altimeter System. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	26

#	ARTICLE	IF	CITATIONS
19	A simulation study of multi-beam altimetry for lunar reconnaissance orbiter and other planetary missions. <i>Journal of Geodesy</i> , 2009, 83, 709-721.	3.6	25
20	Enhanced Radiative Force Modeling of the Tracking and Data Relay Satellites. <i>Journal of the Astronautical Sciences</i> , 1997, 45, 349-370.	1.5	21
21	Mass evolution of Mediterranean, Black, Red, and Caspian Seas from GRACE and altimetry: accuracy assessment and solution calibration. <i>Journal of Geodesy</i> , 2017, 91, 195-206.	3.6	16
22	Space Shuttle Precision Orbit Determination in Support of SLA-1 Using TDRSS and GPS Tracking Data. <i>Journal of the Astronautical Sciences</i> , 1997, 45, 113-129.	1.5	16
23	Hybrid glacier Inventory, Gravimetry and Altimetry (HIGA) mass balance product for Greenland and the Canadian Arctic. <i>Remote Sensing of Environment</i> , 2015, 168, 24-39.	11.0	15
24	Tests of ocean-tide models by analysis of satellite-to-satellite range measurements: an update. <i>Geophysical Journal International</i> , 2019, 217, 1174-1178.	2.4	13
25	ICESat-2 Precision Orbit Determination. <i>Earth and Space Science</i> , 2021, 8, e2020EA001496.	2.6	10
26	Performance of ICESat-2 Precision Pointing Determination. <i>Earth and Space Science</i> , 2021, 8, e2020EA001478.	2.6	8
27	ICESat-2 Constraint Analysis and Monitoring System (CAMS). <i>Earth and Space Science</i> , 2021, 8, e2020EA001497.	2.6	2