Florian Seitz

List of Publications by Year
in descending order

76 papers	1,382 citations	430874 18 h-index	377865 34 g-index
99 all docs	99 docs citations	99 times ranked	1480 citing authors

#	Article	IF	Citations
1	Mission Earth. , 2022, , .		1
2	DTRF2014: DGFI-TUMâ€™s ITRS realization 2014. Advances in Space Research, 2022, 69, 2391-2420.	2.6	10
3	Interference-sensitive coastal SAR altimetry retracking strategy for measuring significant wave height. Remote Sensing of Environment, 2022, 274, 112968.	11.0	5
4	Comparison of non-tidal loading data for application in a secular terrestrial reference frame. Earth, Planets and Space, 2022, 74, .	2.5	3
5	Design and regional assessment of an empirical tidal model based on FES2014 and coastal altimetry. Advances in Space Research, 2021, 68, 1013-1022.	2.6	9
6	The zone of influence: matching sea level variability from coastal altimetry and tide gauges for vertical land motion estimation. Ocean Science, 2021, 17, 35-57.	3.4	31
7	Correcting for site displacements at different levels of the Gauss-Markov model â€" A case study for geodetic VLBI. Advances in Space Research, 2021, 68, 1645-1645.	2.6	5
8	The influence of Antarctic ice loss on polar motion: an assessment based on GRACE and multi-mission satellite altimetry. Earth, Planets and Space, 2021, 73, .	2.5	4
9	Absolute Baltic Sea Level Trends in the Satellite Altimetry Era: A Revisit. Frontiers in Marine Science, 2021, 8, .	2.5	27
10	Global coastal attenuation of wind-waves observed with radar altimetry. Nature Communications, 2021, 12, 3812.	12.8	20
11	Correction to: The influence of Antarctic ice loss on polar motion: an assessment based on GRACE and multi-mission satellite altimetry. Earth, Planets and Space, 2021, 73, .	2.5	0
12	North SEAL: a new dataset of sea level changes in the North Sea from satellite altimetry. Earth System Science Data, 2021, 13, 3733-3753.	9.9	6
13	Regional Evaluation of Minor Tidal Constituents for Improved Estimation of Ocean Tides. Remote Sensing, 2021, 13, 3310.	4.0	7
14	EOT20: a global ocean tide model from multi-mission satellite altimetry. Earth System Science Data, 2021, 13, 3869-3884.	9.9	40
15	The use of B-splines to represent the topography of river networks. GEM - International Journal on Geomathematics, 2021, 12, 1.	1.6	2
16	Realâ€Time Monitoring of Ionosphere VTEC Using Multiâ€GNSS Carrierâ€Phase Observations and Bâ€Splines. Space Weather, 2021, 19, e2021SW002858.	3.7	6
17	High-Resolution Ionosphere Corrections for Single-Frequency Positioning. Remote Sensing, 2021, 13, 12.	4.0	11
18	Benefits of non-tidal loading applied at distinct levels in VLBI analysis. Journal of Geodesy, 2020, 94, 1.	3.6	7

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19	Long-Term Discharge Estimation for the Lower Mississippi River Using Satellite Altimetry and Remote Sensing Images. Remote Sensing, 2020, 12, 2693.	4.0	7
20	Evaluating Processing Choices for the Geodetic Estimation of Earth Orientation Parameters With Numerical Models of Global Geophysical Fluids. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020025.	3.4	8
21	Global and Regional High-Resolution VTEC Modelling Using a Two-Step B-Spline Approach. Remote Sensing, 2020, 12, 1198.	4.0	15
22	Round Robin Assessment of Radar Altimeter Low Resolution Mode and Delay-Doppler Retracking Algorithms for Significant Wave Height. Remote Sensing, 2020, 12, 1254.	4.0	28
23	Volume Variations of Small Inland Water Bodies from a Combination of Satellite Altimetry and Optical Imagery. Remote Sensing, 2020, 12, 1606.	4.0	26
24	Adaptive Modeling of the Global Ionosphere Vertical Total Electron Content. Remote Sensing, 2020, 12, 1822.	4.0	15
25	High-resolution vertical total electron content maps based on multi-scale B-spline representations. Annales Geophysicae, 2019, 37, 699-717.	1.6	22
26	Dynamic ocean topography of the northern Nordic seas: a comparison between satellite altimetry and ocean modeling. Cryosphere, 2019, 13, 611-626.	3.9	12
27	TICON: TIdal CONstants based on GESLA sea-level records from globally located tide gauges. Geoscience Data Journal, 2019, 6, 97-104.	4.4	20
28	Observing water level extremes in the Mekong River Basin: The benefit of long-repeat orbit missions in a multi-mission satellite altimetry approach. Journal of Hydrology, 2019, 570, 463-472.	5.4	14
29	Reducing filter effects in GRACE-derived polar motion excitations. Earth, Planets and Space, 2019, 71, .	2.5	6
30	Geostrophic currents in the northern Nordic Seas from a combination of multi-mission satellite altimetry and ocean modeling. Earth System Science Data, 2019, 11, 1765-1781.	9.9	2
31	Future global SLR network evolution and its impact on the terrestrial reference frame. Journal of Geodesy, 2018, 92, 625-635.	3.6	12
32	Coastal Improvements for Tide Models: The Impact of ALES Retracker. Remote Sensing, 2018, 10, 700.	4.0	15
33	Mass-related excitation of polar motion: an assessment of the new RL06 GRACE gravity field models. Earth, Planets and Space, 2018, 70, .	2.5	38
34	Lead Detection in Polar Oceans—A Comparison of Different Classification Methods for Cryosat-2 SAR Data. Remote Sensing, 2018, 10, 1190.	4.0	11
35	Present-day surface deformation of the Alpine region inferred from geodetic techniques. Earth System Science Data, 2018, 10, 1503-1526.	9.9	36
36	Combination of multi-mission altimetry data along the Mekong River with spatio-temporal kriging. Journal of Geodesy, 2017, 91, 519-534.	3.6	25

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37	Monitoring the Arctic Seas: How Satellite Altimetry Can Be Used to Detect Open Water in Sea-Ice Regions. Remote Sensing, 2017, 9, 551.	4.0	19
38	Near real-time estimation of ionosphere vertical total electron content from GNSS satellites using B-splines in a Kalman filter. Annales Geophysicae, 2017, 35, 263-277.	1.6	29
39	River Levels Derived with CryoSat-2 SAR Data Classificationâ€"A Case Study in the Mekong River Basin. Remote Sensing, 2017, 9, 1238.	4.0	17
40	Erdrotation. , 2017, , 295-323.		0
41	Water Budget Analysis within the Surrounding of Prominent Lakes and Reservoirs from Multi-Sensor Earth Observation Data and Hydrological Models: Case Studies of the Aral Sea and Lake Mead. Remote Sensing, 2016, 8, 953.	4.0	11
42	Treating the Hooking Effect in Satellite Altimetry Data: A Case Study along the Mekong River and Its Tributaries. Remote Sensing, 2016, 8, 91.	4.0	33
43	Potential of ENVISAT Radar Altimetry for Water Level Monitoring in the Pantanal Wetland. Remote Sensing, 2016, 8, 596.	4.0	22
44	Erdrotation. , 2016, , 1-29.		0
45	Droughts and Floods in the La Plata Basin in Soil Moisture Data and GRACE. Remote Sensing, 2015, 7, 7324-7349.	4.0	63
46	DAHITI â€" an innovative approach for estimating water level time series over inland waters using multi-mission satellite altimetry. Hydrology and Earth System Sciences, 2015, 19, 4345-4364.	4.9	271
47	Remote Sensing of Storage Fluctuations of Poorly Gauged Reservoirs and State Space Model (SSM)-Based Estimation. Remote Sensing, 2015, 7, 17113-17134.	4.0	15
48	Separation of atmospheric, oceanic and hydrological polar motion excitation mechanisms based on a combination of geometric and gravimetric space observations. Journal of Geodesy, 2015, 89, 377-390.	3.6	14
49	Using B-Spline Expansions for Ionosphere Modeling. , 2015, , 939-983.		12
50	Erdrotation. , 2015, , 1-29.		0
51	Geometrical Reference Systems. , 2015, , 2995-3034.		2
52	Geometrical Reference Systems. , 2014, , 1-35.		3
53	Multi-sensor Space Observation of Heavy Flood and Drought Conditions in the Amazon Region. International Association of Geodesy Symposia, 2014, , 311-317.	0.4	5
54	Relating satellite gravimetry data to global soil moisture products via data harmonization and correlation analysis. Remote Sensing of Environment, 2013, 136, 89-98.	11.0	21

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55	Estimation of soil loss by water erosion in the Chinese Loess Plateau using Universal Soil Loss Equation and GRACE. Geophysical Journal International, 2013, 193, 1283-1290.	2.4	20
56	Application of Multi-Sensor Satellite Data to Observe Water Storage Variations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1502-1508.	4.9	9
57	Using B-Spline Expansions for Ionosphere Modeling. , 2013, , 1-40.		4
58	Water storage variations in the Aral Sea from multi-sensor satellite data in comparison with results from GRACE gravimetry. , 2012, , .		2
59	Inter-annual water storage changes in the Aral Sea from multi-mission satellite altimetry, optical remote sensing, and GRACE satellite gravimetry. Remote Sensing of Environment, 2012, 123, 187-195.	11.0	94
60	Separation of mass signals within GRACE monthly gravity field models by means of empirical orthogonal functions. Journal of Geodynamics, 2012, 59-60, 124-132.	1.6	17
61	Determination of the Earth's pole tide Love number k_2 from observations of polar motion using an adaptive Kalman filter approach. Journal of Geophysical Research, 2012, 117, .	3.3	15
62	Earth Rotation. , 2010, , 185-227.		16
63	Earth oblateness changes reveal land ice contribution to interannual sea level variability. Geophysical Research Letters, 2009, 36, .	4.0	5
64	Contribution of Non-Tidal Oceanic Mass Variations to Polar Motion Determined from Space Geodesy and Ocean Data. International Association of Geodesy Symposia, 2009, , 439-445.	0.4	3
65	Simulation of Historic and Future Atmospheric Angular Momentum Effects on Length-of-day Variations with GCMs. International Association of Geodesy Symposia, 2009, , 447-454.	0.4	3
66	Inverse Model Approach for vertical Load Deformations in Consideration of Crustal Inhomogeneities. International Association of Geodesy Symposia, 2009, , 23-29.	0.4	5
67	Signals of extreme weather conditions in Central Europe in GRACE 4-D hydrological mass variations. Earth and Planetary Science Letters, 2008, 268, 165-170.	4.4	44
68	Regional fourâ€dimensional hydrological mass variations from GRACE, atmospheric flux convergence, and river gauge data. Journal of Geophysical Research, 2008, 113, .	3.3	17
69	Effects of inter-annual water storage variations on polar motion. Geophysical Journal International, 2007, 169, 12-18.	2.4	5
70	Sensitivity Analysis of the Non-Linear Liouville Equation. , 2005, , 601-606.		4
71	Atmospheric and oceanic contributions to Chandler wobble excitation determined by wavelet filtering. Journal of Geophysical Research, 2005, 110, .	3.3	31
72	Consistent atmospheric and oceanic excitation of the Earth's free polar motion. Geophysical Journal International, 2004, 157, 25-35.	2.4	15

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73	<title>Biaxial Rayleigh- and Raman-lidar system for application in atmospheric sounding and SLR</title>. , 2002, 4546, 66.		0
74	<title>Algorithm for reliable normal point calculation of noisy LLR measurements</title>. , 2002, 4546, 154.		1
75	Numerical Solutions for the Non-Linear Liouville Equation. International Association of Geodesy Symposia, 2002, , 463-468.	0.4	5
76	Future TRFs and GGOS â€" where to put the next SLR station?. Advances in Geosciences, 0, 50, 17-25.	12.0	8