

Florian Seitz

List of Publications by Year in descending order

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76
papers

1,382
citations

430874

18
h-index

377865

34
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99
docs citations

99
times ranked

1480
citing authors

#	ARTICLE	IF	CITATIONS
1	DAHITI – an innovative approach for estimating water level time series over inland waters using multi-mission satellite altimetry. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 4345-4364.	4.9	271
2	Inter-annual water storage changes in the Aral Sea from multi-mission satellite altimetry, optical remote sensing, and GRACE satellite gravimetry. <i>Remote Sensing of Environment</i> , 2012, 123, 187-195.	11.0	94
3	Droughts and Floods in the La Plata Basin in Soil Moisture Data and GRACE. <i>Remote Sensing</i> , 2015, 7, 7324-7349.	4.0	63
4	Signals of extreme weather conditions in Central Europe in GRACE 4-D hydrological mass variations. <i>Earth and Planetary Science Letters</i> , 2008, 268, 165-170.	4.4	44
5	EOT20: a global ocean tide model from multi-mission satellite altimetry. <i>Earth System Science Data</i> , 2021, 13, 3869-3884.	9.9	40
6	Mass-related excitation of polar motion: an assessment of the new RL06 GRACE gravity field models. <i>Earth, Planets and Space</i> , 2018, 70, .	2.5	38
7	Present-day surface deformation of the Alpine region inferred from geodetic techniques. <i>Earth System Science Data</i> , 2018, 10, 1503-1526.	9.9	36
8	Treating the Hooking Effect in Satellite Altimetry Data: A Case Study along the Mekong River and Its Tributaries. <i>Remote Sensing</i> , 2016, 8, 91.	4.0	33
9	Atmospheric and oceanic contributions to Chandler wobble excitation determined by wavelet filtering. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	31
10	The zone of influence: matching sea level variability from coastal altimetry and tide gauges for vertical land motion estimation. <i>Ocean Science</i> , 2021, 17, 35-57.	3.4	31
11	Near real-time estimation of ionosphere vertical total electron content from GNSS satellites using B-splines in a Kalman filter. <i>Annales Geophysicae</i> , 2017, 35, 263-277.	1.6	29
12	Round Robin Assessment of Radar Altimeter Low Resolution Mode and Delay-Doppler Retracking Algorithms for Significant Wave Height. <i>Remote Sensing</i> , 2020, 12, 1254.	4.0	28
13	Absolute Baltic Sea Level Trends in the Satellite Altimetry Era: A Revisit. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	27
14	Volume Variations of Small Inland Water Bodies from a Combination of Satellite Altimetry and Optical Imagery. <i>Remote Sensing</i> , 2020, 12, 1606.	4.0	26
15	Combination of multi-mission altimetry data along the Mekong River with spatio-temporal kriging. <i>Journal of Geodesy</i> , 2017, 91, 519-534.	3.6	25
16	Potential of ENVISAT Radar Altimetry for Water Level Monitoring in the Pantanal Wetland. <i>Remote Sensing</i> , 2016, 8, 596.	4.0	22
17	High-resolution vertical total electron content maps based on multi-scale B-spline representations. <i>Annales Geophysicae</i> , 2019, 37, 699-717.	1.6	22
18	Relating satellite gravimetry data to global soil moisture products via data harmonization and correlation analysis. <i>Remote Sensing of Environment</i> , 2013, 136, 89-98.	11.0	21

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19	Estimation of soil loss by water erosion in the Chinese Loess Plateau using Universal Soil Loss Equation and GRACE. <i>Geophysical Journal International</i> , 2013, 193, 1283-1290.	2.4	20
20	TICON: Tidal CONstants based on GESLA sea-level records from globally located tide gauges. <i>Geoscience Data Journal</i> , 2019, 6, 97-104.	4.4	20
21	Global coastal attenuation of wind-waves observed with radar altimetry. <i>Nature Communications</i> , 2021, 12, 3812.	12.8	20
22	Monitoring the Arctic Seas: How Satellite Altimetry Can Be Used to Detect Open Water in Sea-Ice Regions. <i>Remote Sensing</i> , 2017, 9, 551.	4.0	19
23	Regional four-dimensional hydrological mass variations from GRACE, atmospheric flux convergence, and river gauge data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
24	Separation of mass signals within GRACE monthly gravity field models by means of empirical orthogonal functions. <i>Journal of Geodynamics</i> , 2012, 59-60, 124-132.	1.6	17
25	River Levels Derived with CryoSat-2 SAR Data Classification – A Case Study in the Mekong River Basin. <i>Remote Sensing</i> , 2017, 9, 1238.	4.0	17
26	Earth Rotation. , 2010, , 185-227.		16
27	Consistent atmospheric and oceanic excitation of the Earth's free polar motion. <i>Geophysical Journal International</i> , 2004, 157, 25-35.	2.4	15
28	Determination of the Earth's pole tide Love number k_2 from observations of polar motion using an adaptive Kalman filter approach. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	15
29	Remote Sensing of Storage Fluctuations of Poorly Gauged Reservoirs and State Space Model (SSM)-Based Estimation. <i>Remote Sensing</i> , 2015, 7, 17113-17134.	4.0	15
30	Coastal Improvements for Tide Models: The Impact of ALES Retracker. <i>Remote Sensing</i> , 2018, 10, 700.	4.0	15
31	Global and Regional High-Resolution VTEC Modelling Using a Two-Step B-Spline Approach. <i>Remote Sensing</i> , 2020, 12, 1198.	4.0	15
32	Adaptive Modeling of the Global Ionosphere Vertical Total Electron Content. <i>Remote Sensing</i> , 2020, 12, 1822.	4.0	15
33	Separation of atmospheric, oceanic and hydrological polar motion excitation mechanisms based on a combination of geometric and gravimetric space observations. <i>Journal of Geodesy</i> , 2015, 89, 377-390.	3.6	14
34	Observing water level extremes in the Mekong River Basin: The benefit of long-repeat orbit missions in a multi-mission satellite altimetry approach. <i>Journal of Hydrology</i> , 2019, 570, 463-472.	5.4	14
35	Future global SLR network evolution and its impact on the terrestrial reference frame. <i>Journal of Geodesy</i> , 2018, 92, 625-635.	3.6	12
36	Dynamic ocean topography of the northern Nordic seas: a comparison between satellite altimetry and ocean modeling. <i>Cryosphere</i> , 2019, 13, 611-626.	3.9	12

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37	Using B-Spline Expansions for Ionosphere Modeling. , 2015, , 939-983.		12
38	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
39	Lead Detection in Polar Oceansâ€”A Comparison of Different Classification Methods for Cryosat-2 SAR Data. Remote Sensing, 2018, 10, 1190.	4.0	11
40	High-Resolution Ionosphere Corrections for Single-Frequency Positioning. Remote Sensing, 2021, 13, 12.	4.0	11
41	DTRF2014: DGFI-TUMâ€™s ITRS realization 2014. Advances in Space Research, 2022, 69, 2391-2420.	2.6	10
42	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
43	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
44	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
45	Future TRFs and GGOS â€” where to put the next SLR station?. Advances in Geosciences, 0, 50, 17-25.	12.0	8
46	Benefits of non-tidal loading applied at distinct levels in VLBI analysis. Journal of Geodesy, 2020, 94, 1.	3.6	7
47	Long-Term Discharge Estimation for the Lower Mississippi River Using Satellite Altimetry and Remote Sensing Images. Remote Sensing, 2020, 12, 2693.	4.0	7
48	Regional Evaluation of Minor Tidal Constituents for Improved Estimation of Ocean Tides. Remote Sensing, 2021, 13, 3310.	4.0	7
49	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
50	Real-time Monitoring of Ionosphere VTEC Using Multi-GNSS Carrier-Phase Observations and B-splines. Space Weather, 2021, 19, e2021SW002858.	3.7	6
51	Reducing filter effects in GRACE-derived polar motion excitations. Earth, Planets and Space, 2019, 71, .	2.5	6
52	Effects of inter-annual water storage variations on polar motion. Geophysical Journal International, 2007, 169, 12-18.	2.4	5
53	Earth oblateness changes reveal land ice contribution to interannual sea level variability. Geophysical Research Letters, 2009, 36, .	4.0	5
54	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

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55	Inverse Model Approach for vertical Load Deformations in Consideration of Crustal Inhomogeneities. International Association of Geodesy Symposia, 2009, , 23-29.	0.4	5
56	Numerical Solutions for the Non-Linear Liouville Equation. International Association of Geodesy Symposia, 2002, , 463-468.	0.4	5
57	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
58	Interference-sensitive coastal SAR altimetry retracking strategy for measuring significant wave height. Remote Sensing of Environment, 2022, 274, 112968.	11.0	5
59	Sensitivity Analysis of the Non-Linear Liouville Equation. , 2005, , 601-606.		4
60	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
61	Using B-Spline Expansions for Ionosphere Modeling. , 2013, , 1-40.		4
62	Geometrical Reference Systems. , 2014, , 1-35.		3
63	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
64	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
65	Comparison of non-tidal loading data for application in a secular terrestrial reference frame. Earth, Planets and Space, 2022, 74, .	2.5	3
66	Water storage variations in the Aral Sea from multi-sensor satellite data in comparison with results from GRACE gravimetry. , 2012, , .		2
67	The use of B-splines to represent the topography of river networks. GEM - International Journal on Geomathematics, 2021, 12, 1.	1.6	2
68	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
69	Geometrical Reference Systems. , 2015, , 2995-3034.		2
70	<title>Algorithm for reliable normal point calculation of noisy LLR measurements</title>. , 2002, 4546, 154.		1
71	Mission Earth. , 2022, , .		1
72	<title>Biaxial Rayleigh- and Raman-lidar system for application in atmospheric sounding and SLR</title>. , 2002, 4546, 66.		0

#	ARTICLE	IF	CITATIONS
73	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
74	Erdrotation. , 2015, , 1-29.		0
75	Erdrotation. , 2016, , 1-29.		0
76	Erdrotation. , 2017, , 295-323.		0