

Robert Dill

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

999
citations

623734

14
h-index

552781

26
g-index

41
all docs

41
docs citations

41
times ranked

916
citing authors

#	ARTICLE	IF	CITATIONS
1	A new high-resolution model of non-tidal atmosphere and ocean mass variability for de-aliasing of satellite gravity observations: AOD1B RL06. <i>Geophysical Journal International</i> , 2017, 211, 263-269.	2.4	174
2	Numerical simulations of global-scale high-resolution hydrological crustal deformations. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5008-5017.	3.4	163
3	Simulating high-frequency atmosphere-ocean mass variability for dealiasing of satellite gravity observations: AOD1B RL05. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3704-3711.	2.6	103
4	Seasonal polar motion excitation from numerical models of atmosphere, ocean, and continental hydrosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	89
5	The updated ESA Earth System Model for future gravity mission simulation studies. <i>Journal of Geodesy</i> , 2015, 89, 505-513.	3.6	70
6	Predicting Earth orientation changes from global forecasts of atmosphere-hydrosphere dynamics. <i>Advances in Space Research</i> , 2018, 61, 1047-1054.	2.6	48
7	Applying local Green's functions to study the influence of the crustal structure on hydrological loading displacements. <i>Journal of Geodynamics</i> , 2015, 88, 14-22.	1.6	45
8	Validation of terrestrial water storage variations as simulated by different global numerical models with GRACE satellite observations. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 821-837.	4.9	43
9	Improved 90-day Earth orientation predictions from angular momentum forecasts of atmosphere, ocean, and terrestrial hydrosphere. <i>Journal of Geodesy</i> , 2019, 93, 287-295.	3.6	40
10	Daily GRACE satellite data evaluate short-term hydro-meteorological fluxes from global atmospheric reanalyses. <i>Scientific Reports</i> , 2020, 10, 4504.	3.3	30
11	Short-term polar motion forecasts from earth system modeling data. <i>Journal of Geodesy</i> , 2010, 84, 529-536.	3.6	23
12	Ground Deformations around the Toktogul Reservoir, Kyrgyzstan, from Envisat ASAR and Sentinel-1 Data – A Case Study about the Impact of Atmospheric Corrections on InSAR Time Series. <i>Remote Sensing</i> , 2018, 10, 462.	4.0	23
13	Correcting surface loading at the observation level: impact on global GNSS and VLBI station networks. <i>Journal of Geodesy</i> , 2019, 93, 2003-2017.	3.6	19
14	Gravitationally Consistent Mean Barystatic Sea Level Rise From Leakage-Corrected Monthly GRACE Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020923.	3.4	17
15	Combination of modeled short-term angular momentum function forecasts from atmosphere, ocean, and hydrology with 90-day EOP predictions. <i>Journal of Geodesy</i> , 2013, 87, 567-577.	3.6	14
16	Relocation of River Storage From Global Hydrological Models to Georeferenced River Channels for Improved Load-Induced Surface Displacements. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7151-7164.	3.4	12
17	Identifying the sensitivity of GPS to non-tidal loadings at various time resolutions: examining vertical displacements from continental Eurasia. <i>GPS Solutions</i> , 2021, 25, 1.	4.3	12
18	Seasonal variations in global mean sea level and consequences on the excitation of length-of-day changes. <i>Geophysical Journal International</i> , 2019, 218, 801-816.	2.4	11

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19	Evaluating Gravimetric Polar Motion Excitation Estimates from the RL06 GRACE Monthly-Mean Gravity Field Models. Remote Sensing, 2020, 12, 930.	4.0	11
20	Modelling spatial covariances for terrestrial water storage variations verified with synthetic GRACE-FO data. GEM - International Journal on Geomathematics, 2020, 11, 1.	1.6	9
21	Self-Validating Deep Learning for Recovering Terrestrial Water Storage From Gravity and Altimetry Measurements. Geophysical Research Letters, 2020, 47, e2020GL089258.	4.0	9
22	Geophysical Excitation of the Chandler Wobble Revisited. International Association of Geodesy Symposia, 2012, , 499-505.	0.4	8
23	Comparison of Daily GRACE Gravity Field and Numerical Water Storage Models for De-aliasing of Satellite Gravimetry Observations. Surveys in Geophysics, 2014, 35, 1251-1266.	4.6	8
24	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
25	Improving Atmospheric Angular Momentum Forecasts by Machine Learning. Earth and Space Science, 2021, 8, .	2.6	6
26	On the effect of non-tidal atmospheric and oceanic loading on the orbits of the altimetry satellites ENVISAT, Jason-1 and Jason-2. Advances in Space Research, 2021, 68, 1048-1058.	2.6	3
27	A method for reconstructing global ocean-induced surface displacements from land-based in-situ stations. Journal of Geodynamics, 2015, 83, 18-27.	1.6	0