

Nico Sneeuw

List of Publications by Year in descending order

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121
papers

2,768
citations

172457

29
h-index

206112

48
g-index

148
all docs

148
docs citations

148
times ranked

2032
citing authors

#	ARTICLE	IF	CITATIONS
1	A spaceborne multisensor approach to monitor the desiccation of Lake Urmia in Iran. <i>Remote Sensing of Environment</i> , 2015, 156, 349-360.	11.0	153
2	Singular spectrum analysis for modeling seasonal signals from GPS time series. <i>Journal of Geodynamics</i> , 2013, 72, 25-35.	1.6	149
3	Global spherical harmonic analysis by least-squares and numerical quadrature methods in historical perspective. <i>Geophysical Journal International</i> , 1994, 118, 707-716.	2.4	131
4	Spatiotemporal densification of river water level time series by multimission satellite altimetry. <i>Water Resources Research</i> , 2016, 52, 1140-1159.	4.2	97
5	A quantile function approach to discharge estimation from satellite altimetry (ENVISAT). <i>Water Resources Research</i> , 2013, 49, 4174-4186.	4.2	89
6	River discharge estimation at daily resolution from satellite altimetry over an entire river basin. <i>Journal of Hydrology</i> , 2017, 546, 230-247.	5.4	83
7	Energy integral method for gravity field determination from satellite orbit coordinates. <i>Journal of Geodesy</i> , 2003, 77, 207-216.	3.6	79
8	Band-limited functions on a bounded spherical domain: the Slepian problem on the sphere. <i>Journal of Geodesy</i> , 1999, 73, 436-447.	3.6	72
9	The European Gravity Field and Steady-State Ocean Circulation Explorer Satellite Mission: Its Impact on Geophysics. <i>Surveys in Geophysics</i> , 2003, 24, 339-386.	4.6	71
10	Large-Scale Runoff from Landmasses: A Global Assessment of the Closure of the Hydrological and Atmospheric Water Balances*. <i>Journal of Hydrometeorology</i> , 2014, 15, 2111-2139.	1.9	66
11	Estimating Runoff Using Hydro-Geodetic Approaches. <i>Surveys in Geophysics</i> , 2014, 35, 1333-1359.	4.6	65
12	What Is the Spatial Resolution of grace Satellite Products for Hydrology?. <i>Remote Sensing</i> , 2018, 10, 852.	4.0	64
13	Comparing seven candidate mission configurations for temporal gravity field retrieval through full-scale numerical simulation. <i>Journal of Geodesy</i> , 2014, 88, 31-43.	3.6	63
14	Filling the Data Gaps Within GRACE Missions Using Singular Spectrum Analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021227.	3.4	62
15	The polar gap. <i>Lecture Notes in Earth Sciences</i> , 1997, , 559-568.	0.5	61
16	Global spherical harmonic computation by two-dimensional Fourier methods. <i>Journal of Geodesy</i> , 1996, 70, 224-232.	3.6	58
17	A CHAMP-only gravity field model from kinematic orbits using the energy integral. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	56
18	Downscaling GRACE total water storage change using partial least squares regression. <i>Scientific Data</i> , 2021, 8, 95.	5.3	55

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19	Annual variations of monsoon and drought detected by GPS: A case study in Yunnan, China. Scientific Reports, 2017, 7, 5874.	3.3	54
20	Analyzing the Lake Urmia restoration progress using ground-based and spaceborne observations. Science of the Total Environment, 2020, 739, 139857.	8.0	51
21	A study on the combination of satellite, airborne, and terrestrial gravity data. Journal of Geodesy, 2003, 77, 217-225.	3.6	50
22	Assessing Greenland ice mass loss by means of point-mass modeling: a viable methodology. Journal of Geodesy, 2011, 85, 607-615.	3.6	50
23	A Data-Driven Approach for Repairing the Hydrological Catchment Signal Damage Due to Filtering of GRACE Products. Water Resources Research, 2017, 53, 9824-9844.	4.2	48
24	Time-variable gravity signal in Greenland revealed by high-low satellite-to-satellite tracking. Journal of Geophysical Research: Solid Earth, 2013, 118, 3848-3859.	3.4	46
25	Minimizing the effects of filtering on catchment scale GRACE solutions. Water Resources Research, 2016, 52, 5868-5890.	4.2	46
26	The Total Drainable Water Storage of the Amazon River Basin: A First Estimate Using GRACE. Water Resources Research, 2018, 54, 3290-3312.	4.2	40
27	Comprehensive evaluation of precipitation datasets over Iran. Journal of Hydrology, 2021, 603, 127054.	5.4	39
28	High tilt susceptibility of the Scintrex CG-5 relative gravimeters. Journal of Geodesy, 2014, 88, 617-622.	3.6	36
29	Identifying and separating climate- and human-driven water storage anomalies using GRACE satellite data. Remote Sensing of Environment, 2021, 263, 112559.	11.0	31
30	Analysis of grace uncertainties by hydrological and hydro-meteorological observations. Journal of Geodynamics, 2012, 59-60, 16-27.	1.6	27
31	Space-borne gravimetric satellite constellations and ocean tides: aliasing effects. Geophysical Journal International, 2010, , .	2.4	25
32	Spatio-Temporal Analysis of Wetland Changes Using a Kernel Extreme Learning Machine Approach. Remote Sensing, 2018, 10, 1129.	4.0	24
33	Basin-scale runoff prediction: An Ensemble Kalman Filter framework based on global hydrometeorological data sets. Water Resources Research, 2015, 51, 8450-8475.	4.2	23
34	Effects of Spatiotemporal Filtering on the Periodic Signals and Noise in the GPS Position Time Series of the Crustal Movement Observation Network of China. Remote Sensing, 2018, 10, 1472.	4.0	23
35	CHAMP gravity field recovery using the energy balance approach. Advances in Geosciences, 0, 1, 73-80.	12.0	23
36	Re-assessing global water storage trends from GRACE time series. Environmental Research Letters, 2021, 16, 034005.	5.2	22

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37	Influences of Environmental Loading Corrections on the Nonlinear Variations and Velocity Uncertainties for the Reprocessed Global Positioning System Height Time Series of the Crustal Movement Observation Network of China. <i>Remote Sensing</i> , 2018, 10, 958.	4.0	21
38	An improved sampling rule for mapping geopotential functions of a planet from a near polar orbit. <i>Journal of Geodesy</i> , 2013, 87, 127-142.	3.6	19
39	Box inverse models, altimetry and the geoid: Problems with the omission error. <i>Journal of Geophysical Research</i> , 2002, 107, 15-1.	3.3	18
40	Methodology and use of tensor invariants for satellite gravity gradiometry. <i>Journal of Geodesy</i> , 2008, 82, 279-293.	3.6	18
41	Continental-Scale Basin Water Storage Variation from Global and Dynamically Downscaled Atmospheric Water Budgets in Comparison with GRACE-Derived Observations. <i>Journal of Hydrometeorology</i> , 2012, 13, 1589-1603.	1.9	18
42	Generalized model for a Moho inversion from gravity and vertical gravity-gradient data. <i>Geophysical Journal International</i> , 2016, 207, 111-128.	2.4	17
43	GRACE gravitational measurements of tsunamis after the 2004, 2010, and 2011 great earthquakes. <i>Journal of Geodesy</i> , 2020, 94, 1.	3.6	17
44	How much water did Iran lose over the last two decades?. <i>Journal of Hydrology: Regional Studies</i> , 2022, 41, 101095.	2.4	17
45	Science Requirements on Future Missions and Simulated Mission Scenarios. <i>Earth, Moon and Planets</i> , 2004, 94, 113-142.	0.6	16
46	A stochastic framework for inequality constrained estimation. <i>Journal of Geodesy</i> , 2012, 86, 1005-1018.	3.6	16
47	Quality assessment of sub-Nyquist recovery from future gravity satellite missions. <i>Advances in Space Research</i> , 2013, 52, 916-929.	2.6	16
48	On Earthquake Detectability by the Next-Generation Gravity Mission. <i>Surveys in Geophysics</i> , 2020, 41, 1049-1074.	4.6	15
49	Evaluation of CryoSat-2 water level derived from different retracking scenarios over selected inland water bodies. <i>Advances in Space Research</i> , 2021, 68, 947-962.	2.6	15
50	Gravity Recovery from Formation Flight Missions. , 2008, , 29-34.		15
51	CHAMP Gravity Field Recovery with the Energy Balance Approach: First Results. , 2003, , 134-139.		14
52	Dynamic River Masks from Multi-Temporal Satellite Imagery: An Automatic Algorithm Using Graph Cuts Optimization. <i>Remote Sensing</i> , 2016, 8, 1005.	4.0	14
53	On the influence of the ground track on the gravity field recovery from high-to-low satellite-to-satellite tracking missions: CHAMP monthly gravity field recovery using the energy balance approach revisited. <i>Journal of Geodesy</i> , 2009, 83, 1131-1143.	3.6	13
54	Mumbai 2005, Bihar 2008 Flood Reflected in Mass Changes Seen by GRACE Satellites. <i>Journal of the Indian Society of Remote Sensing</i> , 2013, 41, 687-695.	2.4	13

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55	Estimating River Depth from SWOT-Type Observables Obtained by Satellite Altimetry and Imagery. <i>Water (Switzerland)</i> , 2017, 9, 753.	2.7	13
56	HydroSat: geometric quantities of the global water cycle from geodetic satellites. <i>Earth System Science Data</i> , 2022, 14, 2463-2486.	9.9	13
57	GOCE orbit analysis: Long-wavelength gravity field determination using the acceleration approach. <i>Advances in Space Research</i> , 2012, 50, 385-396.	2.6	12
58	Mass variation observing system by high low inter-satellite links (MOBILE) – a new concept for sustained observation of mass transport from space. <i>Journal of Geodetic Science</i> , 2019, 9, 48-58.	1.0	12
59	Testing the use of single- and multi-mission satellite altimetry for the calibration of hydraulic models. <i>Advances in Water Resources</i> , 2021, 151, 103887.	3.8	12
60	2D Fourier series representation of gravitational functionals in spherical coordinates. <i>Journal of Geodesy</i> , 2016, 90, 871-881.	3.6	11
61	Comparison of methods for a 3-D density inversion from airborne gravity gradiometry. <i>Studia Geophysica Et Geodaetica</i> , 2018, 62, 1-16.	0.5	11
62	Water Volume Variations Estimation and Analysis Using Multisource Satellite Data: A Case Study of Lake Victoria. <i>Remote Sensing</i> , 2020, 12, 3052.	4.0	11
63	Satellite clusters for future gravity field missions. <i>International Association of Geodesy Symposia</i> , 2005, , 12-17.	0.4	10
64	A novel spatial filter to reduce north-south striping noise in GRACE spherical harmonic coefficients. <i>Journal of Geodesy</i> , 2022, 96, 1.	3.6	10
65	The Earth's gravity field from the STEP mission. <i>Classical and Quantum Gravity</i> , 1996, 13, A113-A117.	4.0	9
66	Validation of fast pre-mission error analysis of the GOCE gradiometry mission by a full gravity field recovery simulation. <i>Journal of Geodynamics</i> , 2002, 33, 43-52.	1.6	9
67	Space-Wise, Time-Wise, Torus and Rosborough Representations in Gravity Field Modelling. <i>Space Science Reviews</i> , 2003, 108, 37-46.	8.1	9
68	Future Mission Design Options for Spatio-Temporal Geopotential Recovery. <i>International Association of Geodesy Symposia</i> , 2010, , 163-170.	0.4	9
69	Spaceborne River Discharge From a Nonparametric Stochastic Quantile Mapping Function. <i>Water Resources Research</i> , 2021, 57, e2021WR030277.	4.2	9
70	Compatibility of first-order circular orbit perturbations theories; consequences for cross-track inclination functions. <i>Journal of Geodesy</i> , 1996, 70, 554-561.	3.6	8
71	Needs and Tools for Future Gravity Measuring Missions. <i>Space Science Reviews</i> , 2003, 108, 409-416.	8.1	8
72	River discharge estimation using channel width from satellite imagery. , 2015, , .		8

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73	The polar form of the spherical harmonic spectrum: implications for filtering grace data. Journal of Geodesy, 2017, 91, 1475-1489.	3.6	7
74	Gravitational Changes of the Earth's Free Oscillation From Earthquakes: Theory and Feasibility Study Using GRACE Inter-satellite Tracking. Journal of Geophysical Research: Solid Earth, 2019, 124, 7483-7503.	3.4	7
75	Mass Distribution and Mass Transport in the Earth System: Recent Scientific Progress Due to Interdisciplinary Research. Surveys in Geophysics, 2014, 35, 1243-1249.	4.6	6
76	On the Spatial Resolution of Homogeneous Isotropic Filters on the Sphere. International Association of Geodesy Symposia, 2015, , 67-73.	0.4	6
77	Satellite Gravity Gradiometry with GOCE. International Association of Geodesy Symposia, 2000, , 66-72.	0.4	6
78	The Status of Spaceborne Gravity Field Mission Concepts: A Comparative Simulation Study. International Association of Geodesy Symposia, 1997, , 171-178.	0.4	6
79	Global spherical harmonic computation by two-dimensional Fourier methods. Journal of Geodesy, 1996, 70, 224-232.	3.6	6
80	The analysis of gradiometric data with Slepian functions. Physics and Chemistry of the Earth, 2000, 25, 667-672.	0.6	5
81	One year of time-variable CHAMP-only gravity field models using kinematic orbits. , 2005, , 288-293.		5
82	Did a change in tectonic regime occur between the Phanerozoic and earlier Epochs?. Rendiconti Lincei, 2012, 23, 139-148.	2.2	5
83	Dependency of Resolvable Gravitational Spatial Resolution on Space-Borne Observation Techniques. International Association of Geodesy Symposia, 2012, , 373-379.	0.4	5
84	Future Gravity Field Satellite Missions. Advanced Technologies in Earth Sciences, 2014, , 165-230.	0.9	5
85	Aliasing of ocean tides in satellite gravimetry: a two-step mechanism. Journal of Geodesy, 2021, 95, 1.	3.6	5
86	Identification of ENSO signature in the boreal hydrological cycle through canonical correlation with sea surface temperature anomalies. International Journal of Climatology, 2020, 40, 6219-6241.	3.5	4
87	Modeling the gravitational field by using CFD techniques. Journal of Geodesy, 2021, 95, 1.	3.6	4
88	Simulation of the Goce Gravity Field Mission. International Association of Geodesy Symposia, 2001, , 14-20.	0.4	4
89	A simulation tool for the new gravity field satellite missions. Advances in Space Research, 2002, 30, 227-232.	2.6	3
90	GOCE gradiometry data processing using the Rosborough approach. Journal of Geodesy, 2015, 89, 1245-1261.	3.6	3

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91	Spaceborne gravimetry and gravity field recovery. Canadian Aeronautics and Space Journal, 2007, 53, 65-75.	0.1	3
92	Dynamical Satellite Geodesy on the Torus: Block-Diagonality from a Semi-Analytical Approach. International Association of Geodesy Symposia, 2001, , 137-142.	0.4	3
93	Numerical Velocity Determination and Calibration Methods for champ Using the Energy Balance Approach. , 2005, , 54-59.		2
94	Analyses of orbital lifetime and observation conditions of small lunar satellites. Acta Astronautica, 2010, 66, 516-527.	3.2	2
95	Outlier identification and correction for GRACE aggregated data. Studia Geophysica Et Geodaetica, 2011, 55, 627-640.	0.5	2
96	Stochastic Modeling of GOCE Gravitational Tensor Invariants. Advanced Technologies in Earth Sciences, 2014, , 115-121.	0.9	2
97	Evolution of the oceanic and continental crust during Neo-Proterozoic and Phanerozoic. Rendiconti Lincei, 2014, 25, 255-263.	2.2	2
98	Singular Spectrum Analysis for Modeling Geodetic Time Series. International Association of Geodesy Symposia, 2016, , 261-268.	0.4	2
99	VIII Hotine-Marussi Symposium on Mathematical Geodesy. International Association of Geodesy Symposia, 2016, , .	0.4	2
100	Gravity field error analysis for pendulum formations by a semi-analytical approach. Journal of Geodesy, 2017, 91, 233-251.	3.6	2
101	GOCE Long-Wavelength Gravity Field Recovery from 1s-Sampled Kinematic Orbits Using the Acceleration Approach. International Association of Geodesy Symposia, 2014, , 21-26.	0.4	2
102	The Torus Approach in Spaceborne Gravimetry. , 2008, , 23-28.		2
103	Performance Analysis of Isotropic Spherical Harmonic Spectral Windows. International Association of Geodesy Symposia, 2012, , 105-110.	0.4	2
104	Analysis of J2-Perturbed Relative Orbits for Satellite Formation Flying. , 2005, , 30-35.		1
105	Calibration and Validation of GOCE Gravity Gradients. , 2005, , 265-270.		1
106	Numerical study on the mixed model in the GOCE polar gap problem. Geo-Spatial Information Science, 2011, 14, 216-222.	5.3	1
107	A new method to derive river discharge from satellite altimetry (ENVISAT). , 2012, , .		1
108	Impact of Groundtrack Pattern of Double Pair Missions on the Gravity Recovery Quality: Lessons from the ESA SC4MGV Project. International Association of Geodesy Symposia, 2016, , 97-101.	0.4	1

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109	Impact of Groundtrack Pattern of a Single Pair Mission on the Gravity Recovery Quality. Geosciences (Switzerland), 2018, 8, 315.	2.2	1
110	Orbit Optimization for Future Satellite Gravity Field Missions: Influence of the Time Variable Gravity Field Models in a Genetic Algorithm Approach. International Association of Geodesy Symposia, 2019, , 3-9.	0.4	1
111	Satellite altimetry over small reservoirs in the Brazilian semiarid region. Revista Brasileira De Recursos Hidricos, 0, 26, .	0.5	1
112	Inclination Functions: Orthogonality and Other Properties. International Association of Geodesy Symposia, 2012, , 267-272.	0.4	1
113	Fundamentals and Applications of the Gravity Field Mission GOCE. International Association of Geodesy Symposia, 1997, , 205-208.	0.4	1
114	Application of wavelet support vector regression on SAR data de-noising. Journal of Systems Engineering and Electronics, 2011, 22, 579-586.	2.2	0
115	A Posteriori De-aliasing of Ocean Tide Error in Future Double-Pair Satellite Gravity Missions. International Association of Geodesy Symposia, 2016, , 103-109.	0.4	0
116	Modeling the Gravitational Field by Using CFD Techniques. International Association of Geodesy Symposia, 2019, , 149-156.	0.4	0
117	Converted Total Least Squares Method and Gauss-Helmert Model with Applications to Coordinate Transformations. International Association of Geodesy Symposia, 2020, , 117-125.	0.4	0
118	Estimating GRACE Monthly Water Storage Change Consistent with Hydrology by Assimilating Hydrological Information. International Association of Geodesy Symposia, 2010, , 603-610.	0.4	0
119	Evaluation of EGM2008 by Comparison with Global and Local Gravity Solutions from CHAMP. International Association of Geodesy Symposia, 2010, , 497-504.	0.4	0
120	Properties and Applications of EOF-Based Filtering of GRACE Solutions. International Association of Geodesy Symposia, 2012, , 273-277.	0.4	0
121	Gravity field recovery from orbit information using the Lagrange formalism. Annals of Geophysics, 2017, 60, .	1.0	0