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 novel spatial filter to reduce northâ€“south striping noise in GRACE spherical harmonic coefficients. Journal of Geodesy, 2022, 96, 1.	3.6	10
2	How much water did Iran lose over the last two decades?. Journal of Hydrology: Regional Studies, 2022, 41, 101095.	2.4	17
3	HydroSat: geometric quantities of the global water cycle from geodetic satellites. Earth System Science Data, 2022, 14, 2463-2486.	9.9	13
4	Evaluation of CryoSat-2 water level derived from different retracking scenarios over selected inland water bodies. Advances in Space Research, 2021, 68, 947-962.	2.6	15
5	Re-assessing global water storage trends from GRACE time series. Environmental Research Letters, 2021, 16, 034005.	5.2	22
6	Downscaling GRACE total water storage change using partial least squares regression. Scientific Data, 2021, 8, 95.	5.3	55
7	Testing the use of single- and multi-mission satellite altimetry for the calibration of hydraulic models. Advances in Water Resources, 2021, 151, 103887.	3.8	12
8	Filling the Data Gaps Within GRACE Missions Using Singular Spectrum Analysis. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021227.	3.4	62
9	Modeling the gravitational field by using CFD techniques. Journal of Geodesy, 2021, 95, 1.	3.6	4
10	Identifying and separating climate- and human-driven water storage anomalies using GRACE satellite data. Remote Sensing of Environment, 2021, 263, 112559.	11.0	31
11	Comprehensive evaluation of precipitation datasets over Iran. Journal of Hydrology, 2021, 603, 127054.	5.4	39
12	Aliasing of ocean tides in satellite gravimetry: a two-step mechanism. Journal of Geodesy, 2021, 95, 1.	3.6	5
13	Spaceborne River Discharge From a Nonparametric Stochastic Quantile Mapping Function. Water Resources Research, 2021, 57, e2021WR030277.	4.2	9
14	Water Volume Variations Estimation and Analysis Using Multisource Satellite Data: A Case Study of Lake Victoria. Remote Sensing, 2020, 12, 3052.	4.0	11
15	GRACE gravitational measurements of tsunamis after the 2004, 2010, and 2011 great earthquakes. Journal of Geodesy, 2020, 94, 1.	3.6	17
16	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
17	On Earthquake Detectability by the Next-Generation Gravity Mission. Surveys in Geophysics, 2020, 41, 1049-1074.	4.6	15
18	Analyzing the Lake Urmia restoration progress using ground-based and spaceborne observations. Science of the Total Environment, 2020, 739, 139857.	8.0	51

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19	Identification of <scp>ENSO</scp> 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
20	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
21	Modeling the Gravitational Field by Using CFD Techniques. International Association of Geodesy Symposia, 2019, , 149-156.	0.4	0
22	Gravitational Changes of the Earth's Free Oscillation From Earthquakes: Theory and Feasibility Study Using GRACE Interâ€satellite Tracking. Journal of Geophysical Research: Solid Earth, 2019, 124, 7483-7503.	3.4	7
23	Mass variation observing system by high low inter-satellite links (MOBILE) â€“ a new concept for sustained observation of mass transport from space. Journal of Geodetic Science, 2019, 9, 48-58.	1.0	12
24	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
25	Comparison of methods for a 3-D density inversion from airborne gravity gradiometry. Studia Geophysica Et Geodaetica, 2018, 62, 1-16.	0.5	11
26	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
27	Impact of Groundtrack Pattern of a Single Pair Mission on the Gravity Recovery Quality. Geosciences (Switzerland), 2018, 8, 315.	2.2	1
28	Spatio-Temporal Analysis of Wetland Changes Using a Kernel Extreme Learning Machine Approach. Remote Sensing, 2018, 10, 1129.	4.0	24
29	What Is the Spatial Resolution of grace Satellite Products for Hydrology?. Remote Sensing, 2018, 10, 852.	4.0	64
30	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. Remote Sensing, 2018, 10, 958.	4.0	21
31	River discharge estimation at daily resolution from satellite altimetry over an entire river basin. Journal of Hydrology, 2017, 546, 230-247.	5.4	83
32	The polar form of the spherical harmonic spectrum: implications for filtering grace data. Journal of Geodesy, 2017, 91, 1475-1489.	3.6	7
33	Annual variations of monsoon and drought detected by GPS: A case study in Yunnan, China. Scientific Reports, 2017, 7, 5874.	3.3	54
34	A Dataâ€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
35	Gravity field error analysis for pendulum formations by a semi-analytical approach. Journal of Geodesy, 2017, 91, 233-251.	3.6	2
36	Estimating River Depth from SWOT-Type Observables Obtained by Satellite Altimetry and Imagery. Water (Switzerland), 2017, 9, 753.	2.7	13

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37	Gravity field recovery from orbit information using the Lagrange formalism. Annals of Geophysics, 2017, 60, .	1.0	0
38	Dynamic River Masks from Multi-Temporal Satellite Imagery: An Automatic Algorithm Using Graph Cuts Optimization. Remote Sensing, 2016, 8, 1005.	4.0	14
39	Generalized model for a Moho inversion from gravity and vertical gravity-gradient data. Geophysical Journal International, 2016, 207, 111-128.	2.4	17
40	Minimizing the effects of filtering on catchment scale GRACE solutions. Water Resources Research, 2016, 52, 5868-5890.	4.2	46
41	2D Fourier series representation of gravitational functionals in spherical coordinates. Journal of Geodesy, 2016, 90, 871-881.	3.6	11
42	Spatiotemporal densification of river water level time series by multimission satellite altimetry. Water Resources Research, 2016, 52, 1140-1159.	4.2	97
43	Singular Spectrum Analysis for Modeling Geodetic Time Series. International Association of Geodesy Symposia, 2016, , 261-268.	0.4	2
44	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
45	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
46	VIII Hotine-Marussi Symposium on Mathematical Geodesy. International Association of Geodesy Symposia, 2016, , .	0.4	2
47	On the Spatial Resolution of Homogeneous Isotropic Filters on the Sphere. International Association of Geodesy Symposia, 2015, , 67-73.	0.4	6
48	Basinâ€scale runoff prediction: An E nsemble K alman F ilter framework based on global hydrometeorological data sets. Water Resources Research, 2015, 51, 8450-8475.	4.2	23
49	River discharge estimation using channel width from satellite imagery. , 2015, , .		8
50	GOCE gradiometry data processing using the Rosborough approach. Journal of Geodesy, 2015, 89, 1245-1261.	3.6	3
51	A spaceborne multisensor approach to monitor the desiccation of Lake Urmia in Iran. Remote Sensing of Environment, 2015, 156, 349-360.	11.0	153
52	Stochastic Modeling of GOCE Gravitational Tensor Invariants. Advanced Technologies in Earth Sciences, 2014, , 115-121.	0.9	2
53	Estimating Runoff Using Hydro-Geodetic Approaches. Surveys in Geophysics, 2014, 35, 1333-1359.	4.6	65
54	Comparing seven candidate mission configurations for temporal gravity field retrieval through full-scale numerical simulation. Journal of Geodesy, 2014, 88, 31-43.	3.6	63

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55	High tilt susceptibility of the Scintrex CG-5 relative gravimeters. Journal of Geodesy, 2014, 88, 617-622.	3.6	36
56	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
57	Large-Scale Runoff from Landmasses: A Global Assessment of the Closure of the Hydrological and Atmospheric Water Balances*. Journal of Hydrometeorology, 2014, 15, 2111-2139.	1.9	66
58	Evolution of the oceanic and continental crust during Neo-Proterozoic and Phanerozoic. Rendiconti Lincei, 2014, 25, 255-263.	2.2	2
59	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
60	Future Gravity Field Satellite Missions. Advanced Technologies in Earth Sciences, 2014, , 165-230.	0.9	5
61	A quantile function approach to discharge estimation from satellite altimetry (ENVISAT). Water Resources Research, 2013, 49, 4174-4186.	4.2	89
62	Mumbai 2005, Bihar 2008 Flood Reflected in Mass Changes Seen by GRACE Satellites. Journal of the Indian Society of Remote Sensing, 2013, 41, 687-695.	2.4	13
63	Quality assessment of sub-Nyquist recovery from future gravity satellite missions. Advances in Space Research, 2013, 52, 916-929.	2.6	16
64	Singular spectrum analysis for modeling seasonal signals from GPS time series. Journal of Geodynamics, 2013, 72, 25-35.	1.6	149
65	An improved sampling rule for mapping geopotential functions of a planet from a near polar orbit. Journal of Geodesy, 2013, 87, 127-142.	3.6	19
66	Timeâ€variable gravity signal in Greenland revealed by highâ€low satelliteâ€toâ€satellite tracking. Journal of Geophysical Research: Solid Earth, 2013, 118, 3848-3859.	3.4	46
67	A new method to derive river discharge from satellite altimetry (ENVISAT). , 2012, , .		1
68	A stochastic framework for inequality constrained estimation. Journal of Geodesy, 2012, 86, 1005-1018.	3.6	16
69	Continental-Scale Basin Water Storage Variation from Global and Dynamically Downscaled Atmospheric Water Budgets in Comparison with GRACE-Derived Observations. Journal of Hydrometeorology, 2012, 13, 1589-1603.	1.9	18
70	GOCE orbit analysis: Long-wavelength gravity field determination using the acceleration approach. Advances in Space Research, 2012, 50, 385-396.	2.6	12
71	Analysis of grace uncertainties by hydrological and hydro-meteorological observations. Journal of Geodynamics, 2012, 59-60, 16-27.	1.6	27
72	Did a change in tectonic regime occur between the Phanerozoic and earlier Epochs?. Rendiconti Lincei, 2012, 23, 139-148.	2.2	5

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73	Dependency of Resolvable Gravitational Spatial Resolution on Space-Borne Observation Techniques. International Association of Geodesy Symposia, 2012, , 373-379.	0.4	5
74	Inclination Functions: Orthogonality and Other Properties. International Association of Geodesy Symposia, 2012, , 267-272.	0.4	1
75	Performance Analysis of Isotropic Spherical Harmonic Spectral Windows. International Association of Geodesy Symposia, 2012, , 105-110.	0.4	2
76	Properties and Applications of EOF-Based Filtering of GRACE Solutions. International Association of Geodesy Symposia, 2012, , 273-277.	0.4	0
77	Application of wavelet support vector regression on SAR data de-noising. Journal of Systems Engineering and Electronics, 2011, 22, 579-586.	2.2	0
78	Outlier identification and correction for GRACE aggregated data. Studia Geophysica Et Geodaetica, 2011, 55, 627-640.	0.5	2
79	Assessing Greenland ice mass loss by means of point-mass modeling: a viable methodology. Journal of Geodesy, 2011, 85, 607-615.	3.6	50
80	Numerical study on the mixed model in the GOCE polar gap problem. Geo-Spatial Information Science, 2011, 14, 216-222.	5.3	1
81	Analyses of orbital lifetime and observation conditions of small lunar satellites. Acta Astronautica, 2010, 66, 516-527.	3.2	2
82	Space-borne gravimetric satellite constellations and ocean tides: aliasing effects. Geophysical Journal International, 2010, , .	2.4	25
83	Future Mission Design Options for Spatio-Temporal Geopotential Recovery. International Association of Geodesy Symposia, 2010, , 163-170.	0.4	9
84	Estimating GRACE Monthly Water Storage Change Consistent with Hydrology by Assimilating Hydrological Information. International Association of Geodesy Symposia, 2010, , 603-610.	0.4	0
85	Evaluation of EGM2008 by Comparison with Global and Local Gravity Solutions from CHAMP. International Association of Geodesy Symposia, 2010, , 497-504.	0.4	0
86	On the influence of the ground track on the gravity field recovery from highâ€“low satellite-to-satellite tracking missions: CHAMP monthly gravity field recovery using the energy balance approach revisited. Journal of Geodesy, 2009, 83, 1131-1143.	3.6	13
87	Methodology and use of tensor invariants for satellite gravity gradiometry. Journal of Geodesy, 2008, 82, 279-293.	3.6	18
88	The Torus Approach in Spaceborne Gravimetry. , 2008, , 23-28.		2
89	Gravity Recovery from Formation Flight Missions. , 2008, , 29-34.		15
90	Spaceborne gravimetry and gravity field recovery. Canadian Aeronautics and Space Journal, 2007, 53, 65-75.	0.1	3

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91	Satellite clusters for future gravity field missions. International Association of Geodesy Symposia, 2005, , 12-17.	0.4	10
92	One year of time-variable CHAMP-only gravity field models using kinematic orbits. , 2005, , 288-293.		5
93	Numerical Velocity Determination and Calibration Methods for champ Using the Energy Balance Approach. , 2005, , 54-59.		2
94	Analysis of J2-Perturbed Relative Orbits for Satellite Formation Flying. , 2005, , 30-35.		1
95	Calibration and Validation of GOCE Gravity Gradients. , 2005, , 265-270.		1
96	Science Requirements on Future Missions and Simulated Mission Scenarios. Earth, Moon and Planets, 2004, 94, 113-142.	0.6	16
97	A CHAMPâ€only gravity field model from kinematic orbits using the energy integral. Geophysical Research Letters, 2003, 30, .	4.0	56
98	Space-Wise, Time-Wise, Torus and Rosborough Representations in Gravity Field Modelling. Space Science Reviews, 2003, 108, 37-46.	8.1	9
99	Needs and Tools for Future Gravity Measuring Missions. Space Science Reviews, 2003, 108, 409-416.	8.1	8
100	The European Gravity Field and Steady-State Ocean Circulation Explorer Satellite Mission: Its Impact on Geophysics. Surveys in Geophysics, 2003, 24, 339-386.	4.6	71
101	A study on the combination of satellite, airborne, and terrestrial gravity data. Journal of Geodesy, 2003, 77, 217-225.	3.6	50
102	Energy integral method for gravity field determination from satellite orbit coordinates. Journal of Geodesy, 2003, 77, 207-216.	3.6	79
103	CHAMP Gravity Field Recovery with the Energy Balance Approach: First Results. , 2003, , 134-139.		14
104	Box inverse models, altimetry and the geoid: Problems with the omission error. Journal of Geophysical Research, 2002, 107, 15-1.	3.3	18
105	Validation of fast pre-mission error analysis of the GOCE gradiometry mission by a full gravity field recovery simulation. Journal of Geodynamics, 2002, 33, 43-52.	1.6	9
106	A simulation tool for the new gravity field satellite missions. Advances in Space Research, 2002, 30, 227-232.	2.6	3
107	Simulation of the Goce Gravity Field Mission. International Association of Geodesy Symposia, 2001, , 14-20.	0.4	4
108	Dynamical Satellite Geodesy on the Torus: Block-Diagonality from a Semi-Analytical Approach. International Association of Geodesy Symposia, 2001, , 137-142.	0.4	3

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109	The analysis of gradiometric data with Slepian functions. Physics and Chemistry of the Earth, 2000, 25, 667-672.	0.6	5
110	Satellite Gravity Gradiometry with GOCE. International Association of Geodesy Symposia, 2000, , 66-72.	0.4	6
111	Band-limited functions on a bounded spherical domain: the Slepian problem on the sphere. Journal of Geodesy, 1999, 73, 436-447.	3.6	72
112	The polar gap. Lecture Notes in Earth Sciences, 1997, , 559-568.	0.5	61
113	Fundamentals and Applications of the Gravity Field Mission GOCE. International Association of Geodesy Symposia, 1997, , 205-208.	0.4	1
114	The Status of Spaceborne Gravity Field Mission Concepts: A Comparative Simulation Study. International Association of Geodesy Symposia, 1997, , 171-178.	0.4	6
115	Compatibility of first-order circular orbit perturbations theories; consequences for cross-track inclination functions. Journal of Geodesy, 1996, 70, 554-561.	3.6	8
116	Global spherical harmonic computation by two-dimensional Fourier methods. Journal of Geodesy, 1996, 70, 224-232.	3.6	58
117	The Earth's gravity field from the STEP mission. Classical and Quantum Gravity, 1996, 13, A113-A117.	4.0	9
118	Global spherical harmonic computation by two-dimensional Fourier methods. Journal of Geodesy, 1996, 70, 224-232.	3.6	6
119	Global spherical harmonic analysis by least-squares and numerical quadrature methods in historical perspective. Geophysical Journal International, 1994, 118, 707-716.	2.4	131
120	Satellite altimetry over small reservoirs in the Brazilian semiarid region. Revista Brasileira De Recursos Hidricos, 0, 26, .	0.5	1
121	CHAMP gravity field recovery using the energy balance approach. Advances in Geosciences, 0, 1, 73-80.	12.0	23