

Robert Steven Nerem

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

5,248
citations

145106

33
h-index

175968

55
g-index

63
all docs

63
docs citations

63
times ranked

5180
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent GNSS-Reflections Characterization Over Ocean and Sea Ice Based on Spire Global CubeSat Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-18.	2.7	12
2	Extrapolating Empirical Models of Satellite-Observed Global Mean Sea Level to Estimate Future Sea Level Change. <i>Earth's Future</i> , 2022, 10, .	2.4	8
3	Using a Multiobjective Genetic Algorithm to Design Satellite Constellations for Recovering Earth System Mass Change. <i>Remote Sensing</i> , 2022, 14, 3340.	1.8	6
4	Past, Present, and Future Pacific Sea-Level Change. <i>Earth's Future</i> , 2021, 9, e2020EF001839.	2.4	11
5	The Seasonality of Global Land and Ocean Mass and the Changing Water Cycle. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091248.	1.5	11
6	An Assessment of Regional ICESat-2 Sea-Level Trends. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092327.	1.5	7
7	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , 2021, 68, 319-363.	1.2	119
8	GPS Imaging of Global Vertical Land Motion for Studies of Sea Level Rise. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022355.	1.4	32
9	Ocean mass, steric effects, and vertical land motion largely explain US coast relative sea level rise. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	10
10	Forced Patterns of Sea Level Rise in the Community Earth System Model Large Ensemble From 1920 to 2100. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC016030.	1.0	8
11	Origin of interannual variability in global mean sea level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13983-13990.	3.3	20
12	Development of a Daily GRACE Mascon Solution for Terrestrial Water Storage. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018468.	1.4	12
13	Investigating the Acceleration of Regional Sea Level Rise During the Satellite Altimeter Era. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086528.	1.5	30
14	Understanding of Contemporary Regional Sea-Level Change and the Implications for the Future. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000672.	9.0	74
15	Sea Level Rise in the CESM Large Ensemble: The Role of Individual Climate Forcings and Consequences for the Coming Decades. <i>Journal of Climate</i> , 2020, 33, 6911-6927.	1.2	5
16	Uncovering the Pattern of Forced Sea Level Rise in the Satellite Altimeter Record. <i>Geophysical Research Letters</i> , 2019, 46, 4844-4853.	1.5	28
17	Observations of the Rate and Acceleration of Global Mean Sea Level Change. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, S15-S18.	1.7	7
18	Climate-change-driven accelerated sea-level rise detected in the altimeter era. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2022-2025.	3.3	700

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19	Altimeter-era emergence of the patterns of forced sea-level rise in climate models and implications for the future. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12944-12949.	3.3	61
20	Ice mass change in Greenland and Antarctica between 1993 and 2013 from satellite gravity measurements. Journal of Geodesy, 2017, 91, 1283-1298.	1.6	29
21	The Impact of Atmospheric Modeling Errors on GRACE Estimates of Mass Loss in Greenland and Antarctica. Journal of Geophysical Research: Solid Earth, 2017, 122, 10,440.	1.4	11
22	Is the detection of accelerated sea level rise imminent?. Scientific Reports, 2016, 6, 31245.	1.6	50
23	An ongoing shift in Pacific Ocean sea level. Journal of Geophysical Research: Oceans, 2016, 121, 5084-5097.	1.0	54
24	The pole tide and its effect on GRACE time-variable gravity measurements: Implications for estimates of surface mass variations. Journal of Geophysical Research: Solid Earth, 2015, 120, 4597-4615.	1.4	75
25	Uncovering an anthropogenic sea-level rise signal in the Pacific Ocean. Nature Climate Change, 2014, 4, 782-785.	8.1	108
26	Australia's unique influence on global sea level in 2010-2011. Geophysical Research Letters, 2013, 40, 4368-4373.	1.5	174
27	Contribution of the Pacific Decadal Oscillation to global mean sea level trends. Geophysical Research Letters, 2013, 40, 5171-5175.	1.5	83
28	The 2011 La Niña: So strong, the oceans fell. Geophysical Research Letters, 2012, 39, .	1.5	279
29	The influence of ENSO on global terrestrial water storage using GRACE. Geophysical Research Letters, 2012, 39, .	1.5	95
30	Is there a 60-year oscillation in global mean sea level?. Geophysical Research Letters, 2012, 39, .	1.5	163
31	Design considerations for a dedicated gravity recovery satellite mission consisting of two pairs of satellites. Journal of Geodesy, 2012, 86, 81-98.	1.6	60
32	Recent changes in the Earth's oblateness driven by Greenland and Antarctic ice mass loss. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	42
33	Reconstructing sea level using cyclostationary empirical orthogonal functions. Journal of Geophysical Research, 2011, 116, .	3.3	107
34	Estimating Mean Sea Level Change from the TOPEX and Jason Altimeter Missions. Marine Geodesy, 2010, 33, 435-446.	0.9	414
35	Alternative mission architectures for a gravity recovery satellite mission. Journal of Geodesy, 2009, 83, 569-581.	1.6	68
36	Orbit Determination and Sea Level Rise: How Astrodynamics Informs Us About the Climate. Journal of the Astronautical Sciences, 2009, 57, 767-776.	0.8	1

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37	Chambers Receives 2008 Geodesy Section Award. <i>Eos</i> , 2009, 90, 148-149.	0.1	0
38	Rotating solar coronal holes and periodic modulation of the upper atmosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	128
39	Assessing the globally averaged sea level budget on seasonal to interannual timescales. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	185
40	Interannual and latitudinal variability of the thermosphere density annual harmonics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
41	Thermospheric density oscillations due to periodic solar wind high-speed streams. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	111
42	Global thermospheric density variations caused by high-speed solar wind streams during the declining phase of solar cycle 23. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	81
43	Effects of solar variability on thermosphere density from CHAMP accelerometer data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	64
44	Present-day sea-level change: A review. <i>Comptes Rendus - Geoscience</i> , 2006, 338, 1077-1083.	0.4	102
45	Neutral density response to the solar flares of October and November, 2003. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	87
46	Thermosphere density response to the 20 th 21 November 2003 solar and geomagnetic storm from CHAMP and GRACE accelerometer data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	167
47	Global thermospheric neutral density and wind response to the severe 2003 geomagnetic storms from CHAMP accelerometer data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	184
48	Present-day sea level change: Observations and causes. <i>Reviews of Geophysics</i> , 2004, 42, .	9.0	431
49	Preliminary observations of global ocean mass variations with GRACE. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	235
50	Possible Future Use of Laser Gravity Gradiometers. <i>Space Science Reviews</i> , 2003, 108, 385-392.	3.7	7
51	Low-frequency variations in global mean sea level: 1950 th 2000. <i>Journal of Geophysical Research</i> , 2002, 107, 1-1.	3.3	90
52	Estimates of vertical crustal motion derived from differences of TOPEX/POSEIDON and tide gauge sea level measurements. <i>Geophysical Research Letters</i> , 2002, 29, 40-1-40-4.	1.5	101
53	Investigation of glacial isostatic adjustment in the northeast U.S. using GPS measurements. <i>Geophysical Research Letters</i> , 2002, 29, 4-1.	1.5	29
54	Global positioning system, theory and practice, 5th edition. <i>Eos</i> , 2001, 82, 365-365.	0.1	19

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55	Variations in global mean sea level associated with the 1997-1998 ENSO event: Implications for measuring long term sea level change. <i>Geophysical Research Letters</i> , 1999, 26, 3005-3008.	1.5	110
56	Seasonal global water mass budget and mean sea level variations. <i>Geophysical Research Letters</i> , 1998, 25, 3555-3558.	1.5	86
57	Neutral Composition and Density Effects in the October-November 2003 Magnetic Storms. <i>Geophysical Monograph Series</i> , 0, , 259-269.	0.1	1