

Richard D Ray

List of Publications by Year in descending order

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96
papers

6,483
citations

81900

39
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66911

78
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104
all docs

104
docs citations

104
times ranked

4202
citing authors

#	ARTICLE	IF	CITATIONS
1	Along-Orbit Analysis of GRACE Follow-On Inter-Satellite Laser Ranging Measurements for Sub-Monthly Surface Mass Variations. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, e2021JB022983.	3.4	9
2	On the Development of SWOT In Situ Calibration/Validation for Short-Wavelength Ocean Topography. <i>Journal of Atmospheric and Oceanic Technology</i> , 2022, 39, 595-617.	1.3	7
3	Seasonal and Interannual Variability of Tidal Mixing Signatures in Indonesian Seas from High-Resolution Sea Surface Temperature. <i>Remote Sensing</i> , 2022, 14, 1934.	4.0	7
4	Accuracy assessment of global internal-tide models using satellite altimetry. <i>Ocean Science</i> , 2021, 17, 147-180.	3.4	28
5	Preface: Developments in the science and history of tides. <i>Ocean Science</i> , 2021, 17, 809-818.	3.4	3
6	The mean seasonal cycle in relative sea level from satellite altimetry and gravimetry. <i>Journal of Geodesy</i> , 2021, 95, 80.	3.6	9
7	The problematic M_2 ocean tide. <i>Geophysical Journal International</i> , 2021, 227, 1181-1192.	2.4	3
8	New determinations of tides on the north-western Ross Ice Shelf. <i>Antarctic Science</i> , 2021, 33, 89-102.	0.9	5
9	Tidal Geopotential Dependence on Earth Ellipticity and Seawater Density and Its Detection With the GRACE Follow-On Laser Ranging Interferometer. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016774.	2.6	3
10	First global observations of third-degree ocean tides. <i>Science Advances</i> , 2020, 6, .	10.3	13
11	GRACE Follow-On Laser Ranging Interferometer Measurements Uniquely Distinguish Short-Wavelength Gravitational Perturbations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089445.	4.0	32
12	Daily harmonics of ionospheric total electron content from satellite altimetry. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 209, 105423.	1.6	9
13	Tidally Driven Interannual Variation in Extreme Sea Level Frequencies in the Gulf of Maine. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016291.	2.6	20
14	Understanding of Contemporary Regional Sea-Level Change and the Implications for the Future. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000672.	23.0	74
15	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	51
16	The Semiannual and 4.4-Year Modulations of Extreme High Tides. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5907-5922.	2.6	21
17	Nineteenth-Century Tides in the Gulf of Maine and Implications for Secular Trends. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7046-7067.	2.6	29
18	A fortnightly atmospheric "tide" at Bali caused by oceanic tidal mixing in Lombok Strait. <i>Geoscience Letters</i> , 2019, 6, .	3.3	5

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19	Forcing Factors Affecting Sea Level Changes at the Coast. <i>Surveys in Geophysics</i> , 2019, 40, 1351-1397.	4.6	165
20	Sea Level Rise in the Samoan Islands Escalated by Viscoelastic Relaxation After the 2009 Samoa-Tonga Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4142-4156.	3.4	31
21	Tests of ocean-tide models by analysis of satellite-to-satellite range measurements: an update. <i>Geophysical Journal International</i> , 2019, 217, 1174-1178.	2.4	13
22	Future Nuisance Flooding in Norfolk, VA, From Astronomical Tides and Annual to Decadal Internal Climate Variability. <i>Geophysical Research Letters</i> , 2018, 45, 12,432.	4.0	26
23	Aliased Tidal Variability in Mesoscale Sea Level Anomaly Maps. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 2421-2435.	1.3	17
24	On Tidal Inference in the Diurnal Band. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 437-446.	1.3	17
25	Using an altimeter-derived internal tide model to remove tides from in situ data. <i>Geophysical Research Letters</i> , 2017, 44, 4241-4245.	4.0	17
26	A 10-Year Comparison of Water Levels Measured with a Geodetic GPS Receiver versus a Conventional Tide Gauge. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 295-307.	1.3	108
27	On the "CalMode" Correction to TOPEX Satellite Altimetry and Its Effect on the Global Mean Sea Level Time Series. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8371-8384.	2.6	72
28	Tidal Prediction. <i>Journal of Marine Research</i> , 2017, 75, 189-237.	0.3	34
29	Tides and Satellite Altimetry. , 2017, , 427-458.		12
30	On Measurements of the Tide at Churchill, Hudson Bay. <i>Atmosphere - Ocean</i> , 2016, 54, 108-116.	1.6	10
31	Tidal mixing signatures in the Indonesian seas from high-resolution sea surface temperature data. <i>Geophysical Research Letters</i> , 2016, 43, 8115-8123.	4.0	43
32	Future nuisance flooding at Boston caused by astronomical tides alone. <i>Earth's Future</i> , 2016, 4, 578-587.	6.3	76
33	M2 Internal Tides and Their Observed Wavenumber Spectra from Satellite Altimetry. <i>Journal of Physical Oceanography</i> , 2016, 46, 3-22.	1.7	101
34	Surface Pressure Tide Climatologies Deduced from a Quality-Controlled Network of Barometric Observations*. <i>Monthly Weather Review</i> , 2014, 142, 4872-4889.	1.4	25
35	Accuracy assessment of global barotropic ocean tide models. <i>Reviews of Geophysics</i> , 2014, 52, 243-282.	23.0	338
36	Long-period tidal variations in the length of day. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1498-1509.	3.4	41

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37	Consideration of tidal variations in the geocenter on satellite altimeter observations of ocean tides. <i>Geophysical Research Letters</i> , 2014, 41, 2454-2459.	4.0	13
38	Reply to comments by S. R. Dickman on "Fortnightly Earth rotation, ocean tides and mantle anelasticity". <i>Geophysical Journal International</i> , 2013, 192, 1055-1058.	2.4	0
39	Precise comparisons of bottom pressure and altimetric ocean tides. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4570-4584.	2.6	131
40	Calibration of Ocean Wave Measurements by the TOPEX, Jason-1, and Jason-2 Satellites. <i>Marine Geodesy</i> , 2012, 35, 238-257.	2.0	20
41	Fortnightly Earth rotation, ocean tides and mantle anelasticity. <i>Geophysical Journal International</i> , 2012, 189, 400-413.	2.4	30
42	Tide Predictions in Shelf and Coastal Waters: Status and Prospects. , 2011, , 191-216.		50
43	One centimeter-level observations of diurnal ocean tides from global monthly mean time-variable gravity fields. <i>Journal of Geodesy</i> , 2010, 84, 715-729.	3.6	12
44	Bottom pressure tides along a line in the southeast Atlantic Ocean and comparisons with satellite altimetry. <i>Ocean Dynamics</i> , 2010, 60, 1167-1176.	2.2	34
45	Vertical crustal motion derived from satellite altimetry and tide gauges, and comparisons with DORIS measurements. <i>Advances in Space Research</i> , 2010, 45, 1510-1522.	2.6	43
46	Assimilation of altimetry data for nonlinear shallow-water tides: Quarter-diurnal tides of the Northwest European Shelf. <i>Continental Shelf Research</i> , 2010, 30, 668-679.	1.8	111
47	Assessment of the Jason-2 Extension to the TOPEX/Poseidon, Jason-1 Sea-Surface Height Time Series for Global Mean Sea Level Monitoring. <i>Marine Geodesy</i> , 2010, 33, 447-471.	2.0	74
48	Secular changes in the solar semidiurnal tide of the western North Atlantic Ocean. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	62
49	Assimilation of GRACE tide solutions into a numerical hydrodynamic inverse model. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	18
50	Qualitative comparisons of global ocean tide models by analysis of intersatellite ranging data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	29
51	A preliminary tidal analysis of ICESat laser altimetry: Southern Ross Ice Shelf. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	16
52	Decadal Climate Variability: Is There a Tidal Connection?. <i>Journal of Climate</i> , 2007, 20, 3542-3560.	3.2	46
53	Ocean tidal solutions in Antarctica from GRACE inter-satellite tracking data. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	25
54	Propagation of the overtide M_4 through the deep Atlantic Ocean. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	33

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55	Times of peak astronomical tides. <i>Geophysical Journal International</i> , 2007, 168, 999-1004.	2.4	22
56	Tidal analysis experiments with sun-synchronous satellite altimeter data. <i>Journal of Geodesy</i> , 2007, 81, 247-257.	3.6	3
57	Secular changes of the M tide in the Gulf of Maine. <i>Continental Shelf Research</i> , 2006, 26, 422-427.	1.8	90
58	Tide model errors and GRACE gravimetry: towards a more realistic assessment. <i>Geophysical Journal International</i> , 2006, 167, 1055-1059.	2.4	97
59	Constraints on mantle anelasticity from geodetic observations, and implications for the J2 anomaly. <i>Geophysical Journal International</i> , 2006, 165, 3-16.	2.4	74
60	Mapping nonlinear shallow-water tides: a look at the past and future. <i>Ocean Dynamics</i> , 2006, 56, 416-429.	2.2	35
61	Terdiurnal Surface-Pressure Oscillations over the Continental United States. <i>Monthly Weather Review</i> , 2005, 133, 2526-2534.	1.4	10
62	A Brief Overview of Tides in the Indonesian Seas. <i>Oceanography</i> , 2005, 18, 74-79.	1.0	75
63	Numerical modeling of the global semidiurnal tide in the present day and in the last glacial maximum. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	240
64	The Global S ₁ Tide. <i>Journal of Physical Oceanography</i> , 2004, 34, 1922-1935.	1.7	70
65	Tidal Models in a New Era of Satellite Gravimetry. <i>Space Science Reviews</i> , 2003, 108, 271-282.	8.1	55
66	Semi-diurnal and diurnal tidal dissipation from TOPEX/Poseidon altimetry. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	203
67	Simultaneous Ocean Wave Measurements by the Jason and Topex Satellites, with Buoy and Model Comparisons Special Issue: Jason-1 Calibration/Validation. <i>Marine Geodesy</i> , 2003, 26, 367-382.	2.0	26
68	Deviation of Long-Period Tides from Equilibrium: Kinematics and Geostrophy. <i>Journal of Physical Oceanography</i> , 2003, 33, 822-839.	1.7	50
69	Barometric tides from ECMWF operational analyses. <i>Annales Geophysicae</i> , 2003, 21, 1897-1910.	1.6	166
70	Is asteroid 951 Gaspra in a resonant obliquity state with its spin increasing due to YORP?. <i>Journal of Geophysical Research</i> , 2002, 107, 3-1.	3.3	11
71	Atmospheric pressure corrections in geodesy and oceanography: A strategy for handling air tides. <i>Geophysical Research Letters</i> , 2002, 29, 6-1-6-4.	4.0	55
72	Short-arc analysis of intersatellite tracking data in a gravity mapping mission. <i>Journal of Geodesy</i> , 2002, 76, 307-316.	3.6	57

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73	Error spectrum for the global M2ocean tide. Geophysical Research Letters, 2001, 28, 21-24.	4.0	29
74	Estimates of internal tide energy fluxes from Topex/Poseidon Altimetry: Central North Pacific. Geophysical Research Letters, 2001, 28, 1259-1262.	4.0	108
75	Estimates of M2tidal energy dissipation from TOPEX/Poseidon altimeter data. Journal of Geophysical Research, 2001, 106, 22475-22502.	3.3	359
76	Resonant Third-Degree Diurnal Tides in the Seas off Western Europe. Journal of Physical Oceanography, 2001, 31, 3581-3586.	1.7	10
77	Constraints on energy dissipation in the Earth's body tide from satellite tracking and altimetry. Geophysical Journal International, 2001, 144, 471-480.	2.4	99
78	Comparisons of global analyses and station observations of the S2 barometric tide. Journal of Atmospheric and Solar-Terrestrial Physics, 2001, 63, 1085-1097.	1.6	22
79	Inversion of oceanic tidal currents from measured elevations. Journal of Marine Systems, 2001, 28, 1-18.	2.1	31
80	Significant dissipation of tidal energy in the deep ocean inferred from satellite altimeter data. Nature, 2000, 405, 775-778.	27.8	688
81	Lunar orbital evolution: A synthesis of recent results. Geophysical Research Letters, 1999, 26, 3045-3048.	4.0	103
82	Diurnal oscillations in atmospheric pressure at twenty-five small oceanic islands. Geophysical Research Letters, 1998, 25, 3851-3854.	4.0	13
83	Spectral analysis of highly aliased sea-level signals. Journal of Geophysical Research, 1998, 103, 24991-25003.	3.3	32
84	Accuracy assessment of recent ocean tide models. Journal of Geophysical Research, 1997, 102, 25173-25194.	3.3	255
85	The flux of tidal energy across latitude 60°S. Geophysical Research Letters, 1997, 24, 543-546.	4.0	7
86	Surface manifestation of internal tides in the deep ocean: observations from altimetry and island gauges. Progress in Oceanography, 1997, 40, 135-162.	3.2	240
87	Surface manifestation of internal tides generated near Hawaii. Geophysical Research Letters, 1996, 23, 2101-2104.	4.0	261
88	Algorithm 741: least-squares solution of a linear, bordered, block-diagonal system of equations. ACM Transactions on Mathematical Software, 1995, 21, 20-25.	2.9	0
89	Geometrical determination of the Love Number ₂ at four tidal frequencies. Geophysical Research Letters, 1995, 22, 2175-2178.	4.0	12
90	A preliminary tidal analysis of TOPEX/POSEIDON altimetry. Journal of Geophysical Research, 1994, 99, 24799.	3.3	176

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91	Satellite altimeter observations of the Mf and Mm ocean tides, with simultaneous orbit corrections. Geophysical Monograph Series, 1994, , 69-78.	0.1	12
92	Energetics of global ocean tides from Geosat altimetry. Journal of Geophysical Research, 1991, 96, 16897-16912.	3.3	145
93	On the Sea-State Bias of the Geosat Altimeter. Journal of Atmospheric and Oceanic Technology, 1991, 8, 397-408.	1.3	21
94	Observations of the Mf ocean tide from Geosat altimetry. Geophysical Research Letters, 1990, 17, 619-622.	4.0	21
95	Oceanic tides from Geosat altimetry. Journal of Geophysical Research, 1990, 95, 3069-3090.	3.3	241
96	New estimates of oceanic tidal energy dissipation from satellite altimetry. Geophysical Research Letters, 1989, 16, 73-76.	4.0	29