Graham D Quartly

List of Publications by Year
in descending order

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82 papers	3,335 citations	172457 29 h-index	155660 55 g-index
90 all docs	90 docs citations	90 times ranked	4184 citing authors

#	Article	IF	Citations
1	On the role of the Agulhas system in ocean circulation and climate. Nature, 2011, 472, 429-436.	27.8	470
2	A reduced estimate of the strength of the ocean's biological carbon pump. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	338
3	Near-ubiquity of ice-edge blooms in the Arctic. Biogeosciences, 2011, 8, 515-524.	3.3	190
4	ALES: A multi-mission adaptive subwaveform retracker for coastal and open ocean altimetry. Remote Sensing of Environment, 2014, 145, 173-189.	11.0	187
5	An improved and homogeneous altimeter sea level record from the ESA Climate Change Initiative. Earth System Science Data, 2018, 10, 281-301.	9.9	157
6	Eddies in the southern Mozambique Channel. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 69-83.	1.4	115
7	Observing Sea States. Frontiers in Marine Science, 2019, 6, .	2.5	105
8	Concurrent altimeter and infrared observations of Rossby wave propagation near 34Â°N in the northeast Atlantic. Geophysical Research Letters, 1997, 24, 889-892.	4.0	92
9	Coccolithophore dynamics in nonâ€bloom conditions during late summer in the central Iceland Basin (Julyâ€August 2007). Limnology and Oceanography, 2010, 55, 1601-1613.	3.1	83
10	Modeling Envisat RA-2 Waveforms in the Coastal Zone: Case Study of Calm Water Contamination. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 474-478.	3.1	65
11	The Effects of Rain on Topex Radar Altimeter Data. Journal of Atmospheric and Oceanic Technology, 1996, 13, 1209-1229.	1.3	64
12	Operational Monitoring of Illegal Fishing in Ghana through Exploitation of Satellite Earth Observation and AIS Data. Remote Sensing, 2019, 11, 293.	4.0	61
13	The Sea State CCI dataset v1: towards a sea state climate data record based on satellite observations. Earth System Science Data, 2020, 12, 1929-1951.	9.9	60
14	Eddies around Madagascar â€" The retroflection re-considered. Journal of Marine Systems, 2006, 63, 115-129.	2.1	57
15	A new phase in the production of quality-controlled sea level data. Earth System Science Data, 2017, 9, 557-572.	9.9	56
16	Effects of annual changes in primary productivity and ocean indices on breeding performance of tropical roseate terns in the western Indian Ocean. Marine Ecology - Progress Series, 2007, 351, 273-286.	1.9	53
17	Ocean control of the breeding regime of the sooty tern in the southwest Indian Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 130-142.	1.4	49
18	Seasonal Variations in the Region of the Agulhas Retroflection: Studies with Geosat and FRAM. Journal of Physical Oceanography, 1993, 23, 2107-2124.	1.7	47

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19	Analyzing Altimeter Artifacts: Statistical Properties of Ocean Waveforms. Journal of Atmospheric and Oceanic Technology, 2001, 18, 2074-2091.	1.3	42
20	Improving the precision of sea level data from satellite altimetry with high-frequency and regional sea state bias corrections. Remote Sensing of Environment, 2018, 218, 245-254.	11.0	41
21	Cross-calibrating ALES Envisat and CryoSat-2 Delayâ€“Doppler: A coastal altimetry study in the Indonesian Seas. Advances in Space Research, 2016, 58, 289-303.	2.6	40
22	Retrieving Sea Level and Freeboard in the Arctic: A Review of Current Radar Altimetry Methodologies and Future Perspectives. Remote Sensing, 2019, 11, 881.	4.0	40
23	Mechanisms for recent warming of the North Atlantic: Insights gained with an eddyâ€permitting model. Journal of Geophysical Research, 2008, 113, .	3.3	38
24	Global precipitation statistics from dual-frequency TOPEX altimetry. Journal of Geophysical Research, 1999, 104, 31489-31516.	3.3	35
25	High numbers of Trichodesmium and diazotrophic diatoms in the southwest Indian Ocean. Geophysical Research Letters, 2009, 36, .	4.0	35
26	Genetic and migratory evidence for sympatric spawning of tropical Pacific eels from Vanuatu. Marine Ecology - Progress Series, 2015, 521, 171-187.	1.9	33
27	Optimizing $sigma^{0}$ Information From the Jason-2 Altimeter. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 398-402.	3.1	32
28	SST Observations of the Agulhas and East Madagascar Retroflections by the TRMM Microwave Imager. Journal of Physical Oceanography, 2002, 32, 1585-1592.	1.7	31
29	The Roles of the S3MPC: Monitoring, Validation and Evolution of Sentinel-3 Altimetry Observations. Remote Sensing, 2020, 12, 1763.	4.0	31
30	The Effects of Rain onERS-1Radar Altimeter Data. Journal of Atmospheric and Oceanic Technology, 1995, 12, 1229-1247.	1.3	29
31	An intercomparison of global oceanic precipitation climatologies. Journal of Geophysical Research, 2007, 112, .	3.3	28
32	Seasonality and interannual variability of the European Slope Current from 20years of altimeter data compared with in situ measurements. Remote Sensing of Environment, 2015, 162, 196-207.	11.0	28
33	Development of an ENVISAT Altimetry Processor Providing Sea Level Continuity Between Open Ocean and Arctic Leads. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5299-5319.	6.3	28
34	Round Robin Assessment of Radar Altimeter Low Resolution Mode and Delay-Doppler Retracking Algorithms for Significant Wave Height. Remote Sensing, 2020, 12, 1254.	4.0	28
35	Determination of Oceanic Rain Rate and Rain Cell Structure from Altimeter Waveform Data. Part I: Theory. Journal of Atmospheric and Oceanic Technology, 1998, 15, 1361-1378.	1.3	27
36	Ultraplankton distribution in surface waters of the Mozambique Channel-flow cytometry and satellite imagery. Aquatic Microbial Ecology, 2003, 33, 155-161.	1.8	27

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37	A possible plankton wave in the Indian Ocean. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	23
38	Agulhas Ring Transport Efficiency From Combined Satellite Altimetry and Argo Profiles. Journal of Geophysical Research: Oceans, 2018, 123, 5874-5888.	2.6	23
39	The Madagascar Bloom: A serendipitous study. Journal of Geophysical Research: Oceans, 2013, 118, 14-25.	2.6	21
40	Wave height analysis from 10 years of observations in the Norwegian Sea. Continental Shelf Research, 2014, 72, 47-56.	1.8	21
41	Rossby waves: synergy in action. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 57-63.	3.4	20
42	Removing Intra-1-Hz Covariant Error to Improve Altimetric Profiles of $sigma^{0}$ and Sea Surface Height. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3741-3752.	6.3	20
43	An Overview of Requirements, Procedures and Current Advances in the Calibration/Validation of Radar Altimeters. Remote Sensing, 2021, 13, 125.	4.0	20
44	Global coastal attenuation of wind-waves observed with radar altimetry. Nature Communications, 2021, 12, 3812.	12.8	20
45	Progress in satellite remote sensing for studying physical processes at the ocean surface and its borders with the atmosphere and sea ice. Progress in Physical Geography, 2016, 40, 215-246.	3.2	19
46	Sea State and Rain: A Second Take on Dual-Frequency Altimetry. Marine Geodesy, 2004, 27, 133-152.	2.0	17
47	Characteristics of mid-latitude Rossby wave propagation from multiple satellite datasets. International Journal of Remote Sensing, 2004, 25, 1297-1302.	2.9	17
48	Evaluation of Sentinel-3A Wave Height Observations Near the Coast of Southwest England. Remote Sensing, 2019, 11, 2998.	4.0	17
49	Achieving Accurate Altimetry across Storms: Improved Wind and Wave Estimates from C Band. Journal of Atmospheric and Oceanic Technology, 1997, 14, 705-715.	1.3	16
50	Annual Amphidromes: A Common Feature in the Ocean?. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 423-427.	3.1	16
51	Mozambique Channel eddies in GCMs: A question of resolution and slippage. Ocean Modelling, 2013, 63, 56-67.	2.4	16
52	Changes in significant and maximum wave heights in the Norwegian Sea. Global and Planetary Change, 2014, 113, 68-76.	3.5	14
53	Changes in oceanic precipitation during the 1997-98 El NiÃ±o. Geophysical Research Letters, 2000, 27, 2293-2296.	4.0	13
54	Chapter 6 Remote sensing of oceanic extra-tropical Rossby waves. Elsevier Oceanography Series, 2000, , 99-123.	0.1	12

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55	Determining Atlantic Ocean province contrasts and variations. Progress in Oceanography, 2017, 158, 19-40.	3.2	12
56	Satellite observations of the Agulhas Current system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 51-56.	3.4	11
57	Improving the Intercalibration of $sigma^{0}$ Values for the Jason-1 and Jason-2 Altimeters. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 538-542.	3.1	11
58	Interannual variations in precipitation: The effect of the North Atlantic and Southern oscillations as seen in a satellite precipitation data set and in models. Journal of Geophysical Research, 2006, 111, .	3.3	10
59	Exploitation of error correlation in a large analysis validation: GlobCurrent case study. Remote Sensing of Environment, 2018, 217, 476-490.	11.0	10
60	Sensitivity of Altimeter Wave Height Assessment to Data Selection. Remote Sensing, 2020, 12, 2608.	4.0	10
61	Monitoring and Cross-Calibration of AltimeterÏƒ0through Dual-Frequency Backscatter Measurements. Journal of Atmospheric and Oceanic Technology, 2000, 17, 1252-1258.	1.3	9
62	Validation of the TOPEX rain algorithm: Comparison with ground-based radar. Journal of Geophysical Research, 2002, 107, ACL 3-1.	3.3	9
63	Metocean Comparisons of Jason-2 and AltiKaâ€”A Method to Develop a New Wind Speed Algorithm. Marine Geodesy, 2015, 38, 437-448.	2.0	9
64	Jason-1/Jason-2 Metocean Comparisons and Monitoring. Marine Geodesy, 2010, 33, 256-271.	2.0	8
65	Metabolically active, non-nitrogen fixing,Trichodesmiumin UK coastal waters during winter. Journal of Plankton Research, 2016, 38, 673-678.	1.8	8
66	Removal of Covariant Errors from Altimetric Wave Height Data. Remote Sensing, 2019, 11, 2319.	4.0	8
67	The Gate Dependence of Geophysical Retrievals from the TOPEX Altimeter. Journal of Atmospheric and Oceanic Technology, 2000, 17, 1247-1251.	1.3	5
68	Eddy variability east of Madagascar. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 77-79.	3.4	5
69	Realizing Envisat's potential for rain cloud studies. Geophysical Research Letters, 2007, 34, .	4.0	5
70	Improving the altimetric rain record from Jasonâ€1 and Jasonâ€2. Journal of Geophysical Research, 2010, 115, .	3.3	5
71	Initial Examination of AltiKa's Individual Echoes. Marine Geodesy, 2015, 38, 73-85.	2.0	4
72	Introduction to the Special Issue on "Satellite Altimetry: New Sensors and New Applications". Sensors, 2006, 6, 616-619.	3.8	3

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73	A Statistical Modeling Framework for Characterising Uncertainty in Large Datasets: Application to Ocean Colour. Remote Sensing, 2018, 10, 695.	4.0	3
74	Ensuring that the Sentinel-3A altimeter provides climate-quality data. , 2017, , .		3
75	Nitrite regeneration in the oligotrophic Atlantic Ocean. Biogeosciences, 2022, 19, 1355-1376.	3.3	3
76	Exploring the synergy between along-track altimetry and tracer fronts to reconstruct surface ocean currents. Remote Sensing of Environment, 2018, 216, 747-757.	11.0	2
77	USE OF AMBIENT SOUND MEASUREMENTS IN AN INTEGRATED SYSTEM FOR OCEAN MONITORING. Gayana, 2004, 68, .	0.1	1
78	Altimeter Repeat-Track Analysis-A Comparison of Various Algorithms for Producing the Mean Profile. Journal of Atmospheric and Oceanic Technology, 1995, 12, 674-686.	1.3	0
79	Climatological Effects on the Breeding of Terns. , 2008, , .		0
80	Linking Surface and Sub-Surface Variability in Drake Passage. , 2008, , .		0
81	Corrections to â€œRemoving Intra-1-Hz Covariant Error to Improve Altimetric Profiles of $sigma^{0}$ and Sea Surface Heightâ€•[Jun 19 DOI: 10.1109/TGRS.2018.2886998]. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8327-8327.	6.3	0
82	Assessing altimetry close to the coast. , 2017, , .		0