Richard Coleman

List of Publications by Year
in descending order

87 papers	3,963 citations	117571 34 h-index	128225 60 g-index
93 all docs	93 docs citations	93 times ranked	3929 citing authors

#	Article	IF	Citations
1	Estimates of the Regional Distribution of Sea Level Rise over the 1950â€“2000 Period. Journal of Climate, 2004, 17, 2609-2625.	1.2	531
2	A new tide model for the Antarctic ice shelves and seas. Annals of Glaciology, 2002, 34, 247-254.	2.8	331
3	Assessment of Mangrove Response to Projected Relative Sea-Level Rise And Recent Historical Reconstruction of Shoreline Position. Environmental Monitoring and Assessment, 2007, 124, 105-130.	1.3	161
4	Southern Ocean frontal structure and sea-ice formation rates revealed by elephant seals. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11634-11639.	3.3	152
5	Surface Eddy Momentum Flux and Velocity Variances in the Southern Ocean from Geosat Altimetry. Journal of Physical Oceanography, 1994, 24, 2050-2071.	0.7	146
6	Wind forced low frequency variability of the East Australia Current. Geophysical Research Letters, 2008, 35, .	1.5	131
7	Mapping the grounding zone of the Amery Ice Shelf, East Antarctica using InSAR, MODIS and ICESat. Antarctic Science, 2009, 21, 515-532.	0.5	124
8	Modeling the basal melting and marine ice accretion of the Amery Ice Shelf. Journal of Geophysical Research, 2012, 117, .	3.3	114
9	Classification of the Australian continental shelf based on predicted sediment threshold exceedance from tidal currents and swell waves. Marine Geology, 2004, 211, 1-20.	0.9	109
10	Iceberg calving from the Amery Ice Shelf, East Antarctica. Annals of Glaciology, 2002, 34, 241-246.	2.8	84
11	Eddy momentum flux and its contribution to the Southern Ocean momentum balance. Nature, 1992, 357, 482-484.	13.7	82
12	An investigation into the forces that drive ice-shelf rift propagation on the Amery Ice Shelf, East Antarctica. Journal of Glaciology, 2008, 54, 17-27.	1.1	77
13	Structural Monitoring of Cable-Stayed Bridge: Analysis of GPS versus Modeled Deflections. Journal of Surveying Engineering, - ASCE, 2007, 133, 23-28.	1.0	68
14	Decadal variability of East Australian Current transport inferred from repeated highâ€density XBT transects, a CTD survey and satellite altimetry. Journal of Geophysical Research, 2008, 113, .	3.3	67
15	Delivering Sustained, Coordinated, and Integrated Observations of the Southern Ocean for Global Impact. Frontiers in Marine Science, 2019, 6, .	1.2	67
16	Absolute Calibration in Bass Strait, Australia: TOPEX, Jason-1 and OSTM/Jason-2. Marine Geodesy, 2011, 34, 242-260.	0.9	65
17	Revisiting the circulation of the East Australian Current: Its path, separation, and eddy field. Progress in Oceanography, 2019, 176, 102139.	1.5	65
18	Circulation of modified <scp>C</scp>ircumpolar <scp>D</scp>eep <scp>W</scp>ater and basal melt beneath the <scp>A</scp>mery <scp>I</scp>ce <scp>S</scp>helf, <scp>E</scp>ast <scp>A</scp>ntarctica. Journal of Geophysical Research: Oceans, 2015, 120, 3098-3112.	1.0	64

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19	Episodic propagation of a rift on the Amery Ice Shelf, East Antarctica. Geophysical Research Letters, 2005, 32, .	1.5	63
20	Variability of biological production in low windâ€forced regional upwelling systems: A case study off southeastern Australia. Limnology and Oceanography, 2009, 54, 1548-1558.	1.6	61
21	The Earth's shape and gravity field: a report of progress from 1958 to 1982. Geophysical Journal International, 1983, 74, 25-54.	1.0	59
22	Absolute Calibration of TOPEX/Poseidon and Jason-1 Using GPS Buoys in Bass Strait, Australia Special Issue: Jason-1 Calibration/Validation. Marine Geodesy, 2003, 26, 285-304.	0.9	58
23	Ice-shelf elevation changes due to atmospheric pressure variations. Journal of Glaciology, 2003, 49, 521-526.	1.1	57
24	Redefinition of the Amery Ice Shelf, East Antarctica, grounding zone. Journal of Geophysical Research, 2002, 107, ECV 1-1.	3.3	52
25	Seismicity and deformation associated with ice-shelf rift propagation. Journal of Glaciology, 2007, 53, 523-536.	1.1	51
26	Digital elevation models for the Lambert Glacierâ€“Amery Ice Shelf system, East Antarctica, from ERS-1 satellite radar altimetry. Journal of Glaciology, 2000, 46, 553-560.	1.1	48
27	Multi-year monitoring of rift propagation on the Amery Ice Shelf, East Antarctica. Geophysical Research Letters, 2005, 32, .	1.5	48
28	Impact of solid Earth tide models on GPS coordinate and tropospheric time series. Geophysical Research Letters, 2006, 33, .	1.5	47
29	Spurious periodic horizontal signals in sub-daily GPS position estimates. Journal of Geodesy, 2003, 77, 15-21.	1.6	46
30	The Sea Level at Port Arthur, Tasmania, from 1841 to the Present. Geophysical Research Letters, 2003, 30, .	1.5	46
31	Technique for Precise Measurement of Large-Scale Silos and Tanks. Journal of Surveying Engineering, - ASCE, 1996, 122, 14-25.	1.0	45
32	Estimating global shelf sediment mobility due to swell waves. Marine Geology, 1998, 150, 171-177.	0.9	45
33	Sediment mobility due to currents and waves in the Torres Straitâ€“Gulf of Papua region. Continental Shelf Research, 2004, 24, 2297-2316.	0.9	43
34	TOPEX/Poseidon and Jason-1: Absolute Calibration in Bass Strait, Australia. Marine Geodesy, 2004, 27, 107-131.	0.9	38
35	The cavity under the Amery Ice Shelf, East Antarctica. Journal of Glaciology, 2008, 54, 881-887.	1.1	36
36	Ice velocities of the Lambert Glacier from static GPS observations. Earth, Planets and Space, 2000, 52, 1031-1036.	0.9	35

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37	Characterizing and minimizing the effects of noise in tide gauge time series: relative and geocentric sea level rise around Australia. Geophysical Journal International, 2013, 194, 719-736.	1.0	30
38	Measurement and assessment of geometric imperfections in thin-walled panels. Thin-Walled Structures, 1999, 33, 103-126.	2.7	29
39	A southern hemisphere verification for the TOPEX/POSEIDON satellite altimeter mission. Journal of Geophysical Research, 1994, 99, 24505.	3.3	28
40	Coastal Tide Gauge Calibration: A Case Study at Macquarie Island Using GPS Buoy Techniques. Journal of Coastal Research, 2008, 244, 1071-1079.	0.1	27
41	Twentieth century constraints on sea level change and earthquake deformation at Macquarie Island. Geophysical Journal International, 0, 182, 781-796.	1.0	26
42	Patterns of Vertical Velocity Induced by Eddy Distortion in an Ocean Model. Journal of Geophysical Research: Oceans, 2018, 123, 2274-2292.	1.0	26
43	A search for seamounts in the Southern Cook and Austral Region. Geophysical Research Letters, 1982, 9, 389-392.	1.5	25
44	A 4â€decade record of elevation change of the Amery Ice Shelf, East Antarctica. Journal of Geophysical Research, 2009, 114, .	3.3	25
45	Velocity change of the Amery Ice Shelf, East Antarctica, during the period 1968â€“1999. Journal of Geophysical Research, 2007, 112, .	3.3	24
46	Dual-frequency altimeter signal from Envisat on the Amery ice-shelf. Remote Sensing of Environment, 2007, 109, 285-294.	4.6	22
47	Comparison between computed balance velocities and GPS measurements in the Lambert Glacier basin, East Antarctica. Annals of Glaciology, 2003, 37, 337-343.	2.8	21
48	Variance-covariance estimation of GPS Networks. Bulletin Geodesique, 1994, 68, 77-87.	0.4	20
49	Strategies for High Precision Processing of GPS Measurements with Application to the Amery Ice Shelf, East Antarctica. GPS Solutions, 2000, 4, 2-12.	2.2	20
50	Barotropic tides beneath the Amery Ice Shelf. Journal of Geophysical Research, 2006, 111, .	3.3	20
51	Vibrations of Mertz Glacier ice tongue, East Antarctica. Journal of Glaciology, 2012, 58, 665-676.	1.1	20
52	Do <scp>E</scp>ast <scp>A</scp>ustralian <scp>C</scp>urrent anticyclonic eddies leave the <scp>T</scp>asman <scp>S</scp>ea?. Journal of Geophysical Research: Oceans, 2015, 120, 8099-8114.	1.0	19
53	Analysis of collinear passes of satellite altimeter data. Journal of Geophysical Research, 1992, 97, 2265-2277.	3.3	18
54	The influence of lateral mixing on a phytoplankton bloom: Distribution in the Kerguelen Plateau region. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 963-973.	0.6	18

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55	Subsidence and flexure along the Pratt-Welker seamount chain. Journal of Geodynamics, 1984, 1, 29-60.	0.7	17
56	Treatment of horizontal and vertical tidal signals in GPS data: A case study on a floating ice shelf. Earth, Planets and Space, 2000, 52, 1043-1047.	0.9	17
57	Cold Ocean Cavity and Weak Basal Melting of the SÃ¸rsdal Ice Shelf Revealed by Surveys Using Autonomous Platforms. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015882.	1.0	17
58	Interannual variability in the Indian Ocean using altimeter and IX1-expendable bathy-thermograph (XBT) data: Does the 18-month signal exist?. Geophysical Research Letters, 2006, 33, .	1.5	14
59	Energetics of internal tides around the Kerguelen Plateau from modeling and altimetry. Journal of Geophysical Research, 2011, 116, .	3.3	14
60	Impact of data assimilation on vertical velocities in an eddy resolving ocean model. Ocean Modelling, 2018, 131, 71-85.	1.0	13
61	Surface Profiling System for Measurement of Engineering Structures. Journal of Surveying Engineering, - ASCE, 1996, 122, 3-13.	1.0	12
62	Barotropic tides of the Southern Indian Ocean and the Amery Ice Shelf cavity. Geophysical Research Letters, 2007, 34, .	1.5	12
63	Satellite altimetry and Earth sciences: A handbook of techniques and applications. Eos, 2001, 82, 376-376.	0.1	11
64	Temporal Variations in Regional Models of the Sargasso Sea from GEOS-3 Altimetry. Journal of Physical Oceanography, 1980, 10, 171-185.	0.7	9
65	On the recovery of ocean dynamic information from satellite altimetry. Marine Geodesy, 1980, 4, 351-386.	0.9	9
66	Modelled fracture and calving on the Totten Ice Shelf. Cryosphere, 2018, 12, 2401-2411.	1.5	9
67	Seasonal and Interannual Variations of the Leeuwin Current off Western Australia from TOPEX/Poseidon Satellite Altimetry. Terrestrial, Atmospheric and Oceanic Sciences, 2008, 19, 135.	0.3	8
68	On the satellite altimeter crossover problem. Journal of Geodesy, 1997, 71, 83-96.	1.6	7
69	Toward the widespread application of low-cost technologies in coastal ocean observing (Internet of) Tj ETQq1 1 0.784314 rgBT /Over	0.6	7
70	Strain effects near palmdale associated with the San Fernando Earthquake (1971). Journal of Geophysical Research, 1989, 94, 5651-5658.	3.3	5
71	Brief communication: widespread potential for seawater infiltration on Antarctic ice shelves. Cryosphere, 2018, 12, 3853-3859.	1.5	5
72	Deploying an AUV beneath the SÃ¸rsdal Ice Shelf: Recommendations from an expert-panel workshop. , 2018, , .		5

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73	Investigations of the Tasman Sea by satellite altimetry. Marine and Freshwater Research, 1984, 35, 619.	0.7	5
74	Local crossover analysis of exactly repeating satellite altimeter data. Journal of Geodesy, 1997, 72, 31-43.	1.6	4
75	GPS-Derived Strain Rates on an Active Ice Shelf Rift. Survey Review, 2009, 41, 14-25.	0.7	4
76	A decade of change in the hydraulic connection between an Antarctic epishelf lake and the ocean. Journal of Glaciology, 2012, 58, 223-228.	1.1	4
77	Reply to comments by Lerch et al. on 'The Earth's shape and gravity field: a report of progress from 1958 to 1982'. Geophysical Journal International, 1986, 86, 665-668.	1.0	3
78	On the analysis of repeated geodetic experiments. Journal of Geodesy, 1999, 73, 237-245.	1.6	3
79	Assessment of Geoid Models Offshore Western Australia UsingIn-SituMeasurements. Journal of Coastal Research, 2009, 253, 581-588.	0.1	3
80	Recent crustal deformation in southâ€east Australia: Fact or fiction?. Australian Journal of Earth Sciences, 1984, 31, 371-377.	0.4	2
81	On the low-frequency variability in the Indian Ocean. , 2007, , 47-50.		2
82	INTERANNUAL OSCILLATORY MODES IN THE INDIAN OCEAN AND PREDICTABILITY OF THE INDIAN OCEAN DIPOLE. , 0, , 69-85.		2
83	An observation-based approach to calculating ice-shelf calving mass flux. Remote Sensing of Environment, 2022, 272, 112918.	4.6	2
84	Surveying the deflection of an arch bridge to sub-millimetre precision. Journal of Spatial Science, 1993, 38, 4-14.	0.1	1
85	On the recovery of regional ocean tide models using satellite altimetry. Marine Geodesy, 1980, 4, 331-349.	0.9	0
86	Seismic Reflections from Pycnoclines in the Water Column Beneath an Ice Shelf. ASEG Extended Abstracts, 2007, 2007, 1-1.	0.1	0
87	Effect of Deflection Increment Size on Apparent Performance of Fiber Reinforced Concrete Beams and Panels. Journal of ASTM International, 2011, 8, 1-11.	0.2	0