

Mark A Merrifield

List of Publications by Year in descending order

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98
papers

5,781
citations

66343
42
h-index

79698
73
g-index

100
all docs

100
docs citations

100
times ranked

5173
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal Forecasting Skill of Seaâ€Level Anomalies in a Multiâ€Model Prediction Framework. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017060.	2.6	17
2	An early warning system for wave-driven coastal flooding at Imperial Beach, CA. Natural Hazards, 2021, 108, 2591-2612.	3.4	16
3	Rapid increases and extreme months in projections of United States high-tide flooding. Nature Climate Change, 2021, 11, 584-590.	18.8	58
4	Enhanced Surf Zone and Wave Runup Observations with Hovering Drone-Mounted Lidar. Journal of Atmospheric and Oceanic Technology, 2021, 38, 1967-1978.	1.3	3
5	Seasonal Modulation of Dissolved Oxygen in the Equatorial Pacific by Tropical Instability Vortices. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017567.	2.6	9
6	Projecting Climate Dependent Coastal Flood Risk With a Hybrid Statistical Dynamical Model. Earth's Future, 2021, 9, e2021EF002285.	6.3	14
7	Boussinesq modeling of wave processes in field fringing reef environments. Applied Ocean Research, 2020, 95, 102025.	4.1	8
8	Hydrography and energetics of a cold subpolar fjord: Andvord Bay, western Antarctic Peninsula. Progress in Oceanography, 2020, 181, 102224.	3.2	13
9	Predicting site-specific storm wave run-up. Natural Hazards, 2020, 104, 493-517.	3.4	18
10	A multivariate, stochastic, climate-based wave emulator for shoreline change modelling. Ocean Modelling, 2020, 154, 101695.	2.4	17
11	The Influence of A Crossâ€Reef Channel On the Waveâ€Driven Setup and Circulation at Ipan, Guam. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015722.	2.6	6
12	Seasonal-to-interannual prediction of North American coastal marine ecosystems: Forecast methods, mechanisms of predictability, and priority developments. Progress in Oceanography, 2020, 183, 102307.	3.2	61
13	Crossâ€Shore Structure of Tidally Driven Alongshore Flow Over Rough Bathymetry. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016264.	2.6	4
14	Higher Sea Levels at Hawaii Caused by Strong El NiÃ±o and Weak Trade Winds. Journal of Climate, 2020, 33, 3037-3059.	3.2	14
15	Understanding of Contemporary Regional Seaâ€Level Change and the Implications for the Future. Reviews of Geophysics, 2020, 58, e2019RG000672.	23.0	74
16	Global Oceans. Bulletin of the American Meteorological Society, 2020, 101, S129-S184.	3.3	12
17	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. Frontiers in Marine Science, 2019, 6, .	2.5	51
18	The Semiannual and 4.4â€Year Modulations of Extreme High Tides. Journal of Geophysical Research: Oceans, 2019, 124, 5907-5922.	2.6	21

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19	What Caused Recent Shifts in Tropical Pacific Decadal Sea Level Trends?. Journal of Geophysical Research: Oceans, 2019, 124, 7575-7590.	2.6	9
20	Sixteen years of bathymetry and waves at San Diego beaches. Scientific Data, 2019, 6, 161.	5.3	67
21	Eddy Wake Generation From Broadband Currents Near Palau. Journal of Geophysical Research: Oceans, 2019, 124, 4891-4903.	2.6	40
22	Forcing Factors Affecting Sea Level Changes at the Coast. Surveys in Geophysics, 2019, 40, 1351-1397.	4.6	165
23	A Statistical Model for Frequency of Coastal Flooding in Honolulu, Hawaii, During the 21st Century. Journal of Geophysical Research: Oceans, 2019, 124, 2787-2802.	2.6	28
24	Prey-size plastics are invading larval fish nurseries. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24143-24149.	7.1	108
25	Energy and Momentum Lost to Wake Eddies and Lee Waves Generated by the North Equatorial Current and Tidal Flows at Peleliu, Palau. Oceanography, 2019, 32, 110-125.	1.0	24
26	Tropical Western Pacific Thermal Structure and its Relationship to Ocean Surface Variables: A Numerical State Estimate and Forereef Temperature Records. Oceanography, 2019, 32, 156-163.	1.0	6
27	Observations of Near-Inertial Surface Currents at Palau. Oceanography, 2019, 32, 74-83.	1.0	6
28	An Alongshore Momentum Budget Over a Fringing Tropical Fore Reef. Journal of Geophysical Research: Oceans, 2018, 123, 7839-7855.	2.6	10
29	Twentieth Century Seawater $\delta^{18}O$ Dynamics and Implications for Coral-Based Climate Reconstruction. Paleoceanography and Paleoclimatology, 2018, 33, 606-625.	2.9	17
30	Depth-Dependent Thermal Stress Around Corals in the Tropical Pacific Ocean. Geophysical Research Letters, 2018, 45, 9739-9747.	4.0	30
31	Interdecadal Sea Level Variations in the Pacific: Distinctions Between the Tropics and Extratropics. Geophysical Research Letters, 2018, 45, 6604-6610.	4.0	11
32	Regional influences on reconstructed global mean sea level. Geophysical Research Letters, 2017, 44, 3274-3282.	4.0	3
33	Trends and interannual variability of mass and steric sea level in the Tropics and Asian Seas. Journal of Geophysical Research: Oceans, 2017, 122, 6254-6276.	2.6	8
34	Coastal-trapped behavior of the diurnal internal tide at Oahu, Hawaii. Journal of Geophysical Research: Oceans, 2017, 122, 4257-4273.	2.6	4
35	Infragravity waves on fringing reefs in the tropical Pacific: Dynamic setup. Journal of Geophysical Research: Oceans, 2016, 121, 3010-3028.	2.6	37
36	An ongoing shift in Pacific Ocean sea level. Journal of Geophysical Research: Oceans, 2016, 121, 5084-5097.	2.6	54

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37	Forcing of recent decadal variability in the equatorial and North Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6762-6778.	2.6	60
38	Near-island biological hotspots in barren ocean basins. <i>Nature Communications</i> , 2016, 7, 10581.	12.8	198
39	Modeling wave processes over fringing reefs with an excavation pit. <i>Coastal Engineering</i> , 2016, 109, 9-19.	4.0	39
40	Temperature variability caused by internal tides in the coral reef ecosystem of Hanauma bay, Hawaii. <i>Continental Shelf Research</i> , 2016, 116, 1-12.	1.8	12
41	Temporal variability of marine debris deposition at Tern Island in the Northwestern Hawaiian Islands. <i>Marine Pollution Bulletin</i> , 2015, 101, 200-207.	5.0	25
42	Characterizing seawater oxygen isotopic variability in a regional ocean modeling framework: Implications for coral proxy records. <i>Paleoceanography</i> , 2015, 30, 1573-1593.	3.0	23
43	A unique asymmetry in the pattern of recent sea level change. <i>Geophysical Research Letters</i> , 2014, 41, 7675-7683.	4.0	43
44	Observations and estimates of wave-driven water level extremes at the Marshall Islands. <i>Geophysical Research Letters</i> , 2014, 41, 7245-7253.	4.0	68
45	Energy transfer between wind waves and low-frequency oscillations on a fringing reef, Japan, Guam. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6709-6724.	2.6	55
46	Marshall Islands Fringing Reef and Atoll Lagoon Observations of the Tohoku Tsunami. <i>Pure and Applied Geophysics</i> , 2014, 171, 3351-3363.	1.9	17
47	Wind-Driven Coastal Sea Level Variability in the Northeast Pacific. <i>Journal of Climate</i> , 2014, 27, 4733-4751.	3.2	45
48	Recent Walker circulation strengthening and Pacific cooling amplified by Atlantic warming. <i>Nature Climate Change</i> , 2014, 4, 888-892.	18.8	480
49	Diurnal cross-shore thermal exchange on a tropical forereef. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6101-6120.	2.6	26
50	Water level effects on breaking wave setup for Pacific Island fringing reefs. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 914-932.	2.6	107
51	Annual maximum water levels from tide gauges: Contributing factors and geographic patterns. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2535-2546.	2.6	71
52	Multidecadal sea level anomalies and trends in the western tropical Pacific. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	142
53	Sensitivity of internal tide generation in Hawaii. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	19
54	Is there a 60-year oscillation in global mean sea level?. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	163

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55	Wave-driven sea level anomalies at the Midway tide gauge as an index of North Pacific storminess over the past 60 years. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	28
56	Regional sea level trends due to a Pacific trade wind intensification. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	118
57	The dissipation of wind wave energy across a fringing reef at Ipan, Guam. <i>Coral Reefs</i> , 2011, 30, 71-82.	2.2	98
58	A Shift in Western Tropical Pacific Sea Level Trends during the 1990s. <i>Journal of Climate</i> , 2011, 24, 4126-4138.	3.2	190
59	Incoherent Nature of M2 Internal Tides at the Hawaiian Ridge. <i>Journal of Physical Oceanography</i> , 2011, 41, 2021-2036.	1.7	70
60	Wave setup over a Pacific Island fringing reef. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	92
61	Interference Pattern and Propagation of the M2 Internal Tide South of the Hawaiian Ridge. <i>Journal of Physical Oceanography</i> , 2010, 40, 311-325.	1.7	89
62	The Surface Expression of Semidiurnal Internal Tides near a Strong Source at Hawaii. Part I: Observations and Numerical Predictions*. <i>Journal of Physical Oceanography</i> , 2010, 40, 1155-1179.	1.7	37
63	An Anomalous Recent Acceleration of Global Sea Level Rise. <i>Journal of Climate</i> , 2009, 22, 5772-5781.	3.2	157
64	Model Estimates of M2 Internal Tide Generation over Mid-Atlantic Ridge Topography. <i>Journal of Physical Oceanography</i> , 2009, 39, 2635-2651.	1.7	87
65	Forcing of resonant modes on a fringing reef during tropical storm Manu. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	91
66	Energetics of M2 Barotropic-to-Baroclinic Tidal Conversion at the Hawaiian Islands. <i>Journal of Physical Oceanography</i> , 2008, 38, 2205-2223.	1.7	162
67	Boundary Mixing Associated with Tidal and Near-Inertial Internal Waves. <i>Journal of Physical Oceanography</i> , 2008, 38, 1238-1252.	1.7	8
68	Open boundary conditions for regional tidal simulations. <i>Ocean Modelling</i> , 2007, 18, 194-209.	2.4	80
69	Video-based observations of nearshore sand ripples and ripple migration. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13
70	Space geodetic determination of spatial variability in relative sea level change, Los Angeles basin. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	47
71	Diagnosing a partly standing internal wave in Mamala Bay, Oahu. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	42
72	Infrasound from large surf. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	28

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73	Temporal variability of current-driven upwelling at Jarvis Island. Journal of Geophysical Research, 2006, 111, .	3.3	42
74	Tidal Mixing Events on the Deep Flanks of Kaena Ridge, Hawaii. Journal of Physical Oceanography, 2006, 36, 1202-1219.	1.7	58
75	Structure, Propagation, and Mixing of Energetic Baroclinic Tides in Mamala Bay, Oahu, Hawaii. Journal of Physical Oceanography, 2006, 36, 997-1018.	1.7	82
76	Flow and Mixing around a Small Seamount on Kaena Ridge, Hawaii. Journal of Physical Oceanography, 2006, 36, 1036-1052.	1.7	41
77	Internal Tides and Turbulence along the 3000-m Isobath of the Hawaiian Ridge. Journal of Physical Oceanography, 2006, 36, 1165-1183.	1.7	91
78	Sea level rise at Honolulu and Hilo, Hawaii: GPS estimates of differential land motion. Geophysical Research Letters, 2005, 32, .	4.0	32
79	Structure and variability of semidiurnal internal tides in Mamala Bay, Hawaii. Journal of Geophysical Research, 2004, 109, .	3.3	43
80	Extreme sea level events at Hawaii: Influence of mesoscale eddies. Geophysical Research Letters, 2004, 31, .	4.0	43
81	Interdecadal Sea Level Fluctuations at Hawaii. Journal of Physical Oceanography, 2004, 34, 2514-2524.	1.7	27
82	Mass transfer limitation of nutrient uptake by a wave-dominated reef flat community. Limnology and Oceanography, 2004, 49, 1820-1831.	3.1	145
83	On the spring-neap variability and age of the internal tide at the Hawaiian Ridge. Journal of Geophysical Research, 2003, 108, .	3.3	27
84	Internal tide scattering at seamounts, ridges, and islands. Journal of Geophysical Research, 2003, 108, .	3.3	54
85	Internal tide scattering at the Line Islands Ridge. Journal of Geophysical Research, 2003, 108, .	3.3	42
86	From Tides to Mixing Along the Hawaiian Ridge. Science, 2003, 301, 355-357.	12.6	312
87	Technical Issues and Recommendations Related to the Installation of Continuous GPS Stations at Tide Gauges. Marine Geodesy, 2002, 25, 87-99.	2.0	37
88	Model estimates of M2 internal tide energetics at the Hawaiian Ridge. Journal of Geophysical Research, 2002, 107, 5-1.	3.3	163
89	Numerical simulations of a storm-generated island-trapped wave event at the Hawaiian Islands. Journal of Geophysical Research, 2002, 107, 33-1.	3.3	19
90	Annual and interannual changes on a reef-fringed pocket beach: Kailua Bay, Hawaii. Marine Geology, 2002, 190, 553-580.	2.1	56

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91	The generation of internal tides at the Hawaiian Ridge. Geophysical Research Letters, 2001, 28, 559-562.	4.0	132
92	Interannual Geostrophic Current Anomalies in the Near-Equatorial Western Pacific. Journal of Physical Oceanography, 2000, 30, 3-14.	1.7	20
93	Steep beach morphology changes due to energetic wave forcing. Marine Geology, 2000, 162, 443-458.	2.1	76
94	Interannual sea level changes in the tropical Pacific associated with ENSO. Geophysical Research Letters, 1999, 26, 3317-3320.	4.0	26
95	Solitary waves in the western equatorial Pacific Ocean. Geophysical Research Letters, 1997, 24, 1603-1606.	4.0	23
96	A Comparison of Long Coastal-trapped Wave Theory with Remote-Storm-generated Wave Events in the Gulf of California. Journal of Physical Oceanography, 1992, 22, 5-18.	1.7	19
97	Detecting Propagating Signals with Complex Empirical Orthogonal Functions: A Cautionary Note. Journal of Physical Oceanography, 1990, 20, 1628-1633.	1.7	56
98	Advances in Doppler sonar technology. , 0, , .		5