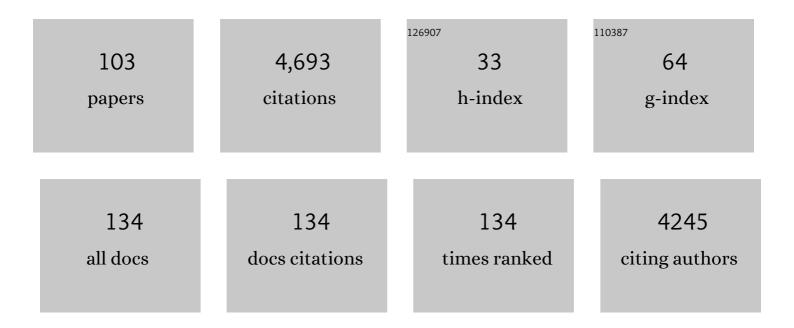
Curt D Storlazzi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The effectiveness of coral reefs for coastal hazard risk reduction and adaptation. Nature Communications, 2014, 5, 3794.	12.8	577
2	Doubling of coastal flooding frequency within decades due to sea-level rise. Scientific Reports, 2017, 7, 1399.	3.3	518
3	Most atolls will be uninhabitable by the mid-21st century because of sea-level rise exacerbating wave-driven flooding. Science Advances, 2018, 4, eaap9741.	10.3	279
4	The influence of coral reefs and climate change on waveâ€driven flooding of tropical coastlines. Geophysical Research Letters, 2015, 42, 6407-6415.	4.0	198
5	Numerical modeling of the impact of sea-level rise on fringing coral reef hydrodynamics and sediment transport. Coral Reefs, 2011, 30, 83-96.	2.2	159
6	Many Atolls May be Uninhabitable Within Decades Due to Climate Change. Scientific Reports, 2015, 5, 14546.	3.3	135
7	Wave- and tidally-driven flow and sediment flux across a fringing coral reef: Southern Molokai, Hawaii. Continental Shelf Research, 2004, 24, 1397-1419.	1.8	122
8	Observations of wave transformation over a fringing coral reef and the importance of lowâ€frequency waves and offshore water levels to runup, overwash, and coastal flooding. Journal of Geophysical Research: Oceans, 2016, 121, 3121-3140.	2.6	112
9	Influence of El Nino-Southern Oscillation (ENSO) events on the evolution of central California's shoreline. Bulletin of the Geological Society of America, 2000, 112, 236-249.	3.3	106
10	What a drag: Quantifying the global impact of chronic bottom trawling on continental shelf sediment. Journal of Marine Systems, 2016, 159, 109-119.	2.1	104
11	Sediment resuspension and transport patterns on a fringing reef flat, Molokai, Hawaii. Coral Reefs, 2004, 23, 559.	2.2	91
12	The use (and misuse) of sediment traps in coral reef environments: theory, observations, and suggested protocols. Coral Reefs, 2011, 30, 23-38.	2.2	90
13	A model for wave control on coral breakage and species distribution in the Hawaiian Islands. Coral Reefs, 2005, 24, 43-55.	2.2	89
14	The influence of grain size, grain color, and suspended-sediment concentration on light attenuation: Why fine-grained terrestrial sediment is bad for coral reef ecosystems. Coral Reefs, 2015, 34, 967-975.	2.2	88
15	End of the chain? Rugosity and fine-scale bathymetry from existing underwater digital imagery using structure-from-motion (SfM) technology. Coral Reefs, 2016, 35, 889-894.	2.2	87
16	Will the Effects of Sea-Level Rise Create Ecological Traps for Pacific Island Seabirds?. PLoS ONE, 2015, 10, e0136773.	2.5	68
17	A Bayesianâ€Based System to Assess Waveâ€Driven Flooding Hazards on Coral Reefâ€Lined Coasts. Journal of Geophysical Research: Oceans, 2017, 122, 10099-10117.	2.6	68
18	Vulnerability of Coral Reefs to Bioerosion From Landâ€Based Sources of Pollution. Journal of Geophysical Research: Oceans, 2017, 122, 9319-9331.	2.6	66

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19	Quantity, composition, and source of sediment collected in sediment traps along the fringing coral reef off Molokai, Hawaii. Marine Pollution Bulletin, 2006, 52, 1034-1047.	5.0	55
20	Mechanisms of Waveâ€Driven Water Level Variability on Reefâ€Fringed Coastlines. Journal of Geophysical Research: Oceans, 2018, 123, 3811-3831.	2.6	55
21	The influence of sea level rise and changes in fringing reef morphology on gradients in alongshore sediment transport. Geophysical Research Letters, 2013, 40, 3096-3101.	4.0	52
22	The relative contribution of processes driving variability in flow, shear, and turbidity over a fringing coral reef: West Maui, Hawaii. Estuarine, Coastal and Shelf Science, 2008, 77, 549-564.	2.1	48
23	Changes to extreme wave climates of islands within the Western Tropical Pacific throughout the 21st century under RCP 4.5 and RCP 8.5, with implications for island vulnerability and sustainability. Global and Planetary Change, 2016, 141, 25-38.	3.5	47
24	Terrigenous sediment impact on coral recruitment and growth affects the use of coral habitat by recruit parrotfishes (F. Scaridae). Journal of Coastal Conservation, 2013, 17, 417-429.	1.6	44
25	Diurnal variability in turbidity and coral fluorescence on a fringing reef flat: Southern Molokai, Hawaii. Estuarine, Coastal and Shelf Science, 2008, 77, 56-64.	2.1	42
26	The value of US coral reefs for flood risk reduction. Nature Sustainability, 2021, 4, 688-698.	23.7	41
27	Holocene Reef Accretion: Southwest Molokai, Hawaii, U.S.A Journal of Sedimentary Research, 2004, 74, 255-269.	1.6	39
28	Identification and classification of very low frequency waves on a coral reef flat. Journal of Geophysical Research: Oceans, 2016, 121, 7560-7574.	2.6	38
29	Sediment transport in the presence of large reef bottom roughness. Journal of Geophysical Research: Oceans, 2017, 122, 1347-1368.	2.6	38
30	Hydrodynamics of a bathymetrically complex fringing coral reef embayment: Wave climate, in situ observations, and wave prediction. Journal of Geophysical Research, 2011, 116, .	3.3	37
31	Hydrodynamics of spur and groove formations on a coral reef. Journal of Geophysical Research: Oceans, 2013, 118, 3059-3073.	2.6	36
32	Long-term, high-frequency current and temperature measurements along central California: insights into upwelling/relaxation and internal waves on the inner shelf. Continental Shelf Research, 2003, 23, 901-918.	1.8	35
33	SedPods: a low-cost coral proxy for measuring net sedimentation. Coral Reefs, 2013, 32, 155-159.	2.2	35
34	Suspended particulate layers and internal waves over the southern Monterey Bay continental shelf: An important control on shelf mud belts?. Journal of Geophysical Research: Oceans, 2014, 119, 428-444.	2.6	35
35	Drivers of circulation in a fringing coral reef embayment: A wave-flow coupled numerical modeling study of Hanalei Bay, Hawaii. Continental Shelf Research, 2013, 58, 79-95.	1.8	34
36	Cross-shore velocity shear, eddies and heterogeneity in water column properties over fringing coral reefs: West Maui, Hawaii. Continental Shelf Research, 2006, 26, 401-421.	1.8	32

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37	The Risk Reduction Benefits of the Mesoamerican Reef in Mexico. Frontiers in Earth Science, 2019, 7, .	1.8	32
38	Wave-driven sediment mobilization on a storm-controlled continental shelf (Northwest Iberia). Journal of Marine Systems, 2014, 139, 362-372.	2.1	27
39	HyCReWW: A Hybrid Coral Reef Wave and Water level metamodel. Computers and Geosciences, 2019, 127, 85-90.	4.2	27
40	Internal tides can provide thermal refugia that will buffer some coral reefs from future global warming. Scientific Reports, 2020, 10, 13435.	3.3	26
41	Local wind forcing of the Monterey Bay area inner shelf. Continental Shelf Research, 2005, 25, 397-417.	1.8	25
42	Meeting Reproductive Demands in a Dynamic Upwelling System: Foraging Strategies of a Pursuit-Diving Seabird, the Marbled Murrelet. Condor, 2009, 111, 120-134.	1.6	25
43	Distribution and abundance of rippled scour depressions along the California coast. Continental Shelf Research, 2013, 69, 88-100.	1.8	25
44	A Geochemical and Geophysical Assessment of Coastal Groundwater Discharge at Select Sites in Maui and O'ahu, Hawai'i. Coastal Research Library, 2013, , 27-46.	0.4	24
45	Environmental controls on spatial patterns in the longâ€ŧerm persistence of giant kelp in central California. Ecological Monographs, 2016, 86, 45-60.	5.4	24
46	Projected atoll shoreline and run-up changes in response to sea-level rise and varying large wave conditions at Wake and Midway Atolls, Northwestern Hawaiian Islands. Geomorphology, 2017, 295, 537-550.	2.6	24
47	Assessing Morphologic Controls on Atoll Island Alongshore Sediment Transport Gradients Due to Future Sea-Level Rise. Frontiers in Marine Science, 2019, 6, .	2.5	24
48	The importance of explicitly modelling sea-swell waves for runup on reef-lined coasts. Coastal Engineering, 2020, 160, 103704.	4.0	24
49	The influence of El Niño-Southern Oscillation (ENSO) cycles on wave-driven sea-floor sediment mobility along the central California continental margin. Continental Shelf Research, 2010, 30, 1582-1599.	1.8	23
50	Modeling Fine-Scale Coral Larval Dispersal and Interisland Connectivity to Help Designate Mutually-Supporting Coral Reef Marine Protected Areas: Insights from Maui Nui, Hawaii. Frontiers in Marine Science, 0, 4, .	2.5	23
51	Response of reef corals on a fringing reef flat to elevated suspended-sediment concentrations: Molokaʻi, Hawaiʻi. PeerJ, 2014, 2, e699.	2.0	23
52	A Numerical Study of Waveâ€Driven Mean Flows and Setup Dynamics at a Coral Reef‣agoon System. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016811.	2.6	22
53	Spatial Variability of Sediment Transport Processes Over Intratidal and Subtidal Timescales Within a Fringing Coral Reef System. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1013-1034.	2.8	21
54	Historic impact of watershed change and sedimentation to reefs along west-central Guam. Coral Reefs, 2014, 33, 733-749.	2.2	20

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55	EPISODIC SUSPENDED SEDIMENT TRANSPORT AND ELEVATED POLYCYCLIC AROMATIC HYDROCARBON CONCENTRATIONS IN A SMALL, MOUNTAINOUS RIVER IN COASTAL CALIFORNIA. River Research and Applications, 2013, 29, 919-932.	1.7	19
56	Short-term variability of 7Be atmospheric deposition and watershed response in a Pacific coastal stream, Monterey Bay, California, USA. Journal of Environmental Radioactivity, 2013, 120, 94-103.	1.7	19
57	Steps to Develop Early Warning Systems and Future Scenarios of Storm Wave-Driven Flooding Along Coral Reef-Lined Coasts. Frontiers in Marine Science, 2020, 7, .	2.5	19
58	Atoll Groundwater Movement and Its Response to Climatic and Sea-Level Fluctuations. Water (Switzerland), 2017, 9, 650.	2.7	18
59	Wave Control on Reef Morphology and Coral Distribution: Molokai, Hawaii. , 2002, , 784.		15
60	The application of acoustic Doppler current profilers to measure the timing and patterns of coral larval dispersal. Coral Reefs, 2006, 25, 369-381.	2.2	15
61	Spatial and temporal variability in oceanographic and meteorologic forcing along Central California and its implications on nearshore processes. Journal of Marine Systems, 2007, 68, 457-472.	2.1	15
62	Sea Level Rise Will Drive Divergent Sediment Transport Patterns on Fore Reefs and Reef Flats, Potentially Causing Erosion on Atoll Islands. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005446.	2.8	14
63	Coral Reef Restorations Can Be Optimized to Reduce Coastal Flooding Hazards. Frontiers in Marine Science, 2021, 8, .	2.5	14
64	Sediment dynamics and the burial and exhumation of bedrock reefs along an emergent coastline as elucidated by repetitive sonar surveys: Northern Monterey Bay, CA. Marine Geology, 2011, 289, 46-59.	2.1	13
65	Sources and dispersal of land-based runoff from small Hawaiian drainages to a coral reef: Insights from geochemical signatures. Estuarine, Coastal and Shelf Science, 2017, 188, 69-80.	2.1	13
66	Meteorologic, oceanographic, and geomorphic controls on circulation and residence time in a coral reef-lined embayment: Faga'alu Bay, American Samoa. Coral Reefs, 2018, 37, 457-469.	2.2	13
67	Currents, waves and sediment transport around the headland of Pt. Dume, California. Continental Shelf Research, 2018, 171, 63-76.	1.8	13
68	Modeling Sediment Bypassing around Idealized Rocky Headlands. Journal of Marine Science and Engineering, 2019, 7, 40.	2.6	13
69	Autonomous bed-sediment imaging-systems for revealing temporal variability of grain size. Limnology and Oceanography: Methods, 2014, 12, 390-406.	2.0	12
70	Waves do not contribute to global sea-level rise. Nature Climate Change, 2019, 9, 2-2.	18.8	12
71	Tropical Cyclone Projections: Changing Climate Threats for Pacific Island Defense Installations. Weather, Climate, and Society, 2019, 11, 3-15.	1.1	12
72	Hydro-Morphological Characterization of Coral Reefs for Wave Runup Prediction. Frontiers in Marine Science, 2020, 7, .	2.5	12

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73	The Contribution of Currents, Seaâ€5well Waves, and Infragravity Waves to Suspendedâ€5ediment Transport Across a Coral Reefâ€Lagoon System. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017010.	2.6	12
74	Burial and exhumation of temperate bedrock reefs as elucidated by repetitive high-resolution sea floor sonar surveys: Spatial patterns and impacts to species' richness and diversity. Continental Shelf Research, 2013, 55, 40-51.	1.8	11
75	Variability of the internal tide on the southern Monterey Bay continental shelf and associated bottom boundary layer sediment transport. Continental Shelf Research, 2016, 120, 68-81.	1.8	11
76	Land-use change and managed aquifer recharge effects on the hydrogeochemistry of two contrasting atoll island aquifers, Roi-Namur Island, Republic of the Marshall Islands. Applied Geochemistry, 2017, 80, 58-71.	3.0	11
77	Rapid fluctuations in flow and water-column properties in Asan Bay, Guam: implications for selective resilience of coral reefs in warming seas. Coral Reefs, 2013, 32, 949-961.	2.2	10
78	Role of Future Reef Growth on Morphological Response of Coral Reef Islands to Sea‣evel Rise. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005749.	2.8	10
79	In situ Observations of Wave Transformation and Infragravity Bore Development Across Reef Flats of Varying Geomorphology. Frontiers in Marine Science, 2020, 7, .	2.5	8
80	Model Scenarios of Shoreline Change at Kaanapali Beach, Maui, Hawaii: Seasonal and Extreme Events. , 2007, , 1227.		7
81	Upwelling rebound, ephemeral secondary pycnoclines, and the creation of a nearâ€bottom wave guide over the Monterey Bay continental shelf. Geophysical Research Letters, 2014, 41, 8503-8511.	4.0	7
82	Carbonate system parameters of an algal-dominated reef along West Maui. Biogeosciences, 2018, 15, 2467-2480.	3.3	7
83	An introduction to the â€~Oceans and Society: Blue Planet' initiative. Journal of Operational Oceanography, 2019, 12, S1-S11.	1.2	7
84	Rapid observations of ocean dynamics and stratification along a steep island coast during Hurricane MarÃa. Science Advances, 2021, 7, .	10.3	7
85	Morphodynamics of a field of crescent-shaped rippled scour depressions: Northern Monterey Bay, CA. Marine Geology, 2019, 407, 44-59.	2.1	6
86	Spectral Wave-Driven Bedload Transport Across a Coral Reef Flat/Lagoon Complex. Frontiers in Marine Science, 2020, 7, .	2.5	6
87	Physicochemical Controls on Zones of Higher Coral Stress Where Black Band Disease Occurs at MÄkua Reef, Kauaâ€~i, Hawaiâ€~i. Frontiers in Marine Science, 2019, 6, .	2.5	4
88	Modelling three-dimensional flow over spur-and-groove morphology. Coral Reefs, 2020, 39, 1841-1858.	2.2	4
89	Land-based sediment sources and transport to southwest Puerto Rico coral reefs after Hurricane Maria, May 2017 to June 2018. Estuarine, Coastal and Shelf Science, 2021, 259, 107476.	2.1	4

90 Exploring Rippled Scour Depressions Offshore Huntington Beach, CA. , 2007, , .

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#	Article	IF	CITATIONS
91	Geochemical sourcing of runoff from a young volcanic watershed to an impacted coral reef in Pelekane Bay, Hawaii. Science of the Total Environment, 2019, 649, 353-363.	8.0	3
92	High-resolution observations of submarine groundwater discharge reveal the fine spatial and temporal scales of nutrient exposure on a coral reef: Faga'alu, AS. Coral Reefs, 0, , 1.	2.2	3
93	Characterizing storm-induced coastal change hazards along the United States West Coast. Scientific Data, 2022, 9, .	5.3	3
94	Wave Climate and Trends Along the Eastern Chukchi Arctic Alaska Coast. , 2011, , .		2
95	Vertical convergence of resuspended sediment and subducted phytoplankton to a persistent detached layer over the southern shelf of <scp>M</scp> onterey <scp>B</scp> ay, <scp>C</scp> alifornia. Journal of Geophysical Research: Oceans, 2015, 120, 3462-3483.	2.6	2
96	NEARSHORE DISPOSAL OF FINE-GRAINED SEDIMENT IN A HIGH-ENERGY ENVIRONMENT: SANTA CRUZ HARBOR CASE STUDY. , 2011, , .		2
97	A Numerical Study of Geomorphic and Oceanographic Controls on Wave-Driven Runup on Fringing Reefs with Shore-Normal Channels. Journal of Marine Science and Engineering, 2022, 10, 828.	2.6	2
98	Commentary: Variability in Shelf Sedimentation in Response to Fluvial Sediment Supply and Coastal Erosion Over the Past 1,000 Years in Monterey Bay, CA, United States. Frontiers in Earth Science, 2019, 7, .	1.8	1
99	Online-coupling of widely-ranged timescales to model coral reef development. Environmental Modelling and Software, 2021, 143, 105103.	4.5	1
100	Rebounds, regresses, and recovery: A 15-year study of the coral reef community at Pilaâ€~a, Kauaâ€~i after decades of natural and anthropogenic stress events. Marine Pollution Bulletin, 2021, 171, 112306.	5.0	1
101	THE INFLUENCE OF SEA LEVEL RISE ON FRINGING REEF SEDIMENT DYNAMICS: FIELD OBSERVATIONS AND NUMERICAL MODELING. , 2011, , .		0
102	MECHANICS OF SEDIMENT SUSPENSION AND TRANSPORT WITHIN A FRINGING REEF. , 2015, , .		0
103	Influence of Harbor Construction on Downcoast Morphological Evolution: Santa Barbara, California. , 2008, , .		Ο