Paul S Kench

List of Publications by Year
in descending order

101 papers	4,973 citations	71061 41 h-index	98753 67 g-index
107 all docs	107 docs citations	107 times ranked	3092 citing authors

#	Article	IF	Citations
1	Sustained coral reef growth in the critical wave dissipation zone of a Maldivian atoll. Communications Earth & Environment, 2022, 3, .	2.6	18
2	Heightened storm activity drives late Holocene reef island formation in the central Pacific Ocean. Global and Planetary Change, 2022, 215, 103888.	1.6	6
3	Shoreline changes in coral reef islands of the Federated States of Micronesia since the mid-20th century. Geomorphology, 2021, 377, 107584.	1.1	12
4	Sediment supply dampens the erosive effects of sea-level rise on reef islands. Scientific Reports, 2021, 11, 5523.	1.6	20
5	Porites Calcifying Fluid pH on Seasonal to Diurnal Scales. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016889.	1.0	5
6	Reply to: Climate did not drive Common Era Maldivian sea-level lowstands. Nature Geoscience, 2021, 14, 276-277.	5.4	0
7	Fossil Reefs Reveal Temporally Distinct Late Holocene Lagoonal Reef Shutdown Episodes at Kiritimati Island, Central Pacific. Geophysical Research Letters, 2021, 48, e2020GL092113.	1.5	1
8	Multi-decadal planform changes on coral reef islands from atolls and mid-ocean reef platforms of the equatorial Pacific Ocean: Gilbert Islands, Republic of Kiribati. Geomorphology, 2021, 389, 107831.	1.1	12
9	Preservation and Destruction of Holocene Marine Terraces: The Effects of Episodic Versus Gradual Relative Sea Level Change. Geophysical Research Letters, 2021, 48, e2021GL094543.	1.5	7
10	Coral Systems. , 2021, , .		0
11	Climate-forced sea-level lowstands in the Indian Ocean during the last two millennia. Nature Geoscience, 2020, 13, 61-64.	5.4	21
12	Active Sediment Generation on Coral Reef Flats Contributes to Recent Reef Island Expansion. Geophysical Research Letters, 2020, 47, e2020GL088752.	1.5	12
13	Holocene sea level dynamics drive formation of a large atoll island in the central Indian Ocean. Global and Planetary Change, 2020, 195, 103354.	1.6	16
14	Coral reef islands can accrete vertically in response to sea level rise. Science Advances, 2020, 6, eaay3656.	4.7	51
15	Modelling reef hydrodynamics and sediment mobility under sea level rise in atoll reef island systems. Global and Planetary Change, 2020, 192, 103196.	1.6	19
16	Balancing Sustainable Coastal Management with Development in New Zealand. Strategies for Sustainability, 2020, , 97-118.	0.2	0
17	Physical modelling of the response of reef islands to sea-level rise. Geology, 2019, 47, 803-806.	2.0	37
18	Massive corals maintain a positive carbonate budget of a Maldivian upper reef platform despite major bleaching event. Scientific Reports, 2019, 9, 6515.	1.6	19

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19	Modelling gravel barrier response to storms and sudden relative sea-level change using XBeach-G. Marine Geology, 2019, 410, 164-175.	0.9	17
20	Physical and Numerical Modeling of Infragravity Wave Generation and Transformation on Coral Reef Platforms. Journal of Geophysical Research: Oceans, 2019, 124, 1410-1433.	1.0	28
21	Adaptation to sea level rise on low coral islands: Lessons from recent events. Ocean and Coastal Management, 2019, 168, 35-40.	2.0	35
22	EXPLORING REEF ISLAND MORPHODYNAMICS: A PHYSICAL MODELLING METHODOLOGY. , 2019, , .		1
23	GEOPHYSICAL VISUALIZATION OF REEF ISLAND ACCRETION AND STRATIGRAPHIC ARCHITECTURE USING GROUND PENETRATING RADAR. , 2019, , .		0
24	Patterns of island change and persistence offer alternate adaptation pathways for atoll nations. Nature Communications, 2018, 9, 605.	5.8	99
25	Predicting wave overtopping thresholds on coral reef-island shorelines with future sea-level rise. Nature Communications, 2018, 9, 3997.	5.8	43
26	Model Skill and Sensitivity for Simulating Wave Processes on Coral Reefs Using a Shock-Capturing Green-Naghdi Solver. Journal of Coastal Research, 2018, 345, 1087-1099.	0.1	5
27	Coral Reef Island Initiation and Development Under Higher Than Present Sea Levels. Geophysical Research Letters, 2018, 45, 11,265.	1.5	24
28	Modelling the relative dominance of wave erosion and weathering processes in shore platform development in microâ€•to megaâ€‐tidal settings. Earth Surface Processes and Landforms, 2018, 43, 2642-2653.	1.2	21
29	Physical Modelling of Reef Platform Hydrodynamics. Journal of Coastal Research, 2018, 85, 491-495.	0.1	4
30	Co-creating Resilience Solutions to Coastal Hazards Through an Interdisciplinary Research Project in New Zealand. Journal of Coastal Research, 2018, 85, 1496-1500.	0.1	18
31	Loss of coral reef growth capacity to track future increases in sea level. Nature, 2018, 558, 396-400.	13.7	250
32	Water flow buffers shifts in bacterial community structure in heat-stressed Acropora muricata. Scientific Reports, 2017, 7, 43600.	1.6	19
33	Reef island dynamics and mechanisms of change in Huvadhoo Atoll, Republic of Maldives, Indian Ocean. Anthropocene, 2017, 18, 57-68.	1.6	40
34	New rates of Indian Ocean carbonate production by encrusting coral reef calcifiers: Periodic expansions following disturbance influence reef-building and recovery. Marine Geology, 2017, 390, 72-79.	0.9	7
35	Multi-decadal shoreline change and beach connectivity in a high-energy sand system. New Zealand Journal of Marine and Freshwater Research, 2017, 51, 406-426.	0.8	7
36	Future Reef Growth Can Mitigate Physical Impacts of Seaâ€‐Level Rise on Atoll Islands. Earth's Future, 2017, 5, 1002-1014.	2.4	48

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37	Reef Island Evolution and Dynamics: Insights from the Indian and Pacific Oceans and Perspectives for the Spermonde Archipelago. Frontiers in Marine Science, 2017, 4, .	1.2	43
38	Atoll-scale comparisons of the sedimentary structure of coral reef rim islands, Huvadhu Atoll, Maldives. Journal of Coastal Research, 2016, 75, 577-581.	0.1	7
39	Mucus Sugar Content Shapes the Bacterial Community Structure in Thermally Stressed Acropora muricata. Frontiers in Microbiology, 2016, 7, 371.	1.5	86
40	Reef to island sediment connections on a Maldivian carbonate platform: using benthic ecology and biosedimentary depositional facies to examine islandâ€building potential. Earth Surface Processes and Landforms, 2016, 41, 1815-1825.	1.2	25
41	Generalised observations of wave characteristics on nearâ€horizontal shore platforms: Synthesis of six case studies from the North Island, New Zealand. New Zealand Geographer, 2016, 72, 107-121.	0.4	13
42	Lagoonal reef sediment supply and island connectivity, Huvadhu Atoll, Maldives. Journal of Coastal Research, 2016, 75, 587-591.	0.1	4
43	Modelling the Development of Varied Shore Profile Geometry on Rocky Coasts. Journal of Coastal Research, 2016, 75, 597-601.	0.1	9
44	Observation of Wave Transformation on Macro-tidal Rocky Platforms. Journal of Coastal Research, 2016, 75, 602-606.	0.1	11
45	Wave transformation and shoreline water level on <scp>F</scp>unafuti <scp>A</scp>toll, <scp>T</scp>uvalu. Journal of Geophysical Research: Oceans, 2016, 121, 311-326.	1.0	52
46	An exploratory numerical model of rocky shore profile evolution. Geomorphology, 2016, 268, 98-109.	1.1	36
47	Parrotfish erosion underpins reef growth, sand talus development and island building in the Maldives. Sedimentary Geology, 2016, 341, 50-57.	1.0	49
48	Spatiotemporal variability of typhoon impacts and relaxation intervals on Jaluit Atoll, Marshall Islands. Geology, 2016, 44, 159-162.	2.0	37
49	Destruction or persistence of coral atoll islands in the face of 20th and 21st century seaâ€level rise?. Wiley Interdisciplinary Reviews: Climate Change, 2015, 6, 445-463.	3.6	119
50	Multi-decadal shoreline changes in response to sea level rise in the Marshall Islands. Anthropocene, 2015, 11, 14-24.	1.6	58
51	Conservation of low-islands: high priority despite sea-level rise. A comment on Courchamp et al.. Trends in Ecology and Evolution, 2015, 30, 1-2.	4.2	38
52	Hydrodynamic constraints and storm wave characteristics on a subâ€horizontal shore platform. Earth Surface Processes and Landforms, 2015, 40, 65-77.	1.2	30
53	Regionalâ€scale dominance of nonâ€framework building corals on Caribbean reefs affects carbonate production and future reef growth. Global Change Biology, 2015, 21, 1153-1164.	4.2	101
54	Successive shifts in the microbial community of the surface mucus layer and tissues of the coralAcropora muricataunder thermal stress. FEMS Microbiology Ecology, 2015, 91, fiv142.	1.3	70

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55	Coral Reef Systems and the Complexity of Hazards. , 2015, , 431-465.		1
56	Changing dynamics of Caribbean reef carbonate budgets: emergence of reef bioeroders as critical controls on present and future reef growth potential. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20142018.	1.2	76
57	Formation and adjustment of typhoon-impacted reef islands interpreted from remote imagery: Nadikdik Atoll, Marshall Islands. Geomorphology, 2014, 214, 216-222.	1.1	51
58	Heavy metal contamination of coastal lagoon sediments: Fongafale Islet, Funafuti Atoll, Tuvalu. Chemosphere, 2014, 95, 628-634.	4.2	95
59	Wave energy gradients and shoreline change on Vabbinfaru platform, Maldives. Geomorphology, 2014, 209, 98-110.	1.1	29
60	Developments in coral reef and reef island geomorphology. Geomorphology, 2014, 222, 1-2.	1.1	6
61	The geomorphology, development and temporal dynamics of Tepuka Island, Funafuti atoll, Tuvalu. Geomorphology, 2014, 222, 46-58.	1.1	33
62	Carbonate production rates of encruster communities on a lagoonal patch reef: Vabbinfaru reef platform, Maldives. Marine and Freshwater Research, 2014, 65, 720.	0.7	12
63	Evidence for coral island formation during rising sea level in the central Pacific Ocean. Geophysical Research Letters, 2014, 41, 820-827.	1.5	79
64	Caribbean-wide decline in carbonate production threatens coral reef growth. Nature Communications, 2013, 4, 1402.	5.8	291
65	Seaâ€cliff retreat and shore platform widening: steadyâ€state equilibrium?. Earth Surface Processes and Landforms, 2013, 38, 1046-1048.	1.2	38
66	Analytical modelling of wave refraction and convergence on coral reef platforms: Implications for island formation and stability. Geomorphology, 2012, 159-160, 84-92.	1.1	56
67	Skeletal extension and calcification of reef-building corals in the central Indian Ocean. Marine Environmental Research, 2012, 81, 78-82.	1.1	45
68	Estimating rates of biologically driven coral reef framework production and erosion: a new census-based carbonate budget methodology and applications to the reefs of Bonaire. Coral Reefs, 2012, 31, 853-868.	0.9	162
69	The durability of bioclastic sediments and implications for coral reef deposit formation. Sedimentology, 2012, 59, 830-842.	1.6	52
70	Field Measurements of Wave Characteristics on a Nearâ€Horizontal Shore Platform, Mahia Peninsula, North Island, New Zealand. Geographical Research, 2012, 50, 179-192.	0.9	34
71	Compromising Reef Island Shoreline Dynamics: Legacies of the Engineering Paradigm in the Maldives. Coastal Research Library, 2012, , 165-186.	0.2	24
72	Implications of reef ecosystem change for the stability and maintenance of coral reef islands. Global Change Biology, 2011, 17, 3679-3696.	4.2	153

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73	Longshore transport of cobbles on a mixed sand and gravel beach, southern Hawke Bay, New Zealand. Marine Geology, 2011, 287, 31-42.	0.9	30
74	Field observations of infragravity waves and their behaviour on rock shore platforms. Earth Surface Processes and Landforms, 2011, 36, 1872-1888.	1.2	50
75	Eco-Morphodynamics. Encyclopedia of Earth Sciences Series, 2011, , 359-363.	0.1	4
76	Sand cay evolution on reef platforms, Mamanuca Islands, Fiji. Marine Geology, 2010, 269, 61-73.	0.9	34
77	The dynamic response of reef islands to sea-level rise: Evidence from multi-decadal analysis of island change in the Central Pacific. Global and Planetary Change, 2010, 72, 234-246.	1.6	336
78	Coral reefs. , 2009, , 180-213.		20
79	Monsoonally influenced circulation around coral reef islands and seasonal dynamics of reef island shorelines. Marine Geology, 2009, 266, 91-108.	0.9	37
80	Seasonal variations in wave characteristics around a coral reef island, South Maalhosmadulu atoll, Maldives. Marine Geology, 2009, 262, 116-129.	0.9	43
81	Carbonate budgets and reef production states: a geomorphic perspective on the ecological phase-shift concept. Coral Reefs, 2008, 27, 853-866.	0.9	178
82	A commentary on coastal research in New Zealand universities. New Zealand Geographer, 2008, 64, 93-104.	0.4	4
83	Multiâ€decadal coastal change in New Zealand: Evidence, mechanisms and implications. New Zealand Geographer, 2008, 64, 117-128.	0.4	19
84	Sedimentology and preservation potential of carbonate sand sheets deposited by the December 2004 Indian Ocean tsunami: South Baa Atoll, Maldives. Sedimentology, 2008, 55, 1173-1187.	1.6	42
85	Geological Approaches to Coral Reef Ecology. Eos, 2008, 89, 352-352.	0.1	0
86	Tsunami as agents of geomorphic change in mid-ocean reef islands. Geomorphology, 2008, 95, 361-383.	1.1	74
87	Field observations of wave-driven water-level gradients across a coral reef flat. Journal of Geophysical Research, 2007, 112, .	3.3	46
88	Carbonate production of an emergent reef platform, Warraber Island, Torres Strait, Australia. Coral Reefs, 2007, 26, 53-68.	0.9	77
89	Wave Processes on Coral Reef Flats: Implications for Reef Geomorphology Using Australian Case Studies. Journal of Coastal Research, 2006, 221, 209-223.	0.1	172
90	Response of reef island shorelines to seasonal climate oscillations: South Maalhosmadulu atoll, Maldives. Journal of Geophysical Research, 2006, 111, .	3.3	119

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91	Wave energy gradients across a Maldivian atoll: Implications for island geomorphology. Geomorphology, 2006, 81, 1-17.	1.1	93
92	Hydrodynamics and morphological adjustment of a mixed sand and gravel beach, Torere, Bay of Plenty, New Zealand. Marine Geology, 2006, 228, 137-152.	0.9	56
93	Geological effects of tsunami on mid-ocean atoll islands: The Maldives before and after the Sumatran tsunami. Geology, 2006, 34, 177.	2.0	106
94	Comment on â€œNew perspectives for the future of the Maldivesâ€•by MÃ¶rner, N.A., et al. [Global Planet. Change 40 (2004), 177â€“182]. Global and Planetary Change, 2005, 47, 67-69.	1.6	9
95	Hydrodynamics and sediment flux of hoa in an Indian Ocean atoll. Earth Surface Processes and Landforms, 2004, 29, 933-953.	1.2	44
96	Spatial and temporal variations in wave characteristics across a reef platform, Warraber Island, Torres Strait, Australia. Marine Geology, 2004, 207, 169-184.	0.9	155
97	Geomorphology of Australian estuaries: Review and prospect. Austral Ecology, 1999, 24, 367-380.	0.7	71
98	Physical processes in an Indian Ocean atoll. Coral Reefs, 1998, 17, 155-168.	0.9	71
99	A comparison of settling and sieve techniques for the analysis of bioclastic sediments. Sedimentary Geology, 1997, 109, 111-119.	1.0	42
100	Contemporary sedimentation in the Cocos (Keeling) Islands, Indian Ocean: interpretation using settling velocity analysis. Sedimentary Geology, 1997, 114, 109-130.	1.0	34
101	Hydraulic characteristics of bioclastic deposits: new possibilities for environmental interpretation using settling velocity fractions. Sedimentology, 1996, 43, 561-570.	1.6	51