

Paul S Kench

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9537896/publications.pdf>

Version: 2024-02-01

101
papers

4,973
citations

70961

41
h-index

98622

67
g-index

107
all docs

107
docs citations

107
times ranked

3092
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamic response of reef islands to sea-level rise: Evidence from multi-decadal analysis of island change in the Central Pacific. <i>Global and Planetary Change</i> , 2010, 72, 234-246.	1.6	336
2	Caribbean-wide decline in carbonate production threatens coral reef growth. <i>Nature Communications</i> , 2013, 4, 1402.	5.8	291
3	Loss of coral reef growth capacity to track future increases in sea level. <i>Nature</i> , 2018, 558, 396-400.	13.7	250
4	Carbonate budgets and reef production states: a geomorphic perspective on the ecological phase-shift concept. <i>Coral Reefs</i> , 2008, 27, 853-866.	0.9	178
5	Wave Processes on Coral Reef Flats: Implications for Reef Geomorphology Using Australian Case Studies. <i>Journal of Coastal Research</i> , 2006, 221, 209-223.	0.1	172
6	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. <i>Coral Reefs</i> , 2012, 31, 853-868.	0.9	162
7	Spatial and temporal variations in wave characteristics across a reef platform, Warraber Island, Torres Strait, Australia. <i>Marine Geology</i> , 2004, 207, 169-184.	0.9	155
8	Implications of reef ecosystem change for the stability and maintenance of coral reef islands. <i>Global Change Biology</i> , 2011, 17, 3679-3696.	4.2	153
9	Response of reef island shorelines to seasonal climate oscillations: South Maalhosmadulu atoll, Maldives. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	119
10	Destruction or persistence of coral atoll islands in the face of 20th and 21st century sea-level rise?. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2015, 6, 445-463.	3.6	119
11	Geological effects of tsunami on mid-ocean atoll islands: The Maldives before and after the Sumatran tsunami. <i>Geology</i> , 2006, 34, 177.	2.0	106
12	Regional-scale dominance of non-framework building corals on Caribbean reefs affects carbonate production and future reef growth. <i>Global Change Biology</i> , 2015, 21, 1153-1164.	4.2	101
13	Patterns of island change and persistence offer alternate adaptation pathways for atoll nations. <i>Nature Communications</i> , 2018, 9, 605.	5.8	99
14	Heavy metal contamination of coastal lagoon sediments: Fongafale Islet, Funafuti Atoll, Tuvalu. <i>Chemosphere</i> , 2014, 95, 628-634.	4.2	95
15	Wave energy gradients across a Maldivian atoll: Implications for island geomorphology. <i>Geomorphology</i> , 2006, 81, 1-17.	1.1	93
16	Mucus Sugar Content Shapes the Bacterial Community Structure in Thermally Stressed <i>Acropora muricata</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 371.	1.5	86
17	Evidence for coral island formation during rising sea level in the central Pacific Ocean. <i>Geophysical Research Letters</i> , 2014, 41, 820-827.	1.5	79
18	Carbonate production of an emergent reef platform, Warraber Island, Torres Strait, Australia. <i>Coral Reefs</i> , 2007, 26, 53-68.	0.9	77

#	ARTICLE	IF	CITATIONS
19	Changing dynamics of Caribbean reef carbonate budgets: emergence of reef bioeroders as critical controls on present and future reef growth potential. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20142018.	1.2	76
20	Tsunami as agents of geomorphic change in mid-ocean reef islands. <i>Geomorphology</i> , 2008, 95, 361-383.	1.1	74
21	Physical processes in an Indian Ocean atoll. <i>Coral Reefs</i> , 1998, 17, 155-168.	0.9	71
22	Geomorphology of Australian estuaries: Review and prospect. <i>Austral Ecology</i> , 1999, 24, 367-380.	0.7	71
23	Successive shifts in the microbial community of the surface mucus layer and tissues of the coral <i>Acropora muricata</i> under thermal stress. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv142.	1.3	70
24	Multi-decadal shoreline changes in response to sea level rise in the Marshall Islands. <i>Anthropocene</i> , 2015, 11, 14-24.	1.6	58
25	Hydrodynamics and morphological adjustment of a mixed sand and gravel beach, Torere, Bay of Plenty, New Zealand. <i>Marine Geology</i> , 2006, 228, 137-152.	0.9	56
26	Analytical modelling of wave refraction and convergence on coral reef platforms: Implications for island formation and stability. <i>Geomorphology</i> , 2012, 159-160, 84-92.	1.1	56
27	The durability of bioclastic sediments and implications for coral reef deposit formation. <i>Sedimentology</i> , 2012, 59, 830-842.	1.6	52
28	Wave transformation and shoreline water level on <i>Funafuti Atoll</i> , <i>Tuvalu</i> . <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 311-326.	1.0	52
29	Hydraulic characteristics of bioclastic deposits: new possibilities for environmental interpretation using settling velocity fractions. <i>Sedimentology</i> , 1996, 43, 561-570.	1.6	51
30	Formation and adjustment of typhoon-impacted reef islands interpreted from remote imagery: <i>Nadikdik Atoll</i> , Marshall Islands. <i>Geomorphology</i> , 2014, 214, 216-222.	1.1	51
31	Coral reef islands can accrete vertically in response to sea level rise. <i>Science Advances</i> , 2020, 6, eaay3656.	4.7	51
32	Field observations of infragravity waves and their behaviour on rock shore platforms. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1872-1888.	1.2	50
33	Parrotfish erosion underpins reef growth, sand talus development and island building in the Maldives. <i>Sedimentary Geology</i> , 2016, 341, 50-57.	1.0	49
34	Future Reef Growth Can Mitigate Physical Impacts of Sea-Level Rise on Atoll Islands. <i>Earth's Future</i> , 2017, 5, 1002-1014.	2.4	48
35	Field observations of wave-driven water-level gradients across a coral reef flat. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	46
36	Skeletal extension and calcification of reef-building corals in the central Indian Ocean. <i>Marine Environmental Research</i> , 2012, 81, 78-82.	1.1	45

#	ARTICLE	IF	CITATIONS
37	Hydrodynamics and sediment flux of hoas in an Indian Ocean atoll. <i>Earth Surface Processes and Landforms</i> , 2004, 29, 933-953.	1.2	44
38	Seasonal variations in wave characteristics around a coral reef island, South Maalhosmadulu atoll, Maldives. <i>Marine Geology</i> , 2009, 262, 116-129.	0.9	43
39	Reef Island Evolution and Dynamics: Insights from the Indian and Pacific Oceans and Perspectives for the Spermonde Archipelago. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	43
40	Predicting wave overtopping thresholds on coral reef-island shorelines with future sea-level rise. <i>Nature Communications</i> , 2018, 9, 3997.	5.8	43
41	A comparison of settling and sieve techniques for the analysis of bioclastic sediments. <i>Sedimentary Geology</i> , 1997, 109, 111-119.	1.0	42
42	Sedimentology and preservation potential of carbonate sand sheets deposited by the December 2004 Indian Ocean tsunami: South Baa Atoll, Maldives. <i>Sedimentology</i> , 2008, 55, 1173-1187.	1.6	42
43	Reef island dynamics and mechanisms of change in Huvadhoo Atoll, Republic of Maldives, Indian Ocean. <i>Anthropocene</i> , 2017, 18, 57-68.	1.6	40
44	Sea-cliff retreat and shore platform widening: steady-state equilibrium?. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1046-1048.	1.2	38
45	Conservation of low-islands: high priority despite sea-level rise. A comment on Courchamp et al.. <i>Trends in Ecology and Evolution</i> , 2015, 30, 1-2.	4.2	38
46	Monsoonally influenced circulation around coral reef islands and seasonal dynamics of reef island shorelines. <i>Marine Geology</i> , 2009, 266, 91-108.	0.9	37
47	Spatiotemporal variability of typhoon impacts and relaxation intervals on Jaluit Atoll, Marshall Islands. <i>Geology</i> , 2016, 44, 159-162.	2.0	37
48	Physical modelling of the response of reef islands to sea-level rise. <i>Geology</i> , 2019, 47, 803-806.	2.0	37
49	An exploratory numerical model of rocky shore profile evolution. <i>Geomorphology</i> , 2016, 268, 98-109.	1.1	36
50	Adaptation to sea level rise on low coral islands: Lessons from recent events. <i>Ocean and Coastal Management</i> , 2019, 168, 35-40.	2.0	35
51	Contemporary sedimentation in the Cocos (Keeling) Islands, Indian Ocean: interpretation using settling velocity analysis. <i>Sedimentary Geology</i> , 1997, 114, 109-130.	1.0	34
52	Sand cay evolution on reef platforms, Mamanuca Islands, Fiji. <i>Marine Geology</i> , 2010, 269, 61-73.	0.9	34
53	Field Measurements of Wave Characteristics on a Near-Horizontal Shore Platform, Mahia Peninsula, North Island, New Zealand. <i>Geographical Research</i> , 2012, 50, 179-192.	0.9	34
54	The geomorphology, development and temporal dynamics of Tepuka Island, Funafuti atoll, Tuvalu. <i>Geomorphology</i> , 2014, 222, 46-58.	1.1	33

#	ARTICLE	IF	CITATIONS
55	Longshore transport of cobbles on a mixed sand and gravel beach, southern Hawke Bay, New Zealand. <i>Marine Geology</i> , 2011, 287, 31-42.	0.9	30
56	Hydrodynamic constraints and storm wave characteristics on a sub-ahorizontal shore platform. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 65-77.	1.2	30
57	Wave energy gradients and shoreline change on Vabbinfaru platform, Maldives. <i>Geomorphology</i> , 2014, 209, 98-110.	1.1	29
58	Physical and Numerical Modeling of Infragravity Wave Generation and Transformation on Coral Reef Platforms. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1410-1433.	1.0	28
59	Reef to island sediment connections on a Maldivian carbonate platform: using benthic ecology and biosedimentary depositional facies to examine island-building potential. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 1815-1825.	1.2	25
60	Coral Reef Island Initiation and Development Under Higher Than Present Sea Levels. <i>Geophysical Research Letters</i> , 2018, 45, 11,265.	1.5	24
61	Compromising Reef Island Shoreline Dynamics: Legacies of the Engineering Paradigm in the Maldives. <i>Coastal Research Library</i> , 2012, , 165-186.	0.2	24
62	Modelling the relative dominance of wave erosion and weathering processes in shore platform development in micro- to mega-tidal settings. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2642-2653.	1.2	21
63	Climate-forced sea-level lowstands in the Indian Ocean during the last two millennia. <i>Nature Geoscience</i> , 2020, 13, 61-64.	5.4	21
64	Coral reefs. , 2009, , 180-213.		20
65	Sediment supply dampens the erosive effects of sea-level rise on reef islands. <i>Scientific Reports</i> , 2021, 11, 5523.	1.6	20
66	Multi-decadal coastal change in New Zealand: Evidence, mechanisms and implications. <i>New Zealand Geographer</i> , 2008, 64, 117-128.	0.4	19
67	Water flow buffers shifts in bacterial community structure in heat-stressed <i>Acropora muricata</i> . <i>Scientific Reports</i> , 2017, 7, 43600.	1.6	19
68	Massive corals maintain a positive carbonate budget of a Maldivian upper reef platform despite major bleaching event. <i>Scientific Reports</i> , 2019, 9, 6515.	1.6	19
69	Modelling reef hydrodynamics and sediment mobility under sea level rise in atoll reef island systems. <i>Global and Planetary Change</i> , 2020, 192, 103196.	1.6	19
70	Co-creating Resilience Solutions to Coastal Hazards Through an Interdisciplinary Research Project in New Zealand. <i>Journal of Coastal Research</i> , 2018, 85, 1496-1500.	0.1	18
71	Sustained coral reef growth in the critical wave dissipation zone of a Maldivian atoll. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	18
72	Modelling gravel barrier response to storms and sudden relative sea-level change using XBeach-G. <i>Marine Geology</i> , 2019, 410, 164-175.	0.9	17

#	ARTICLE	IF	CITATIONS
73	Holocene sea level dynamics drive formation of a large atoll island in the central Indian Ocean. <i>Global and Planetary Change</i> , 2020, 195, 103354.	1.6	16
74	Generalised observations of wave characteristics on near-horizontal shore platforms: Synthesis of six case studies from the North Island, New Zealand. <i>New Zealand Geographer</i> , 2016, 72, 107-121.	0.4	13
75	Carbonate production rates of encruster communities on a lagoonal patch reef: Vabbinfaru reef platform, Maldives. <i>Marine and Freshwater Research</i> , 2014, 65, 720.	0.7	12
76	Active Sediment Generation on Coral Reef Flats Contributes to Recent Reef Island Expansion. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088752.	1.5	12
77	Shoreline changes in coral reef islands of the Federated States of Micronesia since the mid-20th century. <i>Geomorphology</i> , 2021, 377, 107584.	1.1	12
78	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. <i>Geomorphology</i> , 2021, 389, 107831.	1.1	12
79	Observation of Wave Transformation on Macro-tidal Rocky Platforms. <i>Journal of Coastal Research</i> , 2016, 75, 602-606.	0.1	11
80	Comment on "New perspectives for the future of the Maldives" by Mörner, N.A., et al. [<i>Global Planet. Change</i> 40 (2004), 177-182]. <i>Global and Planetary Change</i> , 2005, 47, 67-69.	1.6	9
81	Modelling the Development of Varied Shore Profile Geometry on Rocky Coasts. <i>Journal of Coastal Research</i> , 2016, 75, 597-601.	0.1	9
82	Atoll-scale comparisons of the sedimentary structure of coral reef rim islands, Huvadhu Atoll, Maldives. <i>Journal of Coastal Research</i> , 2016, 75, 577-581.	0.1	7
83	New rates of Indian Ocean carbonate production by encrusting coral reef calcifiers: Periodic expansions following disturbance influence reef-building and recovery. <i>Marine Geology</i> , 2017, 390, 72-79.	0.9	7
84	Multi-decadal shoreline change and beach connectivity in a high-energy sand system. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2017, 51, 406-426.	0.8	7
85	Preservation and Destruction of Holocene Marine Terraces: The Effects of Episodic Versus Gradual Relative Sea Level Change. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094543.	1.5	7
86	Developments in coral reef and reef island geomorphology. <i>Geomorphology</i> , 2014, 222, 1-2.	1.1	6
87	Heightened storm activity drives late Holocene reef island formation in the central Pacific Ocean. <i>Global and Planetary Change</i> , 2022, 215, 103888.	1.6	6
88	Model Skill and Sensitivity for Simulating Wave Processes on Coral Reefs Using a Shock-Capturing Green-Naghdi Solver. <i>Journal of Coastal Research</i> , 2018, 345, 1087-1099.	0.1	5
89	Porites Calcifying Fluid pH on Seasonal to Diurnal Scales. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016889.	1.0	5
90	A commentary on coastal research in New Zealand universities. <i>New Zealand Geographer</i> , 2008, 64, 93-104.	0.4	4

#	ARTICLE	IF	CITATIONS
91	Lagoonal reef sediment supply and island connectivity, Huvadhu Atoll, Maldives. Journal of Coastal Research, 2016, 75, 587-591.	0.1	4
92	Physical Modelling of Reef Platform Hydrodynamics. Journal of Coastal Research, 2018, 85, 491-495.	0.1	4
93	Eco-Morphodynamics. Encyclopedia of Earth Sciences Series, 2011, , 359-363.	0.1	4
94	Coral Reef Systems and the Complexity of Hazards. , 2015, , 431-465.		1
95	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
96	EXPLORING REEF ISLAND MORPHODYNAMICS: A PHYSICAL MODELLING METHODOLOGY. , 2019, , .		1
97	Geological Approaches to Coral Reef Ecology. Eos, 2008, 89, 352-352.	0.1	0
98	Reply to: Climate did not drive Common Era Maldivian sea-level lowstands. Nature Geoscience, 2021, 14, 276-277.	5.4	0
99	Coral Systems. , 2021, , .		0
100	GEOPHYSICAL VISUALIZATION OF REEF ISLAND ACCRETION AND STRATIGRAPHIC ARCHITECTURE USING GROUND PENETRATING RADAR. , 2019, , .		0
101	Balancing Sustainable Coastal Management with Development in New Zealand. Strategies for Sustainability, 2020, , 97-118.	0.2	0