Daniel Smale

List of Publications by Year
in descending order

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111 papers	13,104 citations	57719 44 h-index	24961 109 g-index
116 all docs	116 docs citations	116 times ranked	9344 citing authors

#	Article	IF	Citations
1	Consistency and Variation in the Kelp Microbiota: Patterns of Bacterial Community Structure Across Spatial Scales. Microbial Ecology, 2023, 85, 1265-1275.	1.4	8
2	Examining the production, export, and immediate fate of kelp detritus on openâ€coast subtidal reefs in the Northeast Atlantic. Limnology and Oceanography, 2022, 67, .	1.6	21
3	The influence of light and temperature on detritus degradation rates for kelp species with contrasting thermal affinities. Marine Environmental Research, 2022, 173, 105529.	1.1	7
4	Examining the influence of regionalâ€scale variability in temperature and light availability on the depth distribution of subtidal kelp forests. Limnology and Oceanography, 2022, 67, 314-328.	1.6	11
5	Heterogeneity within and among co-occurring foundation species increases biodiversity. Nature Communications, 2022, 13, 581.	5.8	21
6	Quantifying habitat provisioning at macroalgal cultivation sites. Reviews in Aquaculture, 2022, 14, 1671-1694.	4.6	13
7	Global estimates of the extent and production of macroalgal forests. Global Ecology and Biogeography, 2022, 31, 1422-1439.	2.7	75
8	Climateâ€driven substitution of foundation species causes breakdown of a facilitation cascade with potential implications for higher trophic levels. Journal of Ecology, 2022, 110, 2132-2144.	1.9	11
9	Localâ€scale climatic refugia offer sanctuary for a habitatâ€forming species during a marine heatwave. Journal of Ecology, 2021, 109, 1758-1773.	1.9	50
10	The intensity of kelp harvesting shapes the population structure of the foundation species Lessonia trabeculata along the Chilean coastline. Marine Biology, 2021, 168, 1.	0.7	16
11	Ocean warming and species range shifts affect rates of ecosystem functioning by altering consumerâ€“resource interactions. Ecology, 2021, 102, e03341.	1.5	19
12	Nonâ€native species outperform natives in coastal marine ecosystems subjected to warming and freshening events. Global Ecology and Biogeography, 2021, 30, 1698-1712.	2.7	14
13	Another Decade of Marine Climate Change Experiments: Trends, Progress and Knowledge Gaps. Frontiers in Marine Science, 2021, 8, .	1.2	14
14	Niche and neutral assembly mechanisms contribute to latitudinal diversity gradients in reef fishes. Journal of Biogeography, 2021, 48, 2683-2698.	1.4	11
15	Spatial variation in the structure of overwintering, remnant Saccorhiza polyschides sporophytes and their associated assemblages. Journal of the Marine Biological Association of the United Kingdom, 2021, 101, 639-648.	0.4	6
16	Socioeconomic impacts of marine heatwaves: Global issues and opportunities. Science, 2021, 374, eabj3593.	6.0	115
17	Impacts of ocean warming on kelp forest ecosystems. New Phytologist, 2020, 225, 1447-1454.	3.5	215
18	Intraâ€Annual Variability in Responses of a Canopy Forming Kelp to Cumulative Low Tide Heat Stress: Implications for Populations at the Trailing Range Edge. Journal of Phycology, 2020, 56, 146-158.	1.0	14

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19	Environmental factors influencing primary productivity of the forest-forming kelp Laminaria hyperborea in the northeast Atlantic. Scientific Reports, 2020, 10, 12161.	1.6	55
20	Keeping pace with marine heatwaves. Nature Reviews Earth & Environment, 2020, 1, 482-493.	12.2	175
21	Patterns and drivers of understory macroalgal assemblage structure within subtidal kelp forests. Biodiversity and Conservation, 2020, 29, 4173-4192.	1.2	15
22	Ecological performance differs between range centre and trailing edge populations of a cold-water kelp: implications for estimating net primary productivity. Marine Biology, 2020, 167, 1.	0.7	9
23	Multipleâ€scale interactions structure macroinvertebrate assemblages associated with kelp understory algae. Diversity and Distributions, 2020, 26, 1551-1565.	1.9	21
24	Drivers and impacts of the most extreme marine heatwave events. Scientific Reports, 2020, 10, 19359.	1.6	155
25	Hierarchical genetic structuring in the cool boreal kelp, Laminaria digitata: implications for conservation and management. ICES Journal of Marine Science, 2020, 77, 1906-1913.	1.2	4
26	Comparison of Two Methods for Measuring Sea Surface Temperature When Surfing. Oceans, 2020, 1, 6-26.	0.6	11
27	Can ecosystem functioning be maintained despite climateâ€driven shifts in species composition? Insights from novel marine forests. Journal of Ecology, 2019, 107, 91-104.	1.9	71
28	Photophysiological Responses of Canopy-Forming Kelp Species to Short-Term Acute Warming. Frontiers in Marine Science, 2019, 6, .	1.2	14
29	Inconspicuous impacts: Widespread marine invader causes subtle but significant changes in native macroalgal assemblages. Ecosphere, 2019, 10, e02814.	1.0	16
30	The future of Blue Carbon science. Nature Communications, 2019, 10, 3998.	5.8	406
31	Identifying niche and fitness dissimilarities in invaded marine macroalgal canopies within the context of contemporary coexistence theory. Scientific Reports, 2019, 9, 8816.	1.6	9
32	A global assessment of marine heatwaves and their drivers. Nature Communications, 2019, 10, 2624.	5.8	337
33	Spatiotemporal variability in the structure of seagrass meadows and associated macrofaunal assemblages in southwest England (UK): Using citizen science to benchmark ecological pattern. Ecology and Evolution, 2019, 9, 3958-3972.	0.8	6
34	Evidence for different thermal ecotypes in range centre and trailing edge kelp populations. Journal of Experimental Marine Biology and Ecology, 2019, 514-515, 10-17.	0.7	48
35	Marine heatwaves threaten global biodiversity and the provision of ecosystem services. Nature Climate Change, 2019, 9, 306-312.	8.1	883
36	Resistance, Extinction, and Everything in Between â€“ The Diverse Responses of Seaweeds to Marine Heatwaves. Frontiers in Marine Science, 2019, 6, .	1.2	98

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37	Projected Marine Heatwaves in the 21st Century and the Potential for Ecological Impact. Frontiers in Marine Science, 2019, 6, .	1.2	300
38	Appreciating interconnectivity between habitats is key to blue carbon management. Frontiers in Ecology and the Environment, 2018, 16, 71-73.	1.9	55
39	Environmental and ecological factors influencing the spillover of the non-native kelp, Undaria pinnatifida, from marinas into natural rocky reef communities. Biological Invasions, 2018, 20, 1049-1072.	1.2	22
40	Longer and more frequent marine heatwaves over the past century. Nature Communications, 2018, 9, 1324.	5.8	1,081
41	The importance of phenotypic plasticity and local adaptation in driving intraspecific variability in thermal niches of marine macrophytes. Ecography, 2018, 41, 1469-1484.	2.1	90
42	Cumulative stress restricts niche filling potential of habitatâ€ forming kelps in a future climate. Functional Ecology, 2018, 32, 288-299.	1.7	21
43	Between-habitat variability in the population dynamics of a global marine invader may drive management uncertainty. Marine Pollution Bulletin, 2018, 137, 488-500.	2.3	6
44	Spatial variability in the diversity and structure of faunal assemblages associated with kelp holdfasts (Laminaria hyperborea) in the northeast Atlantic. PLoS ONE, 2018, 13, e0200411.	1.1	30
45	Evaluating Operational AVHRR Sea Surface Temperature Data at the Coastline Using Benthic Temperature Loggers. Remote Sensing, 2018, 10, 925.	1.8	36
46	Seasonal variability in the population structure of a habitat-forming kelp and a conspicuous gastropod grazer: Do blue-rayed limpets (Patella pellucida) exert top-down pressure on Laminaria digitata populations?. Journal of Experimental Marine Biology and Ecology, 2018, 506, 171-181.	0.7	14
47	Removal treatments alter the recruitment dynamics of a global marine invader - Implications for management feasibility. Marine Environmental Research, 2018, 140, 322-331.	1.1	6
48	Categorizing and Naming Marine Heatwaves. Oceanography, 2018, 31, .	0.5	368
49	Biologists ignore ocean weather at their peril. Nature, 2018, 560, 299-301.	13.7	104
50	Climateâ€driven substitution of habitatâ€forming species leads to reduced biodiversity within a temperate marine community. Diversity and Distributions, 2018, 24, 1367-1380.	1.9	52
51	Carbon assimilation and transfer through kelp forests in the <scp>NE</scp> Atlantic is diminished under a warmer ocean climate. Global Change Biology, 2018, 24, 4386-4398.	4.2	96
52	The role of kelp species as biogenic habitat formers in coastal marine ecosystems. Journal of Experimental Marine Biology and Ecology, 2017, 492, 81-98.	0.7	361
53	Large scale variability in the structure of sessile invertebrate assemblages in artificial habitats reveals the importance of local-scale processes. Journal of Experimental Marine Biology and Ecology, 2017, 494, 10-19.	0.7	25
54	Marine heatwaves and optimal temperatures for microbial assemblage activity. FEMS Microbiology Ecology, 2017, 93, fiw243.	1.3	25

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55	Undaria pinnatifida: A case study to highlight challenges in marine invasion ecology and management. Ecology and Evolution, 2017, 7, 8624-8642.	0.8	84
56	The influence of native macroalgal canopies on the distribution and abundance of the non-native kelp Undaria pinnatifida in natural reef habitats. Marine Biology, 2017, 164, 1.	0.7	23
57	Variability in kelp forest structure along a latitudinal gradient in ocean temperature. Journal of Experimental Marine Biology and Ecology, 2017, 486, 255-264.	0.7	46
58	The effects of warming on the ecophysiology of two co-existing kelp species with contrasting distributions. Oecologia, 2017, 183, 531-543.	0.9	44
59	Community responses to seawater warming are conserved across diverse biological groupings and taxonomic resolutions. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170534.	1.2	18
60	Regional-scale variability in the response of benthic macroinvertebrate assemblages to a marine heatwave. Marine Ecology - Progress Series, 2017, 568, 17-30.	0.9	54
61	Climate-driven regime shift of a temperate marine ecosystem. Science, 2016, 353, 169-172.	6.0	951
62	Climate-driven shifts in species' distributions may exacerbate the impacts of storm disturbances on North-east Atlantic kelp forests. Marine and Freshwater Research, 2016, 67, 65.	0.7	46
63	A hierarchical approach to defining marine heatwaves. Progress in Oceanography, 2016, 141, 227-238.	1.5	1,081
64	The structure of biogenic habitat and epibiotic assemblages associated with the global invasive kelp Undaria pinnatifida in comparison to native macroalgae. Biological Invasions, 2016, 18, 661-676.	1.2	37
65	Linking environmental variables with regional- scale variability in ecological structure and standing stock of carbon within UK kelp forests. Marine Ecology - Progress Series, 2016, 542, 79-95.	0.9	71
66	Species traits and climate velocity explain geographic range shifts in an oceanâ€warming hotspot. Ecology Letters, 2015, 18, 944-953.	3.0	334
67	The rise of Laminaria ochroleuca in the Western English Channel (<scp>UK</scp>) and comparisons with its competitor and assemblage dominant Laminaria hyperborea. Marine Ecology, 2015, 36, 1033-1044.	0.4	73
68	Distinguishing geographical range shifts from artefacts of detectability and sampling effort. Diversity and Distributions, 2015, 21, 13-22.	1.9	52
69	Large-Scale Geographic Variation in Distribution and Abundance of Australian Deep-Water Kelp Forests. PLoS ONE, 2015, 10, e0118390.	1.1	66
70	Disentangling the impacts of heat wave magnitude, duration and timing on the structure and diversity of sessile marine assemblages. PeerJ, 2015, 3, e863.	0.9	13
71	The tropicalization of temperate marine ecosystems: climate-mediated changes in herbivory and community phase shifts. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140846.	1.2	679
72	Population structure of the purple sea urchin Heliocidaris erythrogramma along a latitudinal gradient in south-west Australia. Journal of the Marine Biological Association of the United Kingdom, 2014, 94, 1033-1040.	0.4	8

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73	The future of the northeast <scp>A</scp>tlantic benthic flora in a high <scp>CO</scp>₂ world. Ecology and Evolution, 2014, 4, 2787-2798.	0.8	176
74	Linking habitat characteristics to abundance patterns of canopy-forming macroalgae and sea urchins in southwest Australia. Marine Biology Research, 2014, 10, 682-693.	0.3	14
75	Defining and observing stages of climate-mediated range shifts in marine systems. Global Environmental Change, 2014, 26, 27-38.	3.6	207
76	Regional-scale patterns of mobile invertebrate assemblage structure on artificial habitats off Western Australia. Journal of Experimental Marine Biology and Ecology, 2014, 453, 43-53.	0.7	4
77	An extreme climatic event alters marine ecosystem structure in a global biodiversity hotspot. Nature Climate Change, 2013, 3, 78-82.	8.1	925
78	Extreme climatic event drives range contraction of a habitat-forming species. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122829.	1.2	330
79	Threats and knowledge gaps for ecosystem services provided by kelp forests: a northeast <scp>A</scp>tlantic perspective. Ecology and Evolution, 2013, 3, 4016-4038.	0.8	374
80	Multi-scale patterns of spatial variability in sessile assemblage structure do not alter predictably with development time. Marine Ecology - Progress Series, 2013, 482, 29-41.	0.9	5
81	Regional-scale benthic monitoring for ecosystem-based fisheries management (EBFM) using an autonomous underwater vehicle (AUV). ICES Journal of Marine Science, 2012, 69, 1108-1118.	1.2	54
82	The effectiveness of N₂O in depleting stratospheric ozone. Geophysical Research Letters, 2012, 39, .	1.5	46
83	Spatial variability in the structure of intertidal crab and gastropod assemblages within the Seychelles Archipelago (Indian Ocean). Journal of Sea Research, 2012, 69, 8-15.	0.6	3
84	Patterns of marine bacterioplankton biodiversity in the surface waters of the Scotia Arc, Southern Ocean. FEMS Microbiology Ecology, 2012, 80, 452-468.	1.3	53
85	Extreme spatial variability in sessile assemblage development in subtidal habitats off southwest Australia (southeast Indian Ocean). Journal of Experimental Marine Biology and Ecology, 2012, 438, 76-83.	0.7	7
86	The 2011 marine heat wave in Cockburn Sound, southwest Australia. Ocean Science, 2012, 8, 545-550.	1.3	17
87	Ecological observations associated with an anomalous warming event at the Houtman Abrolhos Islands, Western Australia. Coral Reefs, 2012, 31, 441-441.	0.9	38
88	The occurrence of a widespread marine invader, Didemnum perlucidum (Tunicata, Ascidiacea) in Western Australia. Biological Invasions, 2012, 14, 1325-1330.	1.2	17
89	A decade of climate change experiments on marine organisms: procedures, patterns and problems. Global Change Biology, 2012, 18, 1491-1498.	4.2	355
90	Short-term in situ warming influences early development of sessile assemblages. Marine Ecology - Progress Series, 2012, 453, 129-136.	0.9	13

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91	Impacts of climate change in a global hotspot for temperate marine biodiversity and ocean warming. Journal of Experimental Marine Biology and Ecology, 2011, 400, 7-16.	0.7	350
92	Subtidal macroalgal richness, diversity and turnover, at multiple spatial scales, along the southwestern Australian coastline. Estuarine, Coastal and Shelf Science, 2011, 91, 224-231.	0.9	20
93	From fronds to fish: the use of indicators for ecological monitoring in marine benthic ecosystems, with case studies from temperate Western Australia. Reviews in Fish Biology and Fisheries, 2011, 21, 311-337.	2.4	21
94	Community development on subtidal temperate reefs: the influences of wave energy and the stochastic recruitment of a dominant kelp. Marine Biology, 2011, 158, 1757-1766.	0.7	26
95	Turning on the Heat: Ecological Response to Simulated Warming in the Sea. PLoS ONE, 2011, 6, e16050.	1.1	35
96	Assemblage turnover and taxonomic sufficiency of subtidal macroalgae at multiple spatial scales. Journal of Experimental Marine Biology and Ecology, 2010, 384, 76-86.	0.7	61
97	Benthic assemblage composition on subtidal reefs along a latitudinal gradient in Western Australia. Estuarine, Coastal and Shelf Science, 2010, 86, 83-92.	0.9	35
98	Monitoring marine macroalgae: the influence of spatial scale on the usefulness of biodiversity surrogates. Diversity and Distributions, 2010, 16, 985-995.	1.9	21
99	Satellite-derived SST data as a proxy for water temperature in nearshore benthic ecology. Marine Ecology - Progress Series, 2009, 387, 27-37.	0.9	132
100	Ecological traits of benthic assemblages in shallow Antarctic waters: does ice scour disturbance select for small, mobile, secondary consumers with high dispersal potential?. Polar Biology, 2008, 31, 1225-1231.	0.5	20
101	Likely responses of the Antarctic benthos to climateâ€related changes in physical disturbance during the 21st century, based primarily on evidence from the West Antarctic Peninsula region. Ecography, 2008, 31, 289-305.	2.1	72
102	Spatial variability in the distribution of dominant shallow-water benthos at Adelaide Island, Antarctica. Journal of Experimental Marine Biology and Ecology, 2008, 357, 140-148.	0.7	10
103	Ice Scour Disturbance in Antarctic Waters. Science, 2008, 321, 371-371.	6.0	76
104	Benthic community response to iceberg scouring at an intensely disturbed shallow water site at Adelaide Island, Antarctica. Marine Ecology - Progress Series, 2008, 355, 85-94.	0.9	32
105	Marine richness and gradients at Deception Island, Antarctica. Antarctic Science, 2008, 20, 271-280.	0.5	26
106	Likely responses of the Antarctic benthos to climate-related changes in physical disturbance during the 21st century, based primarily on evidence from the West Antarctic Peninsula region. Ecography, 2008, .	2.1	0
107	Ice disturbance intensity structures benthic communities in nearshore Antarctic waters. Marine Ecology - Progress Series, 2007, 349, 89-102.	0.9	35
108	The influence of ice scour on benthic communities at three contrasting sites at Adelaide Island, Antarctica. Austral Ecology, 2007, 32, 878-888.	0.7	27

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109	Scavenging in Antarctica: Intense variation between sites and seasons in shallow benthic necrophagy. Journal of Experimental Marine Biology and Ecology, 2007, 349, 405-417.	0.7	27
110	The influence of depth, site exposure and season on the intensity of iceberg scouring in nearshore Antarctic waters. Polar Biology, 2007, 30, 769-779.	0.5	40
111	Continuous benthic community change along a depth gradient in Antarctic shallows: evidence of patchiness but not zonation. Polar Biology, 2007, 31, 189-198.	0.5	39