Piers K Dunstan

List of Publications by Year
in descending order

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62 papers	3,200 citations	147726 31 h-index	155592 55 g-index
63 all docs	63 docs citations	63 times ranked	4693 citing authors

#	Article	IF	Citations
1	Climate change cascades: Shifts in oceanography, species' ranges and subtidal marine community dynamics in eastern Tasmania. Journal of Experimental Marine Biology and Ecology, 2011, 400, 17-32.	0.7	525
2	Deep-sea diversity patterns are shaped by energy availability. Nature, 2016, 533, 393-396.	13.7	202
3	The Convention on Biological Diversity's Ecologically or Biologically Significant Areas: Origins, development, and current status. Marine Policy, 2014, 49, 137-145.	1.5	126
4	Model-based thinking for community ecology. Plant Ecology, 2015, 216, 669-682.	0.7	120
5	Systematic Conservation Planning: A Better Recipe for Managing the High Seas for Biodiversity Conservation and Sustainable Use. Conservation Letters, 2014, 7, 41-54.	2.8	110
6	Spatio-temporal variation in coral recruitment at different scales on Heron Reef, southern Great Barrier Reef. Coral Reefs, 1998, 17, 71-81.	0.9	104
7	Model based grouping of species across environmental gradients. Ecological Modelling, 2011, 222, 955-963.	1.2	95
8	Scales of habitat heterogeneity and megabenthos biodiversity on an extensive Australian continental margin (100â€“1100â€ƒm depths). Marine Ecology, 2010, 31, 222-236.	0.4	94
9	Global patterns of change and variation in sea surface temperature and chlorophyll a. Scientific Reports, 2018, 8, 14624.	1.6	88
10	A systematic approach towards the identification and protection of vulnerable marine ecosystems. Marine Policy, 2014, 49, 146-154.	1.5	84
11	To mix or not to mix: comparing the predictive performance of mixture models vs. separate species distribution models. Ecology, 2013, 94, 1913-1919.	1.5	80
12	Modelling marine protected areas: insights and hurdles. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140278.	1.8	78
13	Invasion rates increase with species richness in a marine epibenthic community by two mechanisms. Oecologia, 2004, 138, 285-292.	0.9	73
14	A practical framework for implementing and evaluating integrated management of marine activities. Ocean and Coastal Management, 2019, 177, 127-138.	2.0	73
15	Larval gregariousness and neonate establishment of the eucalypt-feeding beetle Chrysophtharta agricola (Coleoptera: Chrysomelidae: Paropsini). Oikos, 2001, 94, 358-364.	1.2	62
16	Identifying Ecologically or Biologically Significant Areas (EBSA): A systematic method and its application to seamounts in the South Pacific Ocean. Ocean and Coastal Management, 2014, 91, 65-79.	2.0	60
17	Identifying indicators and essential variables for marine ecosystems. Ecological Indicators, 2015, 57, 409-419.	2.6	60
18	Using ecologically or biologically significant marine areas (EBSAs) to implement marine spatial planning. Ocean and Coastal Management, 2016, 121, 116-127.	2.0	56

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19	Results of efforts by the Convention on Biological Diversity to describe ecologically or biologically significant marine areas. Conservation Biology, 2016, 30, 571-581.	2.4	56
20	Better integration of sectoral planning and management approaches for the interlinked ecology of the open oceans. Marine Policy, 2014, 49, 127-136.	1.5	53
21	Finite Mixture of Regression Modeling for High-Dimensional Count and Biomass Data in Ecology. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 357-375.	0.7	52
22	The Coral Sea. Advances in Marine Biology, 2013, 66, 213-290.	0.7	51
23	The Analysis of Biodiversity Using Rank Abundance Distributions. Biometrics, 2010, 66, 186-195.	0.8	50
24	Linking Capacity Development to GOOS Monitoring Networks to Achieve Sustained Ocean Observation. Frontiers in Marine Science, 2018, 5, .	1.2	49
25	Abundance and richness of key Antarctic seafloor fauna correlates with modelled food availability. Nature Ecology and Evolution, 2018, 2, 71-80.	3.4	46
26	Modelling biological regions from multiâ€species and environmental data. Environmetrics, 2013, 24, 489-499.	0.6	45
27	Reviewing the EBSA process: Improving on success. Marine Policy, 2018, 88, 75-85.	1.5	43
28	LINKING RICHNESS, COMMUNITY VARIABILITY, AND INVASION RESISTANCE WITH PATCH SIZE. Ecology, 2006, 87, 2842-2850.	1.5	37
29	Decadal-Scale Forecasting of Climate Drivers for Marine Applications. Advances in Marine Biology, 2016, 74, 1-68.	0.7	34
30	How far can marine species go? Influence of population biology and larval movement on future range limits. Marine Ecology - Progress Series, 2007, 344, 15-28.	0.9	34
31	Integrating modelling of biodiversity composition and ecosystem function. Oikos, 2016, 125, 10-19.	1.2	32
32	Mechanisms of invasions: can the recipient community influence invasion rates?. Botanica Marina, 2007, 50, 361-372.	0.6	30
33	Characterising and Predicting Benthic Biodiversity for Conservation Planning in Deepwater Environments. PLoS ONE, 2012, 7, e36558.	1.1	28
34	Predicting global dynamics from local interactions: individual-based models predict complex features of marine epibenthic communities. Ecological Modelling, 2005, 186, 221-233.	1.2	26
35	Management of an invasive marine species: defining and testing the effectiveness of ballast-water management options using management strategy evaluation. ICES Journal of Marine Science, 2008, 65, 841-850.	1.2	25
36	Taxonomic Resolution, Functional Traits, and the Influence of Species Groupings on Mapping Antarctic Seafloor Biodiversity. Frontiers in Ecology and Evolution, 2018, 6, .	1.1	25

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37	Identifying hotspots for biodiversity management using rank abundance distributions. Diversity and Distributions, 2012, 18, 22-32.	1.9	24
38	The Global Ocean Biodiversity Initiative: Promoting scientific support for global ocean governance. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 162-169.	0.9	22
39	Twenty Years of High-Resolution Sea Surface Temperature Imagery around Australia: Inter-Annual and Annual Variability. PLoS ONE, 2014, 9, e100762.	1.1	22
40	Fathom out: biogeographical subdivision across the Western Australian continental margin â€“ a multispecies modelling approach. Diversity and Distributions, 2013, 19, 1506-1517.	1.9	21
41	The cumulative effect of trawl fishing on a multispecies fish assemblage in southâ€eastern Australia. Journal of Applied Ecology, 2015, 52, 129-139.	1.9	21
42	Determining marine bioregions: A comparison of quantitative approaches. Methods in Ecology and Evolution, 2020, 11, 1258-1272.	2.2	20
43	â€˜Walking along with developmentâ€™: Climate resilient pathways for political resource curses. Environmental Science and Policy, 2022, 128, 228-241.	2.4	20
44	RAD biodiversity: prediction of rank abundance distributions from deep water benthic assemblages. Ecography, 2011, 34, 798-806.	2.1	19
45	Ocean governance in the South Pacific region: Progress and plans for action. Marine Policy, 2017, 79, 40-45.	1.5	19
46	Testing the presence of marine protected areas against their ability to reduce pressures on biodiversity. Conservation Biology, 2020, 34, 622-631.	2.4	19
47	How can climate predictions improve sustainability of coastal fisheries in Pacific Small-Island Developing States?. Marine Policy, 2018, 88, 295-302.	1.5	18
48	Characterising uncertainty in generalised dissimilarity models. Methods in Ecology and Evolution, 2017, 8, 985-995.	2.2	17
49	Bioregions in Marine Environments: Combining Biological and Environmental Data for Management and Scientific Understanding. BioScience, 2020, 70, 48-59.	2.2	16
50	An info-gap approach to power and sample size calculations. Environmetrics, 2007, 18, 189-203.	0.6	15
51	Do communities exist? Complex patterns of overlapping marine species distributions. Ecology, 2014, 95, 2016-2025.	1.5	15
52	The Salas y GÃ³mez and Nazca ridges: A review of the importance, opportunities and challenges for protecting a global diversity hotspot on the high seas. Marine Policy, 2021, 126, 104377.	1.5	15
53	Stop ignoring map uncertainty in biodiversity science and conservation policy. Nature Ecology and Evolution, 2022, 6, 828-829.	3.4	15
54	Tropical Marginal Seas: Priority Regions for Managing Marine Biodiversity and Ecosystem Function. Annual Review of Marine Science, 2014, 6, 415-437.	5.1	14

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55	Competition coefficients in a marine epibenthic assemblage depend on spatial structure. Oikos, 2003, 100, 79-88.	1.2	11
56	Uniting marine and terrestrial modelling of biodiversity under climate change. Trends in Ecology and Evolution, 2010, 25, 550-551.	4.2	11
57	Comparing largeâ€scale bioregions and fineâ€scale communityâ€level biodiversity predictions from subtidal rocky reefs across southâ€eastern Australia. Journal of Applied Ecology, 2012, 49, 851-860.	1.9	8
58	The disjuncture between regional ocean priorities and development assistance in the South Pacific. Marine Policy, 2019, 107, 103420.	1.5	8
59	Mapping Antarctic Suspension Feeder Abundances and Seafloor Food-Availability, and Modeling Their Change After a Major Glacier Calving. Frontiers in Ecology and Evolution, 2018, 6, .	1.1	7
60	Mapping threats to species: Method matters. Marine Policy, 2021, 131, 104614.	1.5	6
61	Integrated assessment of the spatial distribution and structural dynamics of deep benthic marine communities. Ecological Applications, 2020, 30, e02065.	1.8	5
62	Vulnerable, but Still Poorly Known, Marine Ecosystems: How to Make Distribution Models More Relevant and Impactful for Conservation and Management of VMEs?. Frontiers in Marine Science, 0, 9, .	1.2	4