Maria Beger

List of Publications by Citations

103 papers	5,358 citations	34 h-index	72 g-index
120 ext. papers	7,011 ext. citations	6.9 avg, IF	5.31 L-index

#	Paper	IF	Citations
103	Global warming and recurrent mass bleaching of corals. *Nature*, **2017**, 543, 373-377	50.4	1539
102	Bright spots among the world's coral reefs. *Nature*, **2016**, 535, 416-9	50.4	275
101	Global human footprint on the linkage between biodiversity and ecosystem functioning in reef fishes. *PLoS Biology*, **2011**, 9, e1000606	9.7	204
100	Conservation planning for connectivity across marine, freshwater, and terrestrial realms. *Biological Conservation*, **2010**, 143, 565-575	6.2	181
99	Achieving the triple bottom line in the face of inherent trade-offs among social equity, economic return, and conservation. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6229-34	11.5	173
98	Prioritizing key resilience indicators to support coral reef management in a changing climate. *PLoS ONE*, **2012**, 7, e42884	3.7	160
97	Why do we map threats? Linking threat mapping with actions to make better conservation decisions. *Frontiers in Ecology and the Environment*, **2015**, 13, 91-99	5.5	133
96	Gravity of human impacts mediates coral reef conservation gains. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E6116-E6125	11.5	108
95	Revisiting 'Success' and 'Failure' of Marine Protected Areas: A Conservation Scientist Perspective. *Frontiers in Marine Science*, **2018**, 5,	4.5	103
94	Incorporating asymmetric connectivity into spatial decision making for conservation. *Conservation Letters*, **2010**, 3, 359-368	6.9	102
93	Shortfalls in the global protected area network at representing marine biodiversity. *Scientific Reports*, **2015**, 5, 17539	4.9	99
92	How the DPSIR framework can be used for structuring problems and facilitating empirical research in coastal systems. *Environmental Science and Policy*, **2016**, 56, 110-119	6.2	95
91	Conserving potential coral reef refuges at high latitudes. *Diversity and Distributions*, **2014**, 20, 245-257	5	95
90	Social-environmental drivers inform strategic management of coral reefs in the Anthropocene. *Nature Ecology and Evolution*, **2019**, 3, 1341-1350	12.3	85
89	Trait-mediated environmental filtering drives assembly at biogeographic transition zones. *Ecology*, **2014**, 95, 1000-9	4.6	83
88	Risk-sensitive planning for conserving coral reefs under rapid climate change. *Conservation Letters*, **2018**, 11, e12587	6.9	83
87	Integrating regional conservation priorities for multiple objectives into national policy. *Nature Communications*, **2015**, 6, 8208	17.4	80

86	Integrating research using animal-borne telemetry with the needs of conservation management. *Journal of Applied Ecology*, **2017**, 54, 423-429	5.8	80
85	Conservation of coral reef biodiversity: a comparison of reserve selection procedures for corals and fishes. *Biological Conservation*, **2003**, 111, 53-62	6.2	77
84	A quantification of the standing stock of macro-debris in Majuro lagoon and its effect on hard coral communities. *Marine Pollution Bulletin*, **2011**, 62, 1693-701	6.7	70
83	A new framework for selecting environmental surrogates. *Science of the Total Environment*, **2015**, 538, 1029-38	10.2	67
82	Dispersal connectivity and reserve selection for marine conservation. *Ecological Modelling*, **2011**, 222, 1272-1282	3	67
81	A theory for optimal monitoring of marine reserves. *Ecology Letters*, **2005**, 8, 829-837	10	65
80	Prioritizing land and sea conservation investments to protect coral reefs. *PLoS ONE*, **2010**, 5, e12431	3.7	65
79	Integrating climate adaptation and biodiversity conservation in the global ocean. *Science Advances*, **2019**, 5, eaay9969	14.3	65
78	Two roles for ecological surrogacy: Indicator surrogates and management surrogates. *Ecological Indicators*, **2016**, 63, 121-125	5.8	58
77	Evolving coral reef conservation with genetic information. *Bulletin of Marine Science*, **2014**, 90, 159-185	1.3	57
76	The application of genetics to marine management and conservation: examples from the Indo-Pacific. *Bulletin of Marine Science*, **2014**, 90, 123-158	1.3	56
75	Spatio-temporal marine conservation planning to support high-latitude coral range expansion under climate change. *Diversity and Distributions*, **2014**, 20, 859-871	5	46
74	Environmental factors that influence the distribution of coral reef fishes: modeling occurrence data for broad-scale conservation and management. *Marine Ecology - Progress Series*, **2008**, 361, 1-13	2.6	45
73	Meeting fisheries, ecosystem function, and biodiversity goals in a human-dominated world. *Science*, **2020**, 368, 307-311	33.3	45
72	Enigmatic declines of Australia sea snakes from a biodiversity hotspot. *Biological Conservation*, **2013**, 166, 191-202	6.2	42
71	A framework of lessons learned from community-based marine reserves and its effectiveness in guiding a new coastal management initiative in the Philippines. *Environmental Management*, **2004**, 34, 786-801	3.1	41
70	Critical research needs for managing coral reef marine protected areas: perspectives of academics and managers. *Journal of Environmental Management*, **2013**, 114, 84-91	7.9	40
69	Bikini Atoll coral biodiversity resilience five decades after nuclear testing. *Marine Pollution Bulletin*, **2008**, 56, 503-15	6.7	33

68	Designing connected marine reserves in the face of global warming. *Global Change Biology*, **2018**, 24, e671-e691	11.4	31
67	Effectiveness of surrogate taxa in the design of coral reef reserve systems in the Indo-Pacific. *Conservation Biology*, **2007**, 21, 1584-93	6	30
66	Multispecies genetic objectives in spatial conservation planning. *Conservation Biology*, **2017**, 31, 872-882	6	29
65	Operationalizing ecological connectivity in spatial conservation planning with Marxan Connect. *Methods in Ecology and Evolution*, **2020**, 11, 570-579	7.7	29
64	Refugia under threat: Mass bleaching of coral assemblages in high-latitude eastern Australia. *Global Change Biology*, **2019**, 25, 3918-3931	11.4	29
63	The value of migration information for conservation prioritization of sea turtles in the Mediterranean. *Global Ecology and Biogeography*, **2016**, 25, 540-552	6.1	29
62	Integrated planning for land–sea ecosystem connectivity to protect coral reefs. *Biological Conservation*, **2013**, 165, 35-42	6.2	27
61	Differential response to abiotic stress controls species distributions at biogeographic transition zones. *Ecography*, **2018**, 41, 478-490	6.5	24
60	Methods for calculating Protection Equality for conservation planning. *PLoS ONE*, **2017**, 12, e0171591	3.7	24
59	The molecular biogeography of the Indo-Pacific: Testing hypotheses with multispecies genetic patterns. *Global Ecology and Biogeography*, **2019**, 28, 943-960	6.1	23
58	Gradients of disturbance and environmental conditions shape coral community structure for south-eastern Indian Ocean reefs. *Diversity and Distributions*, **2018**, 24, 605-620	5	23
57	From Marxan to management: ocean zoning with stakeholders for Tun Mustapha Park in Sabah, Malaysia. *Oryx*, **2018**, 52, 775-786	1.5	22
56	Fisheries and biodiversity benefits of using static versus dynamic models for designing marine reserve networks. *Ecosphere*, **2015**, 6, art182	3.1	22
55	Towards a Comparative Framework of Demographic Resilience. *Trends in Ecology and Evolution*, **2020**, 35, 776-786	10.9	21
54	A Citizen Science Approach: A Detailed Ecological Assessment of Subtropical Reefs at Point Lookout, Australia. *PLoS ONE*, **2016**, 11, e0163407	3.7	21
53	Evaluating the potential for transboundary management of marine biodiversity in the Western Indian Ocean. *Australasian Journal of Environmental Management*, **2018**, 25, 62-85	2	18
52	Movement, distribution and marine reserve use by an endangered migratory giant. *Diversity and Distributions*, **2017**, 23, 1268-1279	5	18
51	Simple rules can guide whether land- or ocean-based conservation will best benefit marine ecosystems. *PLoS Biology*, **2017**, 15, e2001886	9.7	18

50	The Effect of Applying Alternate IPCC Climate Scenarios to Marine Reserve Design for Range Changing Species. *Conservation Letters*, **2015**, 8, 320-328	6.9	17
49	Research challenges to improve the management and conservation of subtropical reefs to tackle climate change threats. *Ecological Management and Restoration*, **2011**, 12, e7-e10	1.4	17
48	Incorporating conservation zone effectiveness for protecting biodiversity in marine planning. *PLoS ONE*, **2013**, 8, e78986	3.7	16
47	Opportunistic management of estuaries under climate change: A new adaptive decision-making framework and its practical application. *Journal of Environmental Management*, **2015**, 163, 214-23	7.9	14
46	Using the DPSIR framework for transdisciplinary training and knowledge elicitation in the Gulf of Thailand. *Ocean and Coastal Management*, **2016**, 134, 163-172	3.9	14
45	Importance of species translocations under rapid climate change. *Conservation Biology*, **2021**, 35, 775-788		13
44	The effect of contrasting threat mitigation objectives on spatial conservation priorities. *Marine Policy*, **2016**, 68, 23-29	3.5	12
43	Modelling and mapping regional-scale patterns of fishing impact and fish stocks to support coral-reef management in Micronesia. *Diversity and Distributions*, **2018**, 24, 1729-1743	5	12
42	Reimaanlok: A National Framework for Conservation Area Planning in the Marshall Islands. *Journal of Marine Biology*, **2011**, 2011, 1-11	1	12
41	Local and regional controls of phylogenetic structure at the high-latitude range limits of corals. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	10
40	Habitat partitioning and vulnerability of sharks in the Great Barrier Reef Marine Park. *Reviews in Fish Biology and Fisheries*, **2014**, 24, 169-197	6	10
39	The application of object based analysis of high spatial resolution imagery for mapping large coral reef systems in the West Pacific at geomorphic and benthic community spatial scales **2010**,		10
38	Longevity, body dimension and reproductive mode drive differences in aquatic versus terrestrial life-history strategies. *Functional Ecology*, **2020**, 34, 1613-1625	5.6	10
37	Open access solutions for biodiversity journals: Do not replace one problem with another. *Diversity and Distributions*, **2019**, 25, 5-8	5	10
36	The relationship between macroalgae taxa and human disturbance on central Pacific coral reefs. *Marine Pollution Bulletin*, **2019**, 145, 161-173	6.7	9
35	Informing marine spatial planning decisions with environmental DNA. *Advances in Ecological Research*, **2020**, 62, 375-407	4.6	9
34	Strategies in scheduling marine protected area establishment in a network system. *Ecological Applications*, **2019**, 29, e01820	4.9	9
33	The projected degradation of subtropical coral assemblages by recurrent thermal stress. *Journal of Animal Ecology*, **2021**, 90, 233-247	4.7	9

32	A comparison of genetic and genomic approaches to represent evolutionary potential in conservation planning. *Biological Conservation*, **2020**, 251, 108770	6.2	7
31	Subsistence harvesting by a small community does not substantially compromise coral reef fish assemblages. *ICES Journal of Marine Science*, **2017**, 74, 2191-2200	2.7	6
30	Ocean zoning within a sparing versus sharing framework. *Theoretical Ecology*, **2018**, 11, 245-254	1.6	6
29	Future loss of local-scale thermal refugia in coral reef ecosystems **2022**, 1, e0000004		6
28	Incorporating feasibility and collaboration into large-scale planning for regional recovery of coral reef fisheries. *Marine Ecology - Progress Series*, **2018**, 604, 211-222	2.6	6
27	Operationalizing ecological connectivity in spatial conservation planning with Marxan Connect		6
26	Population trends of remote invertebrate resources in a marine reserve: trochus and holothurians at Ashmore Reef.. *Pacific Conservation Biology*, **2011**, 17, 132	1.2	5
25	Regional Conservation Status of Scleractinian Coral Biodiversity in the Republic of the Marshall Islands. *Diversity*, **2013**, 5, 522-540	2.5	4
24	Thinking outside the reef. *Science*, **2008**, 319, 1759	33.3	4
23	Multi-model seascape genomics identifies distinct environmental drivers of selection among sympatric marine species. *BMC Evolutionary Biology*, **2020**, 20, 121	3	4
22	Using resilience assessments to inform the management and conservation of coral reef ecosystems. *Journal of Environmental Management*, **2021**, 277, 111384	7.9	4
21	Functional diversity of reef molluscs along a tropical-to-temperate gradient. *Coral Reefs*, **2020**, 39, 1361-1376	4.2	3
20	Evaluating the impact of accounting for coral cover in large-scale marine conservation prioritizations. *Diversity and Distributions*, **2019**, 25, 1564-1574	5	3
19	National-scale marine bioregions for the Southwest Pacific. *Marine Pollution Bulletin*, **2020**, 150, 110710	6.7	3
18	Accepting the loss of habitat specialists in a changing world. *Nature Ecology and Evolution*, **2021**, 5, 556-557	15.3	3
17	Linking population size structure, heat stress and bleaching responses in a subtropical endemic coral. *Coral Reefs*, **2021**, 40, 777-790	4.2	2
16	Transient demographic approaches can drastically expand the toolbox of coral reef science		2
15	Transient amplification enhances the persistence of tropicalising coral populations in marginal high latitude environments		2

14	Coral conservation requires ecological climate-change vulnerability assessments. *Frontiers in Ecology and the Environment*, **2021**, 19, 243-250	5.5	2
13	A theory for ecological survey methods to map individual distributions. *Theoretical Ecology*, **2018**, 11, 213-223	1.6	2
12	Spatially explicit approach to estimation of total population abundance in field surveys. *Journal of Theoretical Biology*, **2018**, 453, 88-95	2.3	2
11	Spatially explicit approach to population abundance estimation in field surveys		1
10	Distinct interspecific and intraspecific vulnerability of coastal species to global change. *Global Change Biology*, **2021**, 27, 3415-3431	11.4	1
9	The benefits of heterogeneity in spatial prioritisation within coral reef environments. *Biological Conservation*, **2021**, 258, 109155	6.2	1
8	Neither historical climate nor contemporary range fully explain the extant patterns of molecular diversity in marine species. *Journal of Biogeography*, **2021**, 48, 2629-2644	4.1	1
7	Estimating benthic trophic levels to assess the effectiveness of marine protected area management. *Science of the Total Environment*, **2021**, 790, 148234	10.2	1
6	Coral assemblages at higher latitudes favour short-term potential over long-term performance		1
5	The role of herbivores in shaping subtropical coral communities in warming oceans. *Marine Biology*, **2022**, 169, 1	2.5	1
4	Large scale study of benthic communities in Eastern Indonesian reef systems. *Regional Studies in Marine Science*, **2021**, 44, 101731	1.5	0
3	A community and functional comparison of coral and reef fish assemblages between four decades of coastal urbanisation and thermal stress.. *Ecology and Evolution*, **2022**, 12, e8736	2.8	0
2	SizeExtractR: A workflow for rapid reproducible extraction of object size metrics from scaled images.. *Ecology and Evolution*, **2022**, 12, e8724	2.8	0
1	Transient demographic approaches can drastically expand the toolbox of coral reef science. *Coral Reefs*,1	4.2	0