

# Michael W Beck

## List of Publications by Year in descending order

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Version: 2024-02-01

86  
papers

11,420  
citations

50276

46  
h-index

58581

82  
g-index

88  
all docs

88  
docs citations

88  
times ranked

11381  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Identification, Conservation, and Management of Estuarine and Marine Nurseries for Fish and Invertebrates. <i>BioScience</i> , 2001, 51, 633.	4.9	1,934
2	Oyster Reefs at Risk and Recommendations for Conservation, Restoration, and Management. <i>BioScience</i> , 2011, 61, 107-116.	4.9	978
3	The effectiveness of coral reefs for coastal hazard risk reduction and adaptation. <i>Nature Communications</i> , 2014, 5, 3794.	12.8	577
4	The Protective Role of Coastal Marshes: A Systematic Review and Meta-analysis. <i>PLoS ONE</i> , 2011, 6, e27374.	2.5	457
5	The role of ecosystems in coastal protection: Adapting to climate change and coastal hazards. <i>Ocean and Coastal Management</i> , 2014, 90, 50-57.	4.4	444
6	Guiding ecological principles for marine spatial planning. <i>Marine Policy</i> , 2010, 34, 955-966.	3.2	435
7	Planning for Biodiversity Conservation: Putting Conservation Science into Practice. <i>BioScience</i> , 2002, 52, 499.	4.9	418
8	The Effectiveness, Costs and Coastal Protection Benefits of Natural and Nature-Based Defences. <i>PLoS ONE</i> , 2016, 11, e0154735.	2.5	371
9	Understanding and Managing Human Threats to the Coastal Marine Environment. <i>Annals of the New York Academy of Sciences</i> , 2009, 1162, 39-62.	3.8	317
10	An ecological perspective on the deployment and design of low-crested and other hard coastal defence structures. <i>Coastal Engineering</i> , 2005, 52, 1073-1087.	4.0	312
11	The Gray Zone: Relationships between habitat loss and marine diversity and their applications in conservation. <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 366, 8-15.	1.5	302
12	Vulnerability and adaptation of US shellfisheries to ocean acidification. <i>Nature Climate Change</i> , 2015, 5, 207-214.	18.8	265
13	Managing for ocean biodiversity to sustain marine ecosystem services. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 204-211.	4.0	254
14	The Value of Coastal Wetlands for Flood Damage Reduction in the Northeastern USA. <i>Scientific Reports</i> , 2017, 7, 9463.	3.3	231
15	Modeling benefits from nature: using ecosystem services to inform coastal and marine spatial planning. <i>International Journal of Biodiversity Science, Ecosystem Services &amp; Management</i> , 2012, 8, 107-121.	2.9	217
16	The global flood protection savings provided by coral reefs. <i>Nature Communications</i> , 2018, 9, 2186.	12.8	204
17	The Global Flood Protection Benefits of Mangroves. <i>Scientific Reports</i> , 2020, 10, 4404.	3.3	201
18	Are coastal habitats important nurseries? A meta-analysis. <i>Conservation Letters</i> , 2019, 12, e12645.	5.7	177

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19	Coastal Ecosystems: A Critical Element of Risk Reduction. <i>Conservation Letters</i> , 2014, 7, 293-301.	5.7	157
20	Marine spatial planning in practice. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 117, 1-11.	2.1	149
21	Separating the elements of habitat structure: independent effects of habitat complexity and structural components on rocky intertidal gastropods. <i>Journal of Experimental Marine Biology and Ecology</i> , 2000, 249, 29-49.	1.5	148
22	Comparing the cost effectiveness of nature-based and coastal adaptation: A case study from the Gulf Coast of the United States. <i>PLoS ONE</i> , 2018, 13, e0192132.	2.5	138
23	Loss, Status and Trends for Coastal Marine Habitats of Europe. <i>Oceanography and Marine Biology</i> , 2007, , 345-405.	1.0	134
24	Size-Specific Shelter Limitation in Stone Crabs: A Test of The Demographic Bottleneck Hypothesis. <i>Ecology</i> , 1995, 76, 968-980.	3.2	126
25	LOCAL ADAPTATION AND AGENTS OF SELECTION IN A MOBILE INSECT. <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 810-815.	2.3	119
26	Assessing future risk: quantifying the effects of sea level rise on storm surge risk for the southern shores of Long Island, New York. <i>Natural Hazards</i> , 2012, 60, 727-745.	3.4	112
27	Comparison of the measurement and effects of habitat structure on gastropods in rocky intertidal and mangrove habitats. <i>Marine Ecology - Progress Series</i> , 1998, 169, 165-178.	1.9	107
28	Coral reefs for coastal protection: A new methodological approach and engineering case study in Grenada. <i>Journal of Environmental Management</i> , 2018, 210, 146-161.	7.8	98
29	Upgrading Marine Ecosystem Restoration Using Ecological&Social Concepts. <i>BioScience</i> , 2016, 66, 156-163.	4.9	85
30	Designing a blueprint for coral reef survival. <i>Biological Conservation</i> , 2021, 257, 109107.	4.1	82
31	Pre-copulatory guarding of penultimate females by male crab spiders, <i>Misumenoides formosipes</i> . <i>Animal Behaviour</i> , 1993, 46, 951-959.	1.9	78
32	Effects of Climate Change on Exposure to Coastal Flooding in Latin America and the Caribbean. <i>PLoS ONE</i> , 2015, 10, e0133409.	2.5	77
33	Inference and Generality in Ecology: Current Problems and an Experimental Solution. <i>Oikos</i> , 1997, 78, 265.	2.7	74
34	An attainable global vision for conservation and human well&being. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 563-570.	4.0	71
35	Emerging Solutions to Return Nature to the Urban Ocean. <i>Annual Review of Marine Science</i> , 2021, 13, 445-477.	11.6	69
36	A comparison of zoning analyses to inform the planning of a marine protected area network in Raja Ampat, Indonesia. <i>Marine Policy</i> , 2013, 38, 184-194.	3.2	65

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37	Coral Reefs and People in a High-CO2 World: Where Can Science Make a Difference to People?. PLoS ONE, 2016, 11, e0164699.	2.5	64
38	Ecoregional planning in marine environments: identifying priority sites for conservation in the northern Gulf of Mexico. Aquatic Conservation: Marine and Freshwater Ecosystems, 2001, 11, 235-242.	2.0	62
39	Local Adaptation and Agents of Selection in a Mobile Insect. Evolution; International Journal of Organic Evolution, 1995, 49, 810.	2.3	61
40	Coastal habitat squeeze: A review of adaptation solutions for saltmarsh, mangrove and beach habitats. Ocean and Coastal Management, 2019, 175, 180-190.	4.4	61
41	Challenges for Restoration of Coastal Marine Ecosystems in the Anthropocene. Frontiers in Marine Science, 2020, 7, .	2.5	60
42	Effects of bioturbation in controlling turtlegrass ( <i>Thalassia testudinum</i> Banks ex K�nig) abundance: evidence from field enclosures and observations in the Northern Gulf of Mexico. Journal of Experimental Marine Biology and Ecology, 1994, 178, 181-192.	1.5	59
43	On discerning the cause of late Pleistocene megafaunal extinctions. Paleobiology, 1996, 22, 91-103.	2.0	57
44	A TEST OF THE GENERALITY OF THE EFFECTS OF SHELTER BOTTLENECKS IN FOUR STONE CRAB POPULATIONS. Ecology, 1997, 78, 2487-2503.	3.2	55
45	Nature-based solutions: lessons from around the world. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2016, 169, 29-36.	0.2	54
46	Food web interactions along seagrass�coral reef boundaries: effects of piscivore reductions on cross-habitat energy exchange. Marine Ecology - Progress Series, 2007, 333, 37-50.	1.9	51
47	Financing coastal resilience by combining nature-based risk reduction with insurance. Ecological Economics, 2020, 169, 106487.	5.7	49
48	Valuing the protection services of mangroves at national scale: The Philippines. Ecosystem Services, 2018, 34, 24-36.	5.4	45
49	Catching the Right Wave: Evaluating Wave Energy Resources and Potential Compatibility with Existing Marine and Coastal Uses. PLoS ONE, 2012, 7, e47598.	2.5	43
50	The value of US coral reefs for flood risk reduction. Nature Sustainability, 2021, 4, 688-698.	23.7	41
51	The effects of host plant phenology on the demography and population dynamics of the leaf�mining moth, <i>Cameraria hamadryadella</i> (Lepidoptera: Gracillariidae). Ecological Entomology, 1994, 19, 111-120.	2.2	39
52	Expanding marine protected areas to include degraded coral reefs. Conservation Biology, 2016, 30, 1182-1191.	4.7	39
53	Research Priorities for Achieving Healthy Marine Ecosystems and Human Communities in a Changing Climate. Frontiers in Marine Science, 2020, 7, .	2.5	39
54	Linking fisheries management and conservation in bioengineering species: the case of South American mussels (Mytilidae). Reviews in Fish Biology and Fisheries, 2009, 19, 349-366.	4.9	38

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55	Density-Related Mortality in <i>Cameraria hamadryadella</i> (Lepidoptera: Gracillariidae) at Epidemic and Endemic Densities. <i>Oikos</i> , 1993, 66, 515.	2.7	34
56	Diversity, conservation status and threats to native oysters (Ostreidae) around the Atlantic and Caribbean coasts of South America. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2009, 19, 344-353.	2.0	34
57	Fisheries rely on threatened salt marshes. <i>Science</i> , 2020, 370, 670-671.	12.6	33
58	Factors affecting the reproductive success of the crab spider <i>Misumenoides formosipes</i> : the covariance between juvenile and adult traits. <i>Oecologia</i> , 1992, 92, 287-295.	2.0	32
59	The Risk Reduction Benefits of the Mesoamerican Reef in Mexico. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	32
60	Aligning Natural Resource Conservation and Flood Hazard Mitigation in California. <i>PLoS ONE</i> , 2015, 10, e0132651.	2.5	31
61	Ecosystem Services: Delivering Decision-Making for Salt Marshes. <i>Estuaries and Coasts</i> , 2021, 44, 1691-1698.	2.2	28
62	Natural Shorelines Promote the Stability of Fish Communities in an Urbanized Coastal System. <i>PLoS ONE</i> , 2015, 10, e0118580.	2.5	24
63	New Tools for Marine Conservation: the Leasing and Ownership of Submerged Lands. <i>Conservation Biology</i> , 2004, 18, 1214-1223.	4.7	22
64	Avoiding a crisis of motivation for ocean management under global environmental change. <i>Global Change Biology</i> , 2017, 23, 4483-4496.	9.5	21
65	Small-scale seagrass fisheries can reduce social vulnerability: a comparative case study. <i>Ocean and Coastal Management</i> , 2018, 157, 56-67.	4.4	21
66	The Loss of Natural Habitats and the Addition of Artificial Substrata. <i>Ecological Studies</i> , 2009, , 269-280.	1.2	18
67	Building Regional Threat-Based Networks for Estuaries in the Western United States. <i>PLoS ONE</i> , 2011, 6, e17407.	2.5	16
68	Species recovery and recolonization of past habitats: lessons for science and conservation from sea otters in estuaries. <i>PeerJ</i> , 2019, 7, e8100.	2.0	16
69	Identification of a spatially efficient portfolio of priority conservation sites in marine and estuarine areas of Florida. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2009, 19, 408-420.	2.0	15
70	A Waterfront View of Coastal Hazards: Contextualizing Relationships among Geographic Exposure, Shoreline Type, and Hazard Concerns among Coastal Residents. <i>Sustainability</i> , 2019, 11, 6687.	3.2	15
71	Designing effective incentives for living shorelines as a habitat conservation strategy along residential coasts. <i>Conservation Letters</i> , 2020, 13, e12744.	5.7	15
72	Return on investment for mangrove and reef flood protection. <i>Ecosystem Services</i> , 2022, 56, 101440.	5.4	13

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73	Assessing the effects of using high-quality data and high-resolution models in valuing flood protection services of mangroves. PLoS ONE, 2019, 14, e0220941.	2.5	11
74	Developing a marine conservation program in temperate Australia: determining priorities for action. Australian Journal of Maritime and Ocean Affairs, 2015, 7, 85-93.	2.0	10
75	Resistance, resilience, and recovery of salt marshes in the Florida Panhandle following Hurricane Michael. Scientific Reports, 2021, 11, 20381.	3.3	8
76	Storm risk and marine fisheries: a global assessment. Marine Policy, 2021, 132, 104698.	3.2	7
77	Decision Tools and Approaches to Advance Ecosystem-Based Disaster Risk Reduction and Climate Change Adaptation in the Twenty-First Century. Advances in Natural and Technological Hazards Research, 2016, , 133-160.	1.1	6
78	Uniendo ingenierÃa y ecologÃa: la protecciÃ³n costera basada en ecosistemas. Ribagua, 2017, 4, 41-58.	0.3	4
79	Assessing the performance of natural and nature based defences. , 2018, , .		3
80	Rethinking Our Global Coastal Investment Portfolio. Journal of Ocean and Coastal Economics, 2016, 3, .	0.1	3
81	How Much Marsh Restoration Is Enough to Deliver Wave Attenuation Coastal Protection Benefits?. Frontiers in Marine Science, 2022, 8, .	2.5	2
82	Assessing risk associated with sea-level rise and storm surgeâ€”Redux. Natural Hazards, 2013, 65, 375-376.	3.4	1
83	Nature Based Solutions: Lessons from Across the World. , 2016, , .		1
84	Shoreline Solutions: Guiding Efficient Data Selection for Coastal Risk Modeling and the Design of Adaptation Interventions. Water (Switzerland), 2021, 13, 875.	2.7	1
85	Evaluating alternative future sea-level rise scenarios. Natural Hazards, 2012, 63, 1223-1224.	3.4	0
86	Bridging the Gap between Engineering and Ecology: Towards a Common Framework for Conventional and Nature-Based Coastal Defenses. , 2017, , .		0