

Steven D Gaines

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

136
papers

11,099
citations

49
h-index

104
g-index

149
ext. papers

13,037
ext. citations

8.7
avg, IF

6.52
L-index

#	Paper	IF	Citations
136	PROPAGULE DISPERSAL IN MARINE AND TERRESTRIAL ENVIRONMENTS: A COMMUNITY PERSPECTIVE. <i>Ecology</i> , 2003 , 84, 2007-2020	4.6	699
135	Temperature control of larval dispersal and the implications for marine ecology, evolution, and conservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1266-71	11.5	614
134	An index to assess the health and benefits of the global ocean. <i>Nature</i> , 2012 , 488, 615-20	50.4	578
133	Species diversity: from global decreases to local increases. <i>Trends in Ecology and Evolution</i> , 2003 , 18, 561-566	10.9	577
132	Can catch shares prevent fisheries collapse?. <i>Science</i> , 2008 , 321, 1678-81	33.3	572
131	Designing marine reserve networks for both conservation and fisheries management. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18286-93	11.5	562
130	The 'abundant centre' distribution: to what extent is it a biogeographical rule?. <i>Ecology Letters</i> , 2002 , 5, 137-147	10	526
129	Status and solutions for the world's unassessed fisheries. <i>Science</i> , 2012 , 338, 517-20	33.3	472
128	Moving beyond assumptions to understand abundance distributions across the ranges of species. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 524-30	10.9	370
127	Global fishery prospects under contrasting management regimes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5125-9	11.5	343
126	Competition and the Effect of Spatial Resource Heterogeneity on Evolutionary Diversification. <i>American Naturalist</i> , 2000 , 155, 769-789	3.7	335
125	2003 , 13, 47-64		270
124	Mapping the global potential for marine aquaculture. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1317-1324	12.3	212
123	Fishing the line near marine reserves in single and multispecies fisheries 2007 , 17, 1039-54		204
122	Evaluating tradeoffs among ecosystem services to inform marine spatial planning. <i>Marine Policy</i> , 2013 , 38, 80-89	3.5	199
121	Propagule dispersal and the scales of marine community process. <i>Diversity and Distributions</i> , 2005 , 11, 139-148	5	196
120	Seascape genetics and the spatial ecology of marine populations. <i>Fish and Fisheries</i> , 2008 , 9, 363-377	6	193

119	2003, 13, 32-46		182
118	Geographical abundance distributions of coastal invertebrates: using one-dimensional ranges to test biogeographic hypotheses. <i>Journal of Biogeography</i> , 2002 , 29, 985-997	4.1	143
117	Integrated Land-Sea Conservation Planning: The Missing Links. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011 , 42, 381-409	13.5	138
116	2003, 13, 8-24		135
115	Evolving science of marine reserves: new developments and emerging research frontiers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18251-5	11.5	134
114	OCEANS. Managing mining of the deep seabed. <i>Science</i> , 2015 , 349, 144-5	33.3	131
113	Protecting the global ocean for biodiversity, food and climate. <i>Nature</i> , 2021 , 592, 397-402	50.4	131
112	The limits to biogeographical distributions: insights from the northward range extension of the marine snail, <i>Kelletia kelletii</i> (Forbes, 1852). <i>Journal of Biogeography</i> , 2003 , 30, 913-924	4.1	127
111	CONFOUNDING EFFECTS OF THE EXPORT OF PRODUCTION AND THE DISPLACEMENT OF FISHING EFFORT FROM MARINE RESERVES 2004 , 14, 1248-1256		115
110	Improved fisheries management could offset many negative effects of climate change. <i>Science Advances</i> , 2018 , 4, eaao1378	14.3	107
109	Comparative terrestrial feed and land use of an aquaculture-dominant world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5295-5300	11.5	97
108	MARINE RESERVE DESIGN AND THE EVOLUTION OF SIZE AT MATURATION IN HARVESTED FISH 2005 , 15, 882-901		94
107	Ecological effects of full and partial protection in the crowded Mediterranean Sea: a regional meta-analysis. <i>Scientific Reports</i> , 2017 , 7, 8940	4.9	88
106	Marine reserve effects on fishery profit. <i>Ecology Letters</i> , 2008 , 11, 370-9	10	88
105	Identifying critical regions in small-world marine metapopulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E907-13	11.5	84
104	Offshore aquaculture: Spatial planning principles for sustainable development. <i>Ecology and Evolution</i> , 2017 , 7, 733-743	2.8	82
103	High fishery catches through trophic cascades in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 717-721	11.5	81
102	MAKING MOUNTAINS OUT OF BARNACLES: THE DYNAMICS OF ACORN BARNACLE HUMMOCKING. <i>Ecology</i> , 1998 , 79, 1382-1394	4.6	78

101	Operationalizing Network Theory for Ecosystem Service Assessments. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 118-130	10.9	69
100	When Do Ecosystem Services Depend on Rare Species?. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 746-758	5.9	66
99	Reproduction on the edge: large-scale patterns of individual performance in a marine invertebrate. <i>Ecology</i> , 2007 , 88, 2229-39	4.6	64
98	Habitat size, recruitment, and longevity as factors limiting population size in stage-structured species. <i>American Naturalist</i> , 2005 , 165, 82-94	3.7	64
97	MARINE RESERVES EXPLOIT POPULATION STRUCTURE AND LIFE HISTORY IN POTENTIALLY IMPROVING FISHERIES YIELDS 2005 , 15, 2180-2191		63
96	Fishing indirectly structures macroalgal assemblages by altering herbivore behavior. <i>American Naturalist</i> , 2010 , 176, 785-801	3.7	60
95	Agricultural pesticide use and adverse birth outcomes in the San Joaquin Valley of California. <i>Nature Communications</i> , 2017 , 8, 302	17.4	57
94	Recruitment of intertidal invertebrates and oceanographic variability at Santa Cruz Island, California. <i>Limnology and Oceanography</i> , 2005 , 50, 1473-1479	4.8	57
93	Key features and context-dependence of fishery-induced trophic cascades. <i>Conservation Biology</i> , 2010 , 24, 382-94	6	54
92	Model-based assessment of persistence in proposed marine protected area designs 2009 , 19, 433-48		54
91	Rapid and lasting gains from solving illegal fishing. <i>Nature Ecology and Evolution</i> , 2018 , 2, 650-658	12.3	53
90	New metrics for managing and sustaining the ocean's bounty. <i>Marine Policy</i> , 2012 , 36, 303-306	3.5	53
89	Five rules for pragmatic blue growth. <i>Marine Policy</i> , 2018 , 87, 331-339	3.5	51
88	Conservation management approaches to protecting the capacity for corals to respond to climate change: a theoretical comparison. <i>Global Change Biology</i> , 2010 , 16, 1229-1246	11.4	51
87	Opinion: Offshore aquaculture in the United States: Untapped potential in need of smart policy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7162-7165	11.5	43
86	Linking home ranges to protected area size: The case study of the Mediterranean Sea. <i>Biological Conservation</i> , 2018 , 221, 175-181	6.2	41
85	CAN RAPOPORT'S RULE BE RESCUED? MODELING CAUSES OF THE LATITUDINAL GRADIENT IN SPECIES RICHNESS. <i>Ecology</i> , 1999 , 80, 2474-2482	4.6	41
84	Resetting predator baselines in coral reef ecosystems. <i>Scientific Reports</i> , 2017 , 7, 43131	4.9	40

83	Range contraction enables harvesting to extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3945-3950	11.5	40
82	Economic Incentives and Global Fisheries Sustainability. <i>Annual Review of Resource Economics</i> , 2010 , 2, 299-318	5.9	39
81	Remaining questions in the case for balanced harvesting. <i>Fish and Fisheries</i> , 2016 , 17, 1216-1226	6	34
80	Fisheries regulatory regimes and resilience to climate change. <i>Ambio</i> , 2017 , 46, 399-412	6.5	31
79	Solutions for Recovering and Sustaining the Bounty of the Ocean: Combining Fishery Reforms, Rights-Based Fisheries Management, and Marine Reserves. <i>Oceanography</i> , 2015 , 25, 252-263	2.3	31
78	A global network of marine protected areas for food. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 28134-28139	11.5	31
77	Underestimating the benefits of marine protected areas for the replenishment of fished populations. <i>Frontiers in Ecology and the Environment</i> , 2019 , 17, 407-413	5.5	29
76	Using portfolio theory to assess tradeoffs between return from natural capital and social equity across space. <i>Biological Conservation</i> , 2011 , 144, 1499-1507	6.2	29
75	U.S. seafood import restriction presents opportunity and risk. <i>Science</i> , 2016 , 354, 1372-1374	33.3	29
74	Realistic fisheries management reforms could mitigate the impacts of climate change in most countries. <i>PLoS ONE</i> , 2020 , 15, e0224347	3.7	28
73	Marine reserves solve an important bycatch problem in fisheries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8927-8934	11.5	28
72	Ecological impacts of human-induced animal behaviour change. <i>Ecology Letters</i> , 2020 , 23, 1522-1536	10	28
71	Expanding marine protected areas to include degraded coral reefs. <i>Conservation Biology</i> , 2016 , 30, 1182-1191	19.1	28
70	Protection of large predators in a marine reserve alters size-dependent prey mortality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	27
69	Using people's perceptions of ecosystem services to guide modeling and management efforts. <i>Science of the Total Environment</i> , 2018 , 637-638, 1014-1025	10.2	27
68	Calibrating Environmental DNA Metabarcoding to Conventional Surveys for Measuring Fish Species Richness. <i>Frontiers in Ecology and Evolution</i> , 2020 , 8,	3.7	27
67	To what extent can ecosystem services motivate protecting biodiversity?. <i>Ecology Letters</i> , 2017 , 20, 935-946	14.6	26
66	Reconciling conflict between the direct and indirect effects of marine reserve protection. <i>Environmental Conservation</i> , 2012 , 39, 225-236	3.3	26

65	Spillover from marine reserves related to mechanisms of population regulation. <i>Theoretical Ecology</i> , 2008 , 1, 117-127	1.6	26
64	Let more big fish sink: Fisheries prevent blue carbon sequestration-half in unprofitable areas. <i>Science Advances</i> , 2020 , 6,	14.3	26
63	Functional diversity of catch mitigates negative effects of temperature variability on fisheries yields. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	25
62	Siting marine protected areas based on habitat quality and extent provides the greatest benefit to spatially structured metapopulations. <i>Ecosphere</i> , 2016 , 7, e01533	3.1	25
61	Cold range edges of marine fishes track climate change better than warm edges. <i>Global Change Biology</i> , 2020 , 26, 2908-2922	11.4	25
60	Managing Bay and Estuarine Ecosystems for Multiple Services. <i>Estuaries and Coasts</i> , 2015 , 38, 35-48	2.8	23
59	Growth and life history variability of the grey reef shark (<i>Carcharhinus amblyrhynchos</i>) across its range. <i>PLoS ONE</i> , 2017 , 12, e0172370	3.7	20
58	Biogeographic constraints to marine conservation in a changing climate. <i>Annals of the New York Academy of Sciences</i> , 2018 , 1429, 5-17	6.5	20
57	Protecting marine mammals, turtles, and birds by rebuilding global fisheries. <i>Science</i> , 2018 , 359, 1255-1258	3.9	18
56	Drivers of redistribution of fishing and non-fishing effort after the implementation of a marine protected area network 2017 , 27, 416-428		18
55	Opportunism on the High Seas: Foraging Ecology of Olive Ridley Turtles in the Eastern Pacific Ocean. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	17
54	Trophic redundancy and predator size class structure drive differences in kelp forest ecosystem dynamics. <i>Ecology</i> , 2020 , 101, e02993	4.6	17
53	Where Does River Runoff Matter for Coastal Marine Conservation?. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	17
52	Dispersal and Geographic Ranges in the Sea227-249		16
51	Designing MPAs for food security in open-access fisheries. <i>Scientific Reports</i> , 2019 , 9, 8033	4.9	15
50	Organization Science improves management effectiveness of Marine Protected Areas. <i>Journal of Environmental Management</i> , 2019 , 240, 285-292	7.9	14
49	Spatial and temporal variability in size at settlement of intertidal mytilid mussels from around Pt. Conception, California. <i>Invertebrate Reproduction and Development</i> , 2002 , 41, 171-177	0.7	14
48	Unexpected Management Choices When Accounting for Uncertainty in Ecosystem Service Tradeoff Analyses. <i>Conservation Letters</i> , 2017 , 10, 422-430	6.9	12

47	Spatiotemporal variation in the relationship between landscape simplification and insecticide use. <i>Ecological Applications</i> , 2015 , 25, 1976-83	4.9	12
46	New England Cod Collapse and the Climate. <i>PLoS ONE</i> , 2016 , 11, e0158487	3.7	12
45	The cost of management delay: The case for reforming Mexican fisheries sooner rather than later. <i>Marine Policy</i> , 2018 , 88, 1-10	3.5	12
44	Are Territorial Use Rights in Fisheries (TURFs) sufficiently large?. <i>Marine Policy</i> , 2017 , 78, 189-195	3.5	11
43	Fisheries governance in the face of climate change: Assessment of policy reform implications for Mexican fisheries. <i>PLoS ONE</i> , 2019 , 14, e0222317	3.7	10
42	Quality of a fished resource: Assessing spatial and temporal dynamics. <i>PLoS ONE</i> , 2018 , 13, e0196864	3.7	10
41	Do behavioral foraging responses of prey to predators function similarly in restored and pristine foodwebs?. <i>PLoS ONE</i> , 2012 , 7, e32390	3.7	10
40	Accounting for tourism benefits in marine reserve design. <i>PLoS ONE</i> , 2017 , 12, e0190187	3.7	9
39	Leveraging satellite technology to create true shark sanctuaries. <i>Conservation Letters</i> , 2019 , 12, e12610	6.9	9
38	A case for seaweed aquaculture inclusion in U.S. nutrient pollution management. <i>Marine Policy</i> , 2021 , 129, 104506	3.5	9
37	Disentangling the effects of fishing and environmental forcing on demographic variation in an exploited species. <i>Biological Conservation</i> , 2017 , 209, 488-498	6.2	8
36	Organization Science—A new prospective to assess marine protected areas effectiveness. <i>Ocean and Coastal Management</i> , 2015 , 116, 443-448	3.9	8
35	Effects of fish movement assumptions on the design of a marine protected area to protect an overfished stock. <i>PLoS ONE</i> , 2017 , 12, e0186309	3.7	8
34	Compelling evidence: an influence on middle school students' accounts that may impact decision-making about socioscientific issues. <i>Environmental Education Research</i> , 2017 , 23, 1115-1129	3.1	8
33	Trophic cascades in an invaded ecosystem: native keystone predators facilitate a dominant invader in an estuarine community. <i>Oikos</i> , 2015 , 124, 1282-1292	4	8
32	Range edges of North American marine species are tracking temperature over decades. <i>Global Change Biology</i> , 2021 , 27, 3145-3156	11.4	7
31	Describing ecosystem contexts with single-species models: a theoretical synthesis for fisheries. <i>Fish and Fisheries</i> , 2017 , 18, 264-284	6	6
30	Opportunities for agent-based modelling in human dimensions of fisheries. <i>Fish and Fisheries</i> , 2020 , 21, 570-587	6	6

29	Factors driving the implementation of fishery reforms. <i>Marine Policy</i> , 2016 , 71, 222-228	3.5	5
28	Habitat complexity impacts persistence and species interactions in an intertidal whelk. <i>Marine Biology</i> , 2012 , 159, 2867-2874	2.5	5
27	Forecasting fisheries collapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15859-60	11.5	5
26	PISCO: Advances Made Through the Formation of a Large-Scale, Long-Term Consortium for Integrated Understanding of Coastal Ecosystem Dynamics. <i>Oceanography</i> , 2019 , 32, 16-25	2.3	5
25	Connecting Science to Policymakers, Managers, and Citizens. <i>Oceanography</i> , 2019 , 32, 106-115	2.3	5
24	The scale of life and its lessons for humanity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6328-6330	11.5	5
23	Design trade-offs in rights-based management of small-scale fisheries. <i>Conservation Biology</i> , 2019 , 33, 361-368	6	4
22	Removing biases in forecasts of fishery status. <i>Journal of Bioeconomics</i> , 2014 , 16, 213-219	0.7	4
21	Halpern et al. reply. <i>Nature</i> , 2013 , 495, E7-E7	50.4	4
20	Cooperation as a solution to shared resources in territorial use rights in fisheries. <i>Ecological Applications</i> , 2020 , 30, e02022	4.9	4
19	Looking to aquatic species for conservation farming success. <i>Conservation Letters</i> , 2019 , 12, e12681	6.9	4
18	Ontogenetic shifts in predator diet drive tradeoffs between fisheries yield and strength of predator-prey interactions. <i>Fisheries Research</i> , 2018 , 205, 11-20	2.3	3
17	Confronting Ambiguity in Science. <i>The Science Teacher</i> , 2015 , 082,	0.6	3
16	Assessing the population-level conservation effects of marine protected areas. <i>Conservation Biology</i> , 2021 , 35, 1861-1870	6	3
15	Latitude and protection affect decadal trends in reef trophic structure over a continental scale. <i>Ecology and Evolution</i> , 2020 , 10, 6954-6966	2.8	2
14	Reply to Le Pape et al.: Management is key to preventing marine extinctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E6275-E6276	11.5	2
13	Broadly inflicted stressors can cause ecosystem thinning. <i>Theoretical Ecology</i> , 2019 , 12, 207-223	1.6	1
12	MAKING MOUNTAINS OUT OF BARNACLES: THE DYNAMICS OF ACORN BARNACLE HUMMOCKING 1998 , 79, 1382		1

11	Reply to Hilborn: Role of marine reserves depends on assumptions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10611	11.5	1
10	The importance of cultural ecosystem services in natural resource-dependent communities: Implications for management. <i>Ecosystem Services</i> , 2020 , 44, 101123	6.1	1
9	Status and trends of moored fish aggregating device (MFAD) fisheries in the Caribbean and Bermuda. <i>Marine Policy</i> , 2020 , 121, 104148	3.5	1
8	Variation in herbivore grazing behavior across Caribbean reef sites. <i>Marine Biology</i> , 2021 , 168, 1	2.5	1
7	Reply to Ovando et al.: How connected are global fisheries?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
6	A novel marine spatial management tool for multiple conflicts recognition and optimization of marine functional zoning in the East China sea. <i>Journal of Environmental Management</i> , 2021 , 298, 113506	7.9	1
5	Optimal harvest responses to environmental forecasts depend on resource knowledge and how it can be used. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2019 , 76, 1495-1502	2.4	0
4	First report on the swim bladder index, proximate composition, and fatty acid analysis of swim bladder from cultured <i>Totoaba macdonaldi</i> fed compound aquafeeds. <i>Aquaculture Reports</i> , 2021 , 21, 100901	2.3	0
3	Expanding ocean food production under climate change.. <i>Nature</i> , 2022 , 605, 490-496	50.4	0
2	Reply to 'Achieving sustainable and equitable fisheries requires nuanced policies not silver bullets'. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1335	12.3	
1	Reply to Hilborn: We agree that MPAs can improve fish catch in the South and Southeast Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	