

Steven D Gaines

List of Publications by Year in descending order

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Version: 2024-02-01

144
papers

14,877
citations

36303

51
h-index

22832

112
g-index

149
all docs

149
docs citations

149
times ranked

14957
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating Conditions for Moored Fish Aggregating Device Fisheries Development in the Caribbean and Bermuda. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	3
2	Expanding ocean food production under climate change. <i>Nature</i> , 2022, 605, 490-496.	27.8	20
3	A Scientific Synthesis of Marine Protected Areas in the United States: Status and Recommendations. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	10
4	Variation in herbivore grazing behavior across Caribbean reef sites. <i>Marine Biology</i> , 2021, 168, 1.	1.5	4
5	Protecting the global ocean for biodiversity, food and climate. <i>Nature</i> , 2021, 592, 397-402.	27.8	359
6	Range edges of North American marine species are tracking temperature over decades. <i>Global Change Biology</i> , 2021, 27, 3145-3156.	9.5	38
7	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, e2100660118.	7.1	0
8	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, e2100364118.	7.1	1
9	Assessing the population-level conservation effects of marine protected areas. <i>Conservation Biology</i> , 2021, 35, 1861-1870.	4.7	27
10	A case for seaweed aquaculture inclusion in U.S. nutrient pollution management. <i>Marine Policy</i> , 2021, 129, 104506.	3.2	32
11	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.	7.8	6
12	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.	1.7	3
13	Prepare developed democracies for long-run economic slowdowns. <i>Nature Human Behaviour</i> , 2021, 5, 1608-1621.	12.0	9
14	Cooperation as a solution to shared resources in territorial use rights in fisheries. <i>Ecological Applications</i> , 2020, 30, e02022.	3.8	8
15	The importance of cultural ecosystem services in natural resource-dependent communities: Implications for management. <i>Ecosystem Services</i> , 2020, 44, 101123.	5.4	18
16	Cold range edges of marine fishes track climate change better than warm edges. <i>Global Change Biology</i> , 2020, 26, 2908-2922.	9.5	66
17	Trophic redundancy and predator size class structure drive differences in kelp forest ecosystem dynamics. <i>Ecology</i> , 2020, 101, e02993.	3.2	43
18	Ecological impacts of human-induced animal behaviour change. <i>Ecology Letters</i> , 2020, 23, 1522-1536.	6.4	101

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19	Status and trends of moored fish aggregating device (MFAD) fisheries in the Caribbean and Bermuda. <i>Marine Policy</i> , 2020, 121, 104148.	3.2	8
20	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.	7.1	56
21	Let more big fish sink: Fisheries prevent blue carbon sequestration half in unprofitable areas. <i>Science Advances</i> , 2020, 6, .	10.3	77
22	Calibrating Environmental DNA Metabarcoding to Conventional Surveys for Measuring Fish Species Richness. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	74
23	Trophic Redundancy and Predator Size Class Structure Drive Differences in Kelp Forest Ecosystem Dynamics. <i>Bulletin of the Ecological Society of America</i> , 2020, 101, e01682.	0.2	0
24	Realistic fisheries management reforms could mitigate the impacts of climate change in most countries. <i>PLoS ONE</i> , 2020, 15, e0224347.	2.5	66
25	Opportunities for agent-based modelling in human dimensions of fisheries. <i>Fish and Fisheries</i> , 2020, 21, 570-587.	5.3	16
26	Latitude and protection affect decadal trends in reef trophic structure over a continental scale. <i>Ecology and Evolution</i> , 2020, 10, 6954-6966.	1.9	5
27	Design tradeoffs in rights-based management of small-scale fisheries. <i>Conservation Biology</i> , 2019, 33, 361-368.	4.7	10
28	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.	4.0	53
29	Fisheries governance in the face of climate change: Assessment of policy reform implications for Mexican fisheries. <i>PLoS ONE</i> , 2019, 14, e0222317.	2.5	18
30	A new narrative for the ocean. <i>Science</i> , 2019, 364, 911-911.	12.6	55
31	Designing MPAs for food security in open-access fisheries. <i>Scientific Reports</i> , 2019, 9, 8033.	3.3	31
32	When Do Ecosystem Services Depend on Rare Species?. <i>Trends in Ecology and Evolution</i> , 2019, 34, 746-758.	8.7	159
33	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.	1.4	2
34	Organization Science improves management effectiveness of Marine Protected Areas. <i>Journal of Environmental Management</i> , 2019, 240, 285-292.	7.8	23
35	Broadly inflicted stressors can cause ecosystem thinning. <i>Theoretical Ecology</i> , 2019, 12, 207-223.	1.0	2
36	Looking to aquatic species for conservation farming success. <i>Conservation Letters</i> , 2019, 12, e12681.	5.7	6

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37	Leveraging satellite technology to create true shark sanctuaries. <i>Conservation Letters</i> , 2019, 12, e12610.	5.7	18
38	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.	1.0	7
39	Connecting Science to Policymakers, Managers, and Citizens. <i>Oceanography</i> , 2019, 32, 106-115.	1.0	9
40	The Science of Marine Reserves: A Series of Booklets and Graphics Connecting Science, Public Understanding, and Policy. <i>Oceanography</i> , 2019, 32, 104-105.	1.0	1
41	Ontogenetic shifts in predator diet drive tradeoffs between fisheries yield and strength of predator-prey interactions. <i>Fisheries Research</i> , 2018, 205, 11-20.	1.7	4
42	Biogeographic constraints to marine conservation in a changing climate. <i>Annals of the New York Academy of Sciences</i> , 2018, 1429, 5-17.	3.8	40
43	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.	7.1	164
44	Protecting marine mammals, turtles, and birds by rebuilding global fisheries. <i>Science</i> , 2018, 359, 1255-1258.	12.6	34
45	Rapid and lasting gains from solving illegal fishing. <i>Nature Ecology and Evolution</i> , 2018, 2, 650-658.	7.8	85
46	Linking home ranges to protected area size: The case study of the Mediterranean Sea. <i>Biological Conservation</i> , 2018, 221, 175-181.	4.1	64
47	Five rules for pragmatic blue growth. <i>Marine Policy</i> , 2018, 87, 331-339.	3.2	78
48	The cost of management delay: The case for reforming Mexican fisheries sooner rather than later. <i>Marine Policy</i> , 2018, 88, 1-10.	3.2	16
49	Improved fisheries management could offset many negative effects of climate change. <i>Science Advances</i> , 2018, 4, eaao1378.	10.3	168
50	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.	7.1	8
51	Reply to "Achieving sustainable and equitable fisheries requires nuanced policies not silver bullets". <i>Nature Ecology and Evolution</i> , 2018, 2, 1335-1335.	7.8	0
52	Quality of a fished resource: Assessing spatial and temporal dynamics. <i>PLoS ONE</i> , 2018, 13, e0196864.	2.5	11
53	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.	7.1	65
54	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.	8.0	38

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55	Offshore aquaculture: Spatial planning principles for sustainable development. <i>Ecology and Evolution</i> , 2017, 7, 733-743.	1.9	128
56	Are Territorial Use Rights in Fisheries (TURFs) sufficiently large?. <i>Marine Policy</i> , 2017, 78, 189-195.	3.2	18
57	Resetting predator baselines in coral reef ecosystems. <i>Scientific Reports</i> , 2017, 7, 43131.	3.3	44
58	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, 20161936.	2.6	33
59	Describing ecosystem contexts with single-species models: a theoretical synthesis for fisheries. <i>Fish and Fisheries</i> , 2017, 18, 264-284.	5.3	11
60	Disentangling the effects of fishing and environmental forcing on demographic variation in an exploited species. <i>Biological Conservation</i> , 2017, 209, 488-498.	4.1	11
61	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.	7.1	53
62	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.	7.1	116
63	Mapping the global potential for marine aquaculture. <i>Nature Ecology and Evolution</i> , 2017, 1, 1317-1324.	7.8	327
64	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.	7.1	3
65	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.	7.1	45
66	To what extent can ecosystem services motivate protecting biodiversity?. <i>Ecology Letters</i> , 2017, 20, 935-946.	6.4	45
67	Operationalizing Network Theory for Ecosystem Service Assessments. <i>Trends in Ecology and Evolution</i> , 2017, 32, 118-130.	8.7	103
68	Fisheries regulatory regimes and resilience to climate change. <i>Ambio</i> , 2017, 46, 399-412.	5.5	54
69	Drivers of redistribution of fishing and non-fishing effort after the implementation of a marine protected area network. <i>Ecological Applications</i> , 2017, 27, 416-428.	3.8	37
70	Unexpected Management Choices When Accounting for Uncertainty in Ecosystem Service Tradeoff Analyses. <i>Conservation Letters</i> , 2017, 10, 422-430.	5.7	16
71	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.	2.9	14
72	Opportunism on the High Seas: Foraging Ecology of Olive Ridley Turtles in the Eastern Pacific Ocean. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	26

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73	Growth and life history variability of the grey reef shark (<i>Carcharhinus amblyrhynchos</i>) across its range. <i>PLoS ONE</i> , 2017, 12, e0172370.	2.5	29
74	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.	2.5	9
75	Accounting for tourism benefits in marine reserve design. <i>PLoS ONE</i> , 2017, 12, e0190187.	2.5	21
76	Agricultural pesticide use and adverse birth outcomes in the San Joaquin Valley of California. <i>Nature Communications</i> , 2017, 8, 302.	12.8	91
77	Ecological effects of full and partial protection in the crowded Mediterranean Sea: a regional meta-analysis. <i>Scientific Reports</i> , 2017, 7, 8940.	3.3	138
78	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.	7.1	1
79	Where Does River Runoff Matter for Coastal Marine Conservation?. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	29
80	New England Cod Collapse and the Climate. <i>PLoS ONE</i> , 2016, 11, e0158487.	2.5	15
81	Expanding marine protected areas to include degraded coral reefs. <i>Conservation Biology</i> , 2016, 30, 1182-1191.	4.7	39
82	Remaining questions in the case for balanced harvesting. <i>Fish and Fisheries</i> , 2016, 17, 1216-1226.	5.3	39
83	U.S. seafood import restriction presents opportunity and risk. <i>Science</i> , 2016, 354, 1372-1374.	12.6	36
84	Factors driving the implementation of fishery reforms. <i>Marine Policy</i> , 2016, 71, 222-228.	3.2	6
85	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, 20161435.	2.6	33
86	Siting marine protected areas based on habitat quality and extent provides the greatest benefit to spatially structured metapopulations. <i>Ecosphere</i> , 2016, 7, e01533.	2.2	33
87	Global fishery prospects under contrasting management regimes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5125-5129.	7.1	485
88	Trophic cascades in an invaded ecosystem: native keystone predators facilitate a dominant invader in an estuarine community. <i>Oikos</i> , 2015, 124, 1282-1292.	2.7	13
89	Spatiotemporal variation in the relationship between landscape simplification and insecticide use. <i>Ecological Applications</i> , 2015, 25, 1976-1983.	3.8	14
90	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.	1.0	44

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91	Managing mining of the deep seabed. <i>Science</i> , 2015, 349, 144-145.	12.6	187
92	â€Organization Scienceâ€™: A new prospective to assess marine protected areas effectiveness. <i>Ocean and Coastal Management</i> , 2015, 116, 443-448.	4.4	9
93	Managing Bay and Estuarine Ecosystems for Multiple Services. <i>Estuaries and Coasts</i> , 2015, 38, 35-48.	2.2	32
94	Confronting Ambiguity in Science. <i>The Science Teacher</i> , 2015, 082, .	0.1	4
95	Removing biases in forecasts of fishery status. <i>Journal of Bioeconomics</i> , 2014, 16, 213-219.	3.3	5
96	Halpern et al. reply. <i>Nature</i> , 2013, 495, E7-E7.	27.8	4
97	Evaluating tradeoffs among ecosystem services to inform marine spatial planning. <i>Marine Policy</i> , 2013, 38, 80-89.	3.2	270
98	Forecasting fisheries collapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15859-15860.	7.1	6
99	Reconciling conflict between the direct and indirect effects of marine reserve protection. <i>Environmental Conservation</i> , 2012, 39, 225-236.	1.3	27
100	Habitat complexity impacts persistence and species interactions in an intertidal whelk. <i>Marine Biology</i> , 2012, 159, 2867-2874.	1.5	9
101	An index to assess the health and benefits of the global ocean. <i>Nature</i> , 2012, 488, 615-620.	27.8	736
102	Status and Solutions for the Worldâ€™s Unassessed Fisheries. <i>Science</i> , 2012, 338, 517-520.	12.6	621
103	New metrics for managing and sustaining the ocean's bounty. <i>Marine Policy</i> , 2012, 36, 303-306.	3.2	67
104	Do Behavioral Foraging Responses of Prey to Predators Function Similarly in Restored and Pristine Foodwebs?. <i>PLoS ONE</i> , 2012, 7, e32390.	2.5	12
105	Using portfolio theory to assess tradeoffs between return from natural capital and social equity across space. <i>Biological Conservation</i> , 2011, 144, 1499-1507.	4.1	35
106	Integrated Land-Sea Conservation Planning: The Missing Links. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011, 42, 381-409.	8.3	181
107	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.	7.1	107
108	Key Features and Contextâ€™Dependence of Fisheryâ€™Induced Trophic Cascades. <i>Conservation Biology</i> , 2010, 24, 382-394.	4.7	63

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109	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.	9.5	58
110	Fishing Indirectly Structures Macroalgal Assemblages by Altering Herbivore Behavior. <i>American Naturalist</i> , 2010, 176, 785-801.	2.1	72
111	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, 18286-18293.	7.1	689
112	Economic Incentives and Global Fisheries Sustainability. <i>Annual Review of Resource Economics</i> , 2010, 2, 299-318.	3.7	61
113	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, 18251-18255.	7.1	146
114	Model-based assessment of persistence in proposed marine protected area designs. <i>Ecological Applications</i> , 2009, 19, 433-448.	3.8	63
115	Spillover from marine reserves related to mechanisms of population regulation. <i>Theoretical Ecology</i> , 2008, 1, 117-127.	1.0	31
116	Seascape genetics and the spatial ecology of marine populations. <i>Fish and Fisheries</i> , 2008, 9, 363-377.	5.3	224
117	Marine reserve effects on fishery profit. <i>Ecology Letters</i> , 2008, 11, 370-379.	6.4	95
118	Can Catch Shares Prevent Fisheries Collapse?. <i>Science</i> , 2008, 321, 1678-1681.	12.6	693
119	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, 1266-1271.	7.1	749
120	REPRODUCTION ON THE EDGE: LARGE-SCALE PATTERNS OF INDIVIDUAL PERFORMANCE IN A MARINE INVERTEBRATE. <i>Ecology</i> , 2007, 88, 2229-2239.	3.2	72
121	FISHING THE LINE NEAR MARINE RESERVES IN SINGLE AND MULTISPECIES FISHERIES. , 2007, 17, 1039-1054.		239
122	Moving beyond assumptions to understand abundance distributions across the ranges of species. <i>Trends in Ecology and Evolution</i> , 2006, 21, 524-530.	8.7	426
123	Recruitment of intertidal invertebrates and oceanographic variability at Santa Cruz Island, California. <i>Limnology and Oceanography</i> , 2005, 50, 1473-1479.	3.1	66
124	Propagule dispersal and the scales of marine community process. <i>Diversity and Distributions</i> , 2005, 11, 139-148.	4.1	246
125	MARINE RESERVES EXPLOIT POPULATION STRUCTURE AND LIFE HISTORY IN POTENTIALLY IMPROVING FISHERIES YIELDS. , 2005, 15, 2180-2191.		76
126	Habitat Size, Recruitment, and Longevity as Factors Limiting Population Size in Stage-Structured Species. <i>American Naturalist</i> , 2005, 165, 82-94.	2.1	76

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127	MARINE RESERVE DESIGN AND THE EVOLUTION OF SIZE AT MATURATION IN HARVESTED FISH. , 2005, 15, 882-901.		112
128	CONFOUNDING EFFECTS OF THE EXPORT OF PRODUCTION AND THE DISPLACEMENT OF FISHING EFFORT FROM MARINE RESERVES. , 2004, 14, 1248-1256.		137
129	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.	3.0	163
130	POPULATION MODELS FOR MARINE RESERVE DESIGN: A RETROSPECTIVE AND PROSPECTIVE SYNTHESIS. , 2003, 13, 47-64.		309
131	Species diversity: from global decreases to local increases. <i>Trends in Ecology and Evolution</i> , 2003, 18, 561-566.	8.7	701
132	PROPAGULE DISPERSAL IN MARINE AND TERRESTRIAL ENVIRONMENTS: A COMMUNITY PERSPECTIVE. <i>Ecology</i> , 2003, 84, 2007-2020.	3.2	839
133	AVOIDING CURRENT OVERSIGHTS IN MARINE RESERVE DESIGN. , 2003, 13, 32-46.		223
134	ENSURING PERSISTENCE OF MARINE RESERVES: CATASTROPHES REQUIRE ADOPTING AN INSURANCE FACTOR. , 2003, 13, 8-24.		159
135	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.	0.8	18
136	Geographical abundance distributions of coastal invertebrates: using one-dimensional ranges to test biogeographic hypotheses. <i>Journal of Biogeography</i> , 2002, 29, 985-997.	3.0	159
137	The 'abundant centre' distribution: to what extent is it a biogeographical rule?. <i>Ecology Letters</i> , 2002, 5, 137-147.	6.4	628
138	Temperature or Transport? Range Limits in Marine Species Mediated Solely by Flow. <i>American Naturalist</i> , 2000, 155, 769-789.	2.1	402
139	CAN RAPOPORT'S RULE BE RESCUED? MODELING CAUSES OF THE LATITUDINAL GRADIENT IN SPECIES RICHNESS. <i>Ecology</i> , 1999, 80, 2474-2482.	3.2	50
140	MAKING MOUNTAINS OUT OF BARNACLES: THE DYNAMICS OF ACORN BARNACLE HUMMOCKING. <i>Ecology</i> , 1998, 79, 1382-1394.	3.2	98
141	MAKING MOUNTAINS OUT OF BARNACLES: THE DYNAMICS OF ACORN BARNACLE HUMMOCKING. , 1998, 79, 1382.		1
142	Preparing Developed Democracies for Long-Run Economic Slowdowns. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
143	Dispersal and Geographic Ranges in the Sea. , 0, , 227-249.		21
144	Climate change and fishing are pulling the functional diversity of the world's largest marine fisheries to opposite extremes. <i>Global Ecology and Biogeography</i> , 0, , .	5.8	7