

Julia L Blanchard

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

11,650
citations

30070

54
h-index

30922

102
g-index

141
all docs

141
docs citations

141
times ranked

14090
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiversity redistribution under climate change: Impacts on ecosystems and human well-being. <i>Science</i> , 2017, 355, .	12.6	2,026
2	CONSUMERâ€™RESOURCE BODY-SIZE RELATIONSHIPS IN NATURAL FOOD WEBS. <i>Ecology</i> , 2006, 87, 2411-2417.	3.2	568
3	Impacts of climate change on marine ecosystem production in societies dependent on fisheries. <i>Nature Climate Change</i> , 2014, 4, 211-216.	18.8	434
4	Global ensemble projections reveal trophic amplification of ocean biomass declines with climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12907-12912.	7.1	357
5	Can marine fisheries and aquaculture meet fish demand from a growing human population in a changing climate?. <i>Global Environmental Change</i> , 2012, 22, 795-806.	7.8	322
6	Potential consequences of climate change for primary production and fish production in large marine ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2979-2989.	4.0	321
7	A bioenergetic framework for the temperature dependence of trophic interactions. <i>Ecology Letters</i> , 2014, 17, 902-914.	6.4	268
8	Vulnerability of Coral Reef Fisheries to a Loss of Structural Complexity. <i>Current Biology</i> , 2014, 24, 1000-1005.	3.9	255
9	Fish abundance with no fishing: predictions based on macroecological theory. <i>Journal of Animal Ecology</i> , 2004, 73, 632-642.	2.8	246
10	Fuel use and greenhouse gas emissions of world fisheries. <i>Nature Climate Change</i> , 2018, 8, 333-337.	18.8	223
11	Continental Shelf-Wide Response of a Fish Assemblage to Rapid Warming of the Sea. <i>Current Biology</i> , 2011, 21, 1565-1570.	3.9	208
12	Global-scale predictions of community and ecosystem properties from simple ecological theory. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1375-1383.	2.6	200
13	How does abundance scale with body size in coupled sizeâ€structured food webs?. <i>Journal of Animal Ecology</i> , 2009, 78, 270-280.	2.8	198
14	Food production shocks across land and sea. <i>Nature Sustainability</i> , 2019, 2, 130-137.	23.7	187
15	Satellite remote sensing of ecosystem functions: opportunities, challenges and way forward. <i>Remote Sensing in Ecology and Conservation</i> , 2018, 4, 71-93.	4.3	176
16	From Bacteria to Whales: Using Functional Size Spectra to Model Marine Ecosystems. <i>Trends in Ecology and Evolution</i> , 2017, 32, 174-186.	8.7	170
17	Do climate and fishing influence size-based indicators of Celtic Sea fish community structure?. <i>ICES Journal of Marine Science</i> , 2005, 62, 405-411.	2.5	168
18	Linked sustainability challenges and trade-offs among fisheries, aquaculture and agriculture. <i>Nature Ecology and Evolution</i> , 2017, 1, 1240-1249.	7.8	161

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19	Using indicators for evaluating, comparing, and communicating the ecological status of exploited marine ecosystems. 2. Setting the scene. <i>ICES Journal of Marine Science</i> , 2010, 67, 692-716.	2.5	156
20	Managing consequences of climate-driven species redistribution requires integration of ecology, conservation and social science. <i>Biological Reviews</i> , 2018, 93, 284-305.	10.4	154
21	Twenty-first-century climate change impacts on marine animal biomass and ecosystem structure across ocean basins. <i>Global Change Biology</i> , 2019, 25, 459-472.	9.5	151
22	Global adoption of novel aquaculture feeds could substantially reduce forage fish demand by 2030. <i>Nature Food</i> , 2020, 1, 301-308.	14.0	148
23	Planetary boundaries for a blue planet. <i>Nature Ecology and Evolution</i> , 2017, 1, 1625-1634.	7.8	139
24	Evaluating targets and trade-offs among fisheries and conservation objectives using a multispecies size spectrum model. <i>Journal of Applied Ecology</i> , 2014, 51, 612-622.	4.0	130
25	Developing Alternative Indices of Reproductive Potential for Use in Fisheries Management: Case Studies for Stocks Spanning an Information Gradient. <i>Journal of Northwest Atlantic Fishery Science</i> , 2003, 33, 161-190.	1.4	117
26	A protocol for the intercomparison of marine fishery and ecosystem models: Fish-MIP v1.0. <i>Geoscientific Model Development</i> , 2018, 11, 1421-1442.	3.6	116
27	Evolution of global marine fishing fleets and the response of fished resources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12238-12243.	7.1	115
28	Ecological Networks in a Changing Climate. <i>Advances in Ecological Research</i> , 2010, , 71-138.	2.7	110
29	Predicting the consequences of species loss using size-structured biodiversity approaches. <i>Biological Reviews</i> , 2017, 92, 684-697.	10.4	108
30	BODY SIZES OF CONSUMERS AND THEIR RESOURCES. <i>Ecology</i> , 2005, 86, 2545-2545.	3.2	105
31	Fish body sizes change with temperature but not all species shrink with warming. <i>Nature Ecology and Evolution</i> , 2020, 4, 809-814.	7.8	103
32	Trend analysis of indicators: a comparison of recent changes in the status of marine ecosystems around the world. <i>ICES Journal of Marine Science</i> , 2010, 67, 732-744.	2.5	102
33	Fisheries productivity under progressive coral reef degradation. <i>Journal of Applied Ecology</i> , 2018, 55, 1041-1049.	4.0	101
34	Size-spectra dynamics from stochastic predation and growth of individuals. <i>Ecology</i> , 2009, 90, 802-811.	3.2	98
35	Aggregation and removal of weak-links in food-web models: system stability and recovery from disturbance. <i>Ecological Modelling</i> , 2005, 184, 229-248.	2.5	97
36	Next-generation ensemble projections reveal higher climate risks for marine ecosystems. <i>Nature Climate Change</i> , 2021, 11, 973-981.	18.8	96

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37	Future fish distributions constrained by depth in warming seas. <i>Nature Climate Change</i> , 2015, 5, 569-573.	18.8	94
38	Distribution–abundance relationships for North Sea Atlantic cod (<i>Gadus morhua</i>): observation versus theory. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2005, 62, 2001-2009.	1.4	92
39	<i>comsumer</i> : an R package for multispecies, trait-based and community size spectrum ecological modelling. <i>Methods in Ecology and Evolution</i> , 2014, 5, 1121-1125.	5.2	85
40	Individual-Based Food Webs. <i>Advances in Ecological Research</i> , 2010, , 211-266.	2.7	84
41	Testing and recommending methods for fitting size spectra to data. <i>Methods in Ecology and Evolution</i> , 2017, 8, 57-67.	5.2	84
42	Coupled energy pathways and the resilience of size-structured food webs. <i>Theoretical Ecology</i> , 2011, 4, 289-300.	1.0	81
43	Making modelling count - increasing the contribution of shelf-seas community and ecosystem models to policy development and management. <i>Marine Policy</i> , 2015, 61, 291-302.	3.2	81
44	To Achieve a Sustainable Blue Future, Progress Assessments Must Include Interdependencies between the Sustainable Development Goals. <i>One Earth</i> , 2020, 2, 161-173.	6.8	77
45	Making Robust Policy Decisions Using Global Biodiversity Indicators. <i>PLoS ONE</i> , 2012, 7, e41128.	2.5	75
46	Energy Flow Through Marine Ecosystems: Confronting Transfer Efficiency. <i>Trends in Ecology and Evolution</i> , 2021, 36, 76-86.	8.7	70
47	Across ecosystem comparisons of size structure: methods, approaches and prospects. <i>Oikos</i> , 2011, 120, 550-563.	2.7	69
48	A general framework for combining ecosystem models. <i>Fish and Fisheries</i> , 2018, 19, 1031-1042.	5.3	66
49	Putting all foods on the same table: Achieving sustainable food systems requires full accounting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18152-18156.	7.1	66
50	Assessing National Biodiversity Trends for Rocky and Coral Reefs through the Integration of Citizen Science and Scientific Monitoring Programs. <i>BioScience</i> , 2017, 67, 134-146.	4.9	64
51	Effects of condition on fecundity and total egg production of eastern Scotian Shelf haddock (<i>Melanogrammus aeglefinus</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2003, 60, 321-332.	1.4	61
52	Ecosystem size structure response to 21st century climate projection: large fish abundance decreases in the central North Pacific and increases in the California Current. <i>Global Change Biology</i> , 2013, 19, 724-733.	9.5	60
53	Refocusing multiple stressor research around the targets and scales of ecological impacts. <i>Nature Ecology and Evolution</i> , 2021, 5, 1478-1489.	7.8	59
54	The specificity of marine ecological indicators to fishing in the face of environmental change: A multi-model evaluation. <i>Ecological Indicators</i> , 2018, 89, 317-326.	6.3	58

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55	Body size shifts and early warning signals precede the historic collapse of whale stocks. <i>Nature Ecology and Evolution</i> , 2017, 1, 188.	7.8	56
56	Global in scope and regionally rich: an IndiSeas workshop helps shape the future of marine ecosystem indicators. <i>Reviews in Fish Biology and Fisheries</i> , 2012, 22, 835-845.	4.9	55
57	Fishing mortality versus natural predation on diurnally migrating sandeels <i>Ammodytes marinus</i> . <i>Marine Ecology - Progress Series</i> , 2008, 369, 213-227.	1.9	55
58	Early warning signals of recovery in complex systems. <i>Nature Communications</i> , 2019, 10, 1681.	12.8	52
59	CONSEQUENCES OF ALTERNATIVE FUNCTIONAL RESPONSE FORMULATIONS IN MODELS EXPLORING WHALE-FISHERY INTERACTIONS. <i>Marine Mammal Science</i> , 2003, 19, 661-681.	1.8	49
60	Ecosystem-based management of coral reefs under climate change. <i>Ecology and Evolution</i> , 2018, 8, 6354-6368.	1.9	49
61	Power of monitoring surveys to detect abundance trends in depleted populations: the effects of density-dependent habitat use, patchiness, and climate change. <i>ICES Journal of Marine Science</i> , 2008, 65, 111-120.	2.5	44
62	A functional size-spectrum model of the global marine ecosystem that resolves zooplankton composition. <i>Ecological Modelling</i> , 2020, 435, 109265.	2.5	44
63	Disentangling diverse responses to climate change among global marine ecosystem models. <i>Progress in Oceanography</i> , 2021, 198, 102659.	3.2	42
64	Zooplankton Are Not Fish: Improving Zooplankton Realism in Size-Spectrum Models Mediates Energy Transfer in Food Webs. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	39
65	Considering land-sea interactions and trade-offs for food and biodiversity. <i>Global Change Biology</i> , 2018, 24, 580-596.	9.5	39
66	A rewired food web. <i>Nature</i> , 2015, 527, 173-174.	27.8	37
67	Functional, size and taxonomic diversity of fish along a depth gradient in the deep sea. <i>PeerJ</i> , 2016, 4, e2387.	2.0	37
68	High refuge availability on coral reefs increases the vulnerability of reef-associated predators to overexploitation. <i>Ecology</i> , 2018, 99, 450-463.	3.2	36
69	Ensemble Projections of Future Climate Change Impacts on the Eastern Bering Sea Food Web Using a Multispecies Size Spectrum Model. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	36
70	Ecosystem-based fisheries management requires broader performance indicators for the human dimension. <i>Marine Policy</i> , 2019, 108, 103639.	3.2	35
71	Relative Impacts of Simultaneous Stressors on a Pelagic Marine Ecosystem. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	32
72	Time to rethink trophic levels in aquaculture policy. <i>Reviews in Aquaculture</i> , 2021, 13, 1583-1593.	9.0	31

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73	Quantifying heterogeneous responses of fish community size structure using novel combined statistical techniques. <i>Global Change Biology</i> , 2016, 22, 1755-1768.	9.5	30
74	Using stable isotope data to advance marine food web modelling. <i>Reviews in Fish Biology and Fisheries</i> , 2019, 29, 277-296.	4.9	30
75	A trait-based metric sheds new light on the nature of the body size-depth relationship in the deep sea. <i>Journal of Animal Ecology</i> , 2016, 85, 427-436.	2.8	27
76	The effects of seasonal processes on size spectrum dynamics. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 598-610.	1.4	27
77	Where the Ecological Gaps Remain, a Modelers' Perspective. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	27
78	Direct and indirect effects of climate and fishing on changes in coastal ecosystem services: a historical perspective from the North Sea. <i>Regional Environmental Change</i> , 2016, 16, 341-351.	2.9	26
79	Species-specific ontogenetic diet shifts attenuate trophic cascades and lengthen food chains in exploited ecosystems. <i>Oikos</i> , 2019, 128, 1051-1064.	2.7	26
80	Two takes on the ecosystem impacts of climate change and fishing: Comparing a size-based and a species-based ecosystem model in the central North Pacific. <i>Progress in Oceanography</i> , 2015, 138, 533-545.	3.2	25
81	Assumptions behind size-based ecosystem models are realistic. <i>ICES Journal of Marine Science</i> , 2016, 73, 1651-1655.	2.5	25
82	Parameter uncertainty of a dynamic multispecies size spectrum model. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 589-597.	1.4	25
83	Predicted Effects of Behavioural Movement and Passive Transport on Individual Growth and Community Size Structure in Marine Ecosystems. <i>Advances in Ecological Research</i> , 2011, , 41-66.	2.7	24
84	Trade and foreign fishing mediate global marine nutrient supply. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	24
85	Dynamic prediction of effort reallocation in mixed fisheries. <i>Fisheries Research</i> , 2012, 125-126, 243-253.	1.7	23
86	Alternative energy pathways in Southern Ocean food webs: Insights from a balanced model of Prydz Bay, Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 174, 104613.	1.4	23
87	Integrated modelling to support decision-making for marine social-ecological systems in Australia. <i>ICES Journal of Marine Science</i> , 2017, 74, 2298-2308.	2.5	22
88	A cross-scale framework to support a mechanistic understanding and modelling of marine climate-driven species redistribution, from individuals to communities. <i>Ecography</i> , 2020, 43, 1764-1778.	4.5	22
89	Accounting for the bin structure of data removes bias when fitting size spectra. <i>Marine Ecology - Progress Series</i> , 2020, 636, 19-33.	1.9	22
90	Fisheries Assessment and Management: A Synthesis of Common Approaches with Special Reference to Deepwater and Data-Poor Stocks. <i>Reviews in Fisheries Science</i> , 2012, 20, 136-153.	2.1	20

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91	Defining global artisanal fisheries. <i>Marine Policy</i> , 2019, 108, 103634.	3.2	20
92	Differing marine animal biomass shifts under 21st century climate change between Canada's three oceans. <i>Facets</i> , 2020, 5, 105-122.	2.4	20
93	Fishing for Space: Fine-Scale Multi-Sector Maritime Activities Influence Fisher Location Choice. <i>PLoS ONE</i> , 2015, 10, e0116335.	2.5	19
94	Managing fisheries for maximum nutrient yield. <i>Fish and Fisheries</i> , 2022, 23, 800-811.	5.3	19
95	Shifts in plankton size spectra modulate growth and coexistence of anchovy and sardine in upwelling systems. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 611-621.	1.4	18
96	Globally consistent reef size spectra integrating fishes and invertebrates. <i>Ecology Letters</i> , 2021, 24, 572-579.	6.4	18
97	Decades of dietary data demonstrate regional food web structures in the Southern Ocean. <i>Ecology and Evolution</i> , 2021, 11, 227-241.	1.9	17
98	Potential impacts of climate change on agriculture and fisheries production in 72 tropical coastal communities. <i>Nature Communications</i> , 2022, 13, .	12.8	17
99	Body condition of predatory fishes linked to the availability of sandeels. <i>Marine Biology</i> , 2013, 160, 299-308.	1.5	16
100	Integrating Life Cycle and Impact Assessments to Map Food's Cumulative Environmental Footprint. <i>One Earth</i> , 2020, 3, 65-78.	6.8	16
101	Body size and ecosystem dynamics: an introduction. <i>Oikos</i> , 2011, 120, 481-482.	2.7	15
102	Contrasting Futures for Australia's Fisheries Stocks Under IPCC RCP8.5 Emissions – A Multi-Ecosystem Model Approach. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	15
103	Using an integral projection model to assess the effect of temperature on the growth of gilthead seabream <i>Sparus aurata</i> . <i>PLoS ONE</i> , 2018, 13, e0196092.	2.5	14
104	Food security challenged by declining efficiencies of artisanal fishing fleets: A global country-level analysis. <i>Global Food Security</i> , 2022, 32, 100598.	8.1	14
105	Energetically relevant predator-prey body mass ratios and their relationship with predator body size. <i>Ecology and Evolution</i> , 2019, 9, 201-211.	1.9	12
106	Functional traits explain trophic allometries of cephalopods. <i>Journal of Animal Ecology</i> , 2020, 89, 2692-2703.	2.8	12
107	Quantifying uncertainty and dynamical changes in multi-species fishing mortality rates, catches and biomass by combining state-space and size-based multi-species models. <i>Fish and Fisheries</i> , 2021, 22, 667.	5.3	12
108	Lost in space? Searching for directions in the spatial modelling of individuals, populations and species ranges. <i>Biology Letters</i> , 2010, 6, 575-578.	2.3	11

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109	The population increase of common guillemots <i>Uria aalge</i> on Skomer Island is explained by intrinsic demographic properties. <i>Journal of Avian Biology</i> , 2013, 44, 055-061.	1.2	11
110	Improving understanding of the functional diversity of fisheries by exploring the influence of global catch reconstruction. <i>Scientific Reports</i> , 2017, 7, 10746.	3.3	11
111	Increasing the uptake of ecological model results in policy decisions to improve biodiversity outcomes. <i>Environmental Modelling and Software</i> , 2022, 149, 105318.	4.5	11
112	Scaling marine fish movement behavior from individuals to populations. <i>Ecology and Evolution</i> , 2018, 8, 7031-7043.	1.9	10
113	Predicting global tuna vulnerabilities with spatial, economic, biological and climatic considerations. <i>Scientific Reports</i> , 2018, 8, 10572.	3.3	10
114	Testing CPUE-derived spatial occupancy as an indicator for stock abundance: application to deep-sea stocks. <i>Aquatic Living Resources</i> , 2013, 26, 319-332.	1.2	9
115	80 Years of Multispecies Fisheries Modelling: Significant Advances and Continuing Challenges. , 0, , 325-357.		8
116	Uniting Discoveries of Abundance-Size Distributions from Soils and Seas. <i>Trends in Ecology and Evolution</i> , 2019, 34, 2-5.	8.7	8
117	Size-based indicators show depth-dependent change over time in the deep sea. <i>ICES Journal of Marine Science</i> , 2018, 75, 113-121.	2.5	7
118	Interacting forces of predation and fishing affect species' maturation size. <i>Ecology and Evolution</i> , 2020, 10, 14033-14051.	1.9	7
119	Community size structure varies with predator-prey size relationships and temperature across Australian reefs. <i>Ecology and Evolution</i> , 2022, 12, e8789.	1.9	6
120	Changes in the size-structure of a multispecies pelagic fishery off Northern Chile. <i>Fisheries Research</i> , 2015, 161, 261-268.	1.7	5
121	Reef communities show predictable undulations in linear abundance size spectra from copepods to sharks. <i>Ecology Letters</i> , 2021, 24, 2146-2154.	6.4	5
122	Exploring trade-offs in mixed fisheries by integrating fleet dynamics into multispecies size-spectrum models. <i>Journal of Applied Ecology</i> , 0, , .	4.0	4
123	The effects of trawling and primary production on size-structured food webs in seabed ecosystems. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020, 77, 1659-1665.	1.4	1
124	Reply to "Whaling catch data are not reliable for analyses of body size shifts". <i>Nature Ecology and Evolution</i> , 2018, 2, 757-758.	7.8	0
125	Marine Systems, Food Security, and Future Earth. , 0, , 296-310.		0