

# Brice X Semmens

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

5,491  
citations

186265

28  
h-index

168389

53  
g-index

60  
all docs

60  
docs citations

60  
times ranked

5572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporating uncertainty and prior information into stable isotope mixing models. <i>Ecology Letters</i> , 2008, 11, 470-480.	6.4	997
2	Best practices for use of stable isotope mixing models in food-web studies. <i>Canadian Journal of Zoology</i> , 2014, 92, 823-835.	1.0	873
3	Analyzing mixing systems using a new generation of Bayesian tracer mixing models. <i>PeerJ</i> , 2018, 6, e5096.	2.0	676
4	Bayesian stable isotope mixing models. <i>Environmetrics</i> , 2013, 24, 387-399.	1.4	519
5	Unifying error structures in commonly used biotracer mixing models. <i>Ecology</i> , 2016, 97, 2562-2569.	3.2	228
6	Monarch butterfly population decline in North America: identifying the threatening processes. <i>Royal Society Open Science</i> , 2017, 4, 170760.	2.4	191
7	Quantifying Inter- and Intra-Population Niche Variability Using Hierarchical Bayesian Stable Isotope Mixing Models. <i>PLoS ONE</i> , 2009, 4, e6187.	2.5	185
8	Quasi-extinction risk and population targets for the Eastern, migratory population of monarch butterflies ( <i>Danaus plexippus</i> ). <i>Scientific Reports</i> , 2016, 6, 23265.	3.3	179
9	A transnational monarch butterfly population model and implications for regional conservation priorities. <i>Ecological Entomology</i> , 2017, 42, 51-60.	2.2	150
10	Using Stable Isotope Analysis to Understand the Migration and Trophic Ecology of Northeastern Pacific White Sharks ( <i>Carcharodon carcharias</i> ). <i>PLoS ONE</i> , 2012, 7, e30492.	2.5	128
11	Including Source Uncertainty and Prior Information in the Analysis of Stable Isotope Mixing Models. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4645-4650.	10.0	103
12	Habitat structure determines resource use by zooplankton in temperate lakes. <i>Ecology Letters</i> , 2011, 14, 364-372.	6.4	101
13	Conservation and Management Applications of the Reef Volunteer Fish Monitoring Program. <i>Environmental Monitoring and Assessment</i> , 2003, 81, 43-50.	2.7	97
14	Observations of a Nassau grouper, <i>Epinephelus striatus</i> , Spawning Aggregation Site in Little Cayman, Cayman Islands, Including Multi-Species Spawning Information. <i>Environmental Biology of Fishes</i> , 2004, 70, 305-313.	1.0	94
15	Conservation and fisheries effects of spawning aggregation marine protected areas: What we know, where we should go, and what we need to get there. <i>ICES Journal of Marine Science</i> , 2014, 71, 1515-1534.	2.5	68
16	National Valuation of Monarch Butterflies Indicates an Untapped Potential for Incentive-Based Conservation. <i>Conservation Letters</i> , 2014, 7, 253-262.	5.7	67
17	Spatial ecology and conservation of <i>Manta birostris</i> in the Indo-Pacific. <i>Biological Conservation</i> , 2016, 200, 178-183.	4.1	63
18	A deconvolutional Bayesian mixing model approach for river basin sediment source apportionment. <i>Scientific Reports</i> , 2018, 8, 13073.	3.3	57

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19	Improving Bayesian isotope mixing models: a response to Jackson <i>et al.</i> (2009). <i>Ecology Letters</i> , 2009, 12, E6-8.	6.4	55
20	Phenotypic variation and selective mortality as major drivers of recruitment variability in fishes. <i>Ecology Letters</i> , 2014, 17, 743-755.	6.4	53
21	Methodological perspectives on the application of compound-specific stable isotope fingerprinting for sediment source apportionment. <i>Journal of Soils and Sediments</i> , 2017, 17, 1537-1553.	3.0	46
22	Quantifying ecosystem service flows at multiple scales across the range of a long-distance migratory species. <i>Ecosystem Services</i> , 2018, 31, 255-264.	5.4	42
23	Density estimates of monarch butterflies overwintering in central Mexico. <i>PeerJ</i> , 2017, 5, e3221.	2.0	40
24	Using areas-as-fleets selectivity to model spatial fishing: Asymptotic curves are unlikely under equilibrium conditions. <i>Fisheries Research</i> , 2014, 158, 15-25.	1.7	38
25	Comparing predictions of fisheries bycatch using multiple spatiotemporal species distribution model frameworks. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020, 77, 146-163.	1.4	36
26	Documenting recovery of a spawning aggregation through size frequency analysis from underwater laser calipers measurements. <i>Biological Conservation</i> , 2012, 155, 119-127.	4.1	35
27	Population Structure and Phylogeography in Nassau Grouper ( <i>Epinephelus striatus</i> ), a Mass-Aggregating Marine Fish. <i>PLoS ONE</i> , 2014, 9, e97508.	2.5	35
28	Recovery of critically endangered Nassau grouper ( <i>Epinephelus striatus</i> ) in the Cayman Islands following targeted conservation actions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1587-1595.	7.1	35
29	Merging Resource Availability with Isotope Mixing Models: The Role of Neutral Interaction Assumptions. <i>PLoS ONE</i> , 2011, 6, e22015.	2.5	26
30	The utility of spatial model-based estimators of unobserved bycatch. <i>ICES Journal of Marine Science</i> , 2019, 76, 255-267.	2.5	21
31	Hot moments in spawning aggregations: implications for ecosystem-scale nutrient cycling. <i>Coral Reefs</i> , 2015, 34, 19-23.	2.2	20
32	The rise in climate change-induced federal fishery disasters in the United States. <i>PeerJ</i> , 2021, 9, e11186.	2.0	20
33	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 April 2012 – 31 May 2012. <i>Molecular Ecology Resources</i> , 2012, 12, 972-974.	4.8	18
34	Demographic modeling of citizen science data informs habitat preferences and population dynamics of recovering fishes. <i>Ecology</i> , 2014, 95, 3251-3258.	3.2	18
35	Analyzing large-scale conservation interventions with Bayesian hierarchical models: a case study of supplementing threatened Pacific salmon. <i>Ecology and Evolution</i> , 2015, 5, 2115-2125.	1.9	14
36	Triennial migration and philopatry in the critically endangered soupfin shark <i>Galeorhinus galeus</i> . <i>Journal of Applied Ecology</i> , 2021, 58, 1570-1582.	4.0	14

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37	Interpreting Space Use and Behavior of Blue Tang, <i>Acanthurus coeruleus</i> , in the Context of Habitat, Density, and Intra-specific Interactions. <i>Environmental Biology of Fishes</i> , 2005, 74, 99-107.	1.0	12
38	Pattern in the Co-occurrence of Fishes Inhabiting the Coral Reefs of Bonaire, Netherlands Antilles. <i>Environmental Biology of Fishes</i> , 2005, 74, 187-194.	1.0	12
39	Patterns of color phase indicate spawn timing at a Nassau grouper <i>Epinephelus striatus</i> spawning aggregation. <i>Environmental Epigenetics</i> , 2012, 58, 73-83.	1.8	12
40	Impacts of recently implemented recreational fisheries regulations on the Commercial Passenger Fishing Vessel fishery for <i>Paralabrax</i> sp. in California. <i>Marine Policy</i> , 2017, 86, 134-143.	3.2	12
41	Flexible risk metrics for identifying and monitoring conservation-priority species. <i>Ecological Indicators</i> , 2016, 61, 683-692.	6.3	11
42	Long-term participation in collaborative fisheries research improves angler opinions on marine protected areas. <i>PeerJ</i> , 2020, 8, e10146.	2.0	11
43	Using Ecological Null Models to Assess the Potential for Marine Protected Area Networks to Protect Biodiversity. <i>PLoS ONE</i> , 2010, 5, e8895.	2.5	10
44	Allele-Specific Expression and Evolution of Gene Regulation Underlying Acute Heat Stress Response and Local Adaptation in the Copepod <i>Tigriopus californicus</i> . <i>Journal of Heredity</i> , 2020, 111, 539-547.	2.4	9
45	Incorporating Human and Ecological Communities in Marine Conservation: an Alternative to Zacharias and Roff. <i>Conservation Biology</i> , 2001, 15, 1452-1455.	4.7	8
46	A Bayesian nested patch occupancy model to estimate steelhead movement and abundance. <i>Ecological Applications</i> , 2020, 30, e02202.	3.8	7
47	Pulse recruitment and recovery of Cayman Islands Nassau Grouper ( <i>Epinephelus striatus</i> ) spawning aggregations revealed by in situ length-frequency data. <i>ICES Journal of Marine Science</i> , 2021, 78, 277-292.	2.5	6
48	Fisheries Surveys Are Essential Ocean Observing Programs in a Time of Global Change: A Synthesis of Oceanographic and Ecological Data From U.S. West Coast Fisheries Surveys. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	6
49	Long-Term Dynamics in Trophic-Sizes of Pelagic and Coastal Pelagic Fishes among California Recreational Fisheries (1966-2013). <i>Transactions of the American Fisheries Society</i> , 2016, 145, 977-989.	1.4	5
50	Ocean Productivity May Predict Recruitment of the Rainbow Wrasse ( <i>Coris julis</i> ). <i>PLoS ONE</i> , 2016, 11, e0165648.	2.5	5
51	Incorporating Human and Ecological Communities in Marine Conservation: an Alternative to Zacharias and Roff. <i>Conservation Biology</i> , 2001, 15, 1452-1455.	4.7	4
52	Effects of Multiple Levels of Social Organization on Survival and Abundance. <i>Conservation Biology</i> , 2010, 25, no-no.	4.7	4
53	Grouper source levels and aggregation dynamics inferred from passive acoustic localization at a multispecies spawning site. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 3052-3065.	1.1	2
54	Development and evaluation of a passive acoustic localization method to monitor fish spawning aggregations and measure source levels. , 2019, , .		1

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55	Modeling the past, present, and future distributions of endangered white abalone ( <i>Haliotis sorenseni</i> ) to inform recovery efforts in California. PLoS ONE, 2021, 16, e0259716.	2.5	1
56	FishSense: Underwater RGBD Imaging for Fish Measurement. , 2021, , .		1
57	The effect of sea surface temperature on the structure and connectivity of species landings interaction networks in a multispecies recreational fishery.. Canadian Journal of Fisheries and Aquatic Sciences, 0, , .	1.4	0