

Stephan B Munch

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

3,520
citations

304743

22
h-index

265206

42
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docs citations

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times ranked

4130
citing authors

#	ARTICLE	IF	CITATIONS
1	Applying empirical dynamic modeling to distinguish abiotic and biotic drivers of population fluctuations in sympatric fishes. <i>Limnology and Oceanography</i> , 2022, 67, .	3.1	5
2	An empirical dynamic modeling framework for missing or irregular samples. <i>Ecological Modelling</i> , 2022, 468, 109948.	2.5	4
3	Recurrent neural networks for partially observed dynamical systems. <i>Physical Review E</i> , 2022, 105, 044205.	2.1	7
4	Comments on identifying causal relationships in nonlinear dynamical systems via empirical mode decomposition. <i>Nature Communications</i> , 2022, 13, .	12.8	2
5	Chaos is not rare in natural ecosystems. <i>Nature Ecology and Evolution</i> , 2022, 6, 1105-1111.	7.8	39
6	Forecasting in the face of ecological complexity: Number and strength of species interactions determine forecast skill in ecological communities. <i>Ecology Letters</i> , 2022, 25, 1974-1985.	6.4	12
7	Leveraging spatial information to forecast nonlinear ecological dynamics. <i>Methods in Ecology and Evolution</i> , 2021, 12, 266-279.	5.2	8
8	Ecosystem based multi-species management using Empirical Dynamic Programming. <i>Ecological Modelling</i> , 2021, 441, 109423.	2.5	14
9	Environmental variability and fishing effects on the Pacific sardine fisheries in the Gulf of California. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 623-630.	1.4	10
10	A latitudinal gradient in thermal transgenerational plasticity and a test of theory. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210797.	2.6	6
11	Interaction network structure and spatial patterns influence invasiveness and invasibility in a stochastic model of plant communities. <i>Oikos</i> , 2021, 130, 2040-2052.	2.7	1
12	Hidden similarities in the dynamics of a weakly synchronous marine metapopulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 479-485.	7.1	12
13	Frequently asked questions about nonlinear dynamics and empirical dynamic modelling. <i>ICES Journal of Marine Science</i> , 2020, 77, 1463-1479.	2.5	32
14	Circularity in fisheries data weakens real world prediction. <i>Scientific Reports</i> , 2020, 10, 6977.	3.3	5
15	Trophic control changes with season and nutrient loading in lakes. <i>Ecology Letters</i> , 2020, 23, 1287-1297.	6.4	33
16	Structured priors for sparse probability vectors with application to model selection in Markov chains. <i>Statistics and Computing</i> , 2019, 29, 1077-1093.	1.5	5
17	The intrinsic predictability of ecological time series and its potential to guide forecasting. <i>Ecological Monographs</i> , 2019, 89, e01359.	5.4	74
18	Trait variation in extreme thermal environments under constant and fluctuating temperatures. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180177.	4.0	27

#	ARTICLE	IF	CITATIONS
19	Maternal diet and age alter direct and indirect relationships between life-history traits across multiple generations. <i>Functional Ecology</i> , 2019, 33, 491-502.	3.6	7
20	Nonlinear dynamics and noise in fisheries recruitment: A global meta-analysis. <i>Fish and Fisheries</i> , 2018, 19, 964-973.	5.3	54
21	Estimating partial regulation in spatiotemporal models of community dynamics. <i>Ecology</i> , 2017, 98, 1277-1289.	3.2	16
22	Combining functional data with hierarchical Gaussian process models. <i>Environmental and Ecological Statistics</i> , 2017, 24, 175-199.	3.5	4
23	Predicting life history parameters for all fishes worldwide. <i>Ecological Applications</i> , 2017, 27, 2262-2276.	3.8	136
24	Circumventing structural uncertainty: A Bayesian perspective on nonlinear forecasting for ecology. <i>Ecological Complexity</i> , 2017, 32, 134-143.	2.9	30
25	Tradeoffs between accuracy and interpretability in von Bertalanffy random effects models of growth. <i>Ecological Applications</i> , 2016, 26, 1535-1552.	3.8	17
26	Why do larger mothers produce larger offspring? A test of classic theory. <i>Ecology</i> , 2016, 97, 3452-3459.	3.2	18
27	Tracking and forecasting ecosystem interactions in real time. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152258.	2.6	185
28	Local adaptation in transgenerational responses to predators. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152271.	2.6	65
29	Avoiding tipping points in fisheries management through Gaussian process dynamic programming. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141631.	2.6	29
30	Does Reproductive Investment Decrease Telomere Length in <i>Menidia menidia</i> ?. <i>PLoS ONE</i> , 2015, 10, e0125674.	2.5	18
31	Determining Individual Variation in Growth and Its Implication for Life-History and Population Processes Using the Empirical Bayes Method. <i>PLoS Computational Biology</i> , 2014, 10, e1003828.	3.2	61
32	A Bayesian approach to identifying and compensating for model misspecification in population models. <i>Ecology</i> , 2014, 95, 329-341.	3.2	44
33	Non-genetic inheritance and changing environments. <i>Non-Genetic Inheritance</i> , 2013, 1, .	0.8	113
34	A semiparametric Bayesian approach to estimating maximum reproductive rates at low population sizes. , 2013, 23, 699-709.		9
35	Predicting climate effects on Pacific sardine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6430-6435.	7.1	164
36	Model-free forecasting outperforms the correct mechanistic model for simulated and experimental data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5253-5257.	7.1	122

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37	A semiparametric Bayesian method for detecting Allee effects. <i>Ecology</i> , 2013, 94, 1196-1204.	3.2	9
38	Detecting Causality in Complex Ecosystems. <i>Science</i> , 2012, 338, 496-500.	12.6	1,545
39	Thermal reaction norms for growth vary among cohorts of Pacific cod (<i>Gadus macrocephalus</i>). <i>Marine Biology</i> , 2012, 159, 2173-2183.	1.5	28
40	Thermal legacies: transgenerational effects of temperature on growth in a vertebrate. <i>Ecology Letters</i> , 2012, 15, 159-163.	6.4	278
41	EXTREME SELECTION ON SIZE IN THE EARLY LIVES OF FISH. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, no-no.	2.3	86
42	Bayesian nonparametric analysis of stock–recruitment relationships. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2005, 62, 1808-1821.	1.4	51
43	RAPID GROWTH RESULTS IN INCREASED SUSCEPTIBILITY TO PREDATION IN <i>MENIDIA MENIDIA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2119-2127.	2.3	121
44	RAPID GROWTH RESULTS IN INCREASED SUSCEPTIBILITY TO PREDATION IN <i>MENIDIA MENIDIA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2119.	2.3	14