

George Sugihara

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.

53
papers

7,401
citations

26
h-index

58
g-index

58
ext. papers

9,129
ext. citations

12.5
avg, IF

5.83
L-index

#	Paper	IF	Citations
53	Early-warning signals for critical transitions. <i>Nature</i> , 2009 , 461, 53-9	50.4	2460
52	Nonlinear forecasting as a way of distinguishing chaos from measurement error in time series. <i>Nature</i> , 1990 , 344, 734-41	50.4	1320
51	Detecting causality in complex ecosystems. <i>Science</i> , 2012 , 338, 496-500	33.3	997
50	Cats protecting birds: modelling the mesopredator release effect. <i>Journal of Animal Ecology</i> , 1999 , 68, 282-292	4.7	243
49	Rabbits killing birds: modelling the hyperpredation process. <i>Journal of Animal Ecology</i> , 2000 , 69, 154-164	4.7	177
48	Equation-free mechanistic ecosystem forecasting using empirical dynamic modeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1569-76	11.5	172
47	Generalized theorems for nonlinear state space reconstruction. <i>PLoS ONE</i> , 2011 , 6, e18295	3.7	172
46	Global environmental drivers of influenza. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13081-13086	11.5	156
45	Inferring causation from time series in Earth system sciences. <i>Nature Communications</i> , 2019 , 10, 2553	17.4	153
44	Distinguishing time-delayed causal interactions using convergent cross mapping. <i>Scientific Reports</i> , 2015 , 5, 14750	4.9	152
43	Episodic fluctuations in larval supply. <i>Science</i> , 1999 , 283, 1528-30	33.3	133
42	Predicting climate effects on Pacific sardine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6430-5	11.5	128
41	Spatial convergent cross mapping to detect causal relationships from short time series. <i>Ecology</i> , 2015 , 96, 1174-81	4.6	119
40	Tracking and forecasting ecosystem interactions in real time. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	106
39	Fluctuating interaction network and time-varying stability of a natural fish community. <i>Nature</i> , 2018 , 554, 360-363	50.4	102
38	Climate-driven changes in abundance and distribution of larvae of oceanic fishes in the southern California region. <i>Global Change Biology</i> , 2009 , 15, 2137-2152	11.4	92
37	Causal feedbacks in climate change. <i>Nature Climate Change</i> , 2015 , 5, 445-448	21.4	79

36	MODELING THE BIOLOGICAL CONTROL OF AN ALIEN PREDATOR TO PROTECT ISLAND SPECIES FROM EXTINCTION 1999 , 9, 112-123		73
35	Information leverage in interconnected ecosystems: Overcoming the curse of dimensionality. <i>Science</i> , 2016 , 353, 922-5	33.3	70
34	Complex dynamics may limit prediction in marine fisheries. <i>Fish and Fisheries</i> , 2014 , 15, 616-633	6	64
33	Dynamical evidence for causality between galactic cosmic rays and interannual variation in global temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3253-6	11.5	55
32	Predicting coastal algal blooms in southern California. <i>Ecology</i> , 2017 , 98, 1419-1433	4.6	43
31	Effects of taxonomic and trophic aggregation on food web properties. <i>Oecologia</i> , 1997 , 112, 272-284	2.9	39
30	Short-term effects of multiple outdoor environmental factors on risk of asthma exacerbations: Age-stratified time-series analysis. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 144, 1542-1550.e1	11.5	38
29	Nonlinear dynamics and noise in fisheries recruitment: A global meta-analysis. <i>Fish and Fisheries</i> , 2018 , 19, 964-973	6	34
28	Inter-outbreak stability reflects the size of the susceptible pool and forecasts magnitudes of seasonal epidemics. <i>Nature Communications</i> , 2019 , 10, 2374	17.4	20
27	Elevated nonlinearity as an indicator of shifts in the dynamics of populations under stress. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	18
26	Regularized S-map for inference and forecasting with noisy ecological time series. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 650-660	7.7	18
25	Nonparametric forecasting outperforms parametric methods for a simulated multispecies system. <i>Ecology</i> , 2013 , 94, 794-800	4.6	16
24	Synchronization and causality across time scales in El Niño Southern Oscillation. <i>Npj Climate and Atmospheric Science</i> , 2018 , 1,	8	15
23	A nonlinear, low data requirement model for producing spatially explicit fishery forecasts. <i>Fisheries Oceanography</i> , 2014 , 23, 45-53	2.4	11
22	Red/blue chaotic power spectra. <i>Nature</i> , 1996 , 381, 198-9	50.4	11
21	Frequently asked questions about nonlinear dynamics and empirical dynamic modelling. <i>ICES Journal of Marine Science</i> , 2020 , 77, 1463-1479	2.7	11
20	Reply to Baskerville and Cobey: Misconceptions about causation with synchrony and seasonal drivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2272-E2274	11.5	10
19	Long-term warming destabilizes aquatic ecosystems through weakening biodiversity-mediated causal networks. <i>Global Change Biology</i> , 2020 , 26, 6413-6423	11.4	10

18	Ecosystem-based forecasts of recruitment in two menhaden species. <i>Fish and Fisheries</i> , 2018 , 19, 769-786		8
17	Infections of Wolbachia may destabilize mosquito population dynamics. <i>Journal of Theoretical Biology</i> , 2017 , 428, 98-105	2.3	5
16	Reply to Luo et al.: Robustness of causal effects of galactic cosmic rays on interannual variation in global temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4640-1	11.5	5
15	Circularity in fisheries data weakens real world prediction. <i>Scientific Reports</i> , 2020 , 10, 6977	4.9	2
14	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	2.4	2
13	Tracking changes in behavioural dynamics using prediction error. <i>PLoS ONE</i> , 2021 , 16, e0251053	3.7	2
12	Assessing the predictability of nonlinear dynamics under smooth parameter changes. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190627	4.1	1
11	Comprehensive incentives for reducing Chinook salmon bycatch in the Bering Sea walleye Pollock fishery: Individual tradable encounter credits. <i>Regional Studies in Marine Science</i> , 2018 , 22, 70-81	1.5	1
10	Networks of Causal Linkage Between Eigenmodes Characterize Behavioral Dynamics of <i>Caenorhabditis elegans</i> . <i>PLoS Computational Biology</i> , 2021 , 17, e1009329	5	1
9	Susceptible host availability modulates climate effects on dengue dynamics. <i>Ecology Letters</i> , 2021 , 24, 415-425	10	0
8	Dynamics of Florida milk production and total phosphate in Lake Okeechobee. <i>PLoS ONE</i> , 2021 , 16, e0248910	3.7	0
7	Causation inference in complicated atmospheric environment.. <i>Environmental Pollution</i> , 2022 , 119057	9.3	0
6	Hirata's stability analysis defended. <i>International Journal of Systems Science</i> , 1987 , 18, 1391-1393	2.3	
5	The importance of making testable predictions: A cautionary tale. <i>PLoS ONE</i> , 2020 , 15, e0236541	3.7	
4	The importance of making testable predictions: A cautionary tale 2020 , 15, e0236541		
3	The importance of making testable predictions: A cautionary tale 2020 , 15, e0236541		
2	The importance of making testable predictions: A cautionary tale 2020 , 15, e0236541		
1	The importance of making testable predictions: A cautionary tale 2020 , 15, e0236541		

