George Sugihara

List of Publications by Year in Descending Order

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	Causation inference in complicated atmospheric environment.. *Environmental Pollution*, **2022**, 119057	9.3	0
52	Environmental variability and fishing effects on the Pacific sardine fisheries in the Gulf of California. *Canadian Journal of Fisheries and Aquatic Sciences*, **2021**, 78, 623-630	2.4	2
51	Tracking changes in behavioural dynamics using prediction error. *PLoS ONE*, **2021**, 16, e0251053	3.7	2
50	Susceptible host availability modulates climate effects on dengue dynamics. *Ecology Letters*, **2021**, 24, 415-425	10	0
49	Dynamics of Florida milk production and total phosphate in Lake Okeechobee. *PLoS ONE*, **2021**, 16, e0248910	3.7	0
48	Networks of Causal Linkage Between Eigenmodes Characterize Behavioral Dynamics of Caenorhabditis elegans. *PLoS Computational Biology*, **2021**, 17, e1009329	5	1
47	Assessing the predictability of nonlinear dynamics under smooth parameter changes. *Journal of the Royal Society Interface*, **2020**, 17, 20190627	4.1	1
46	The importance of making testable predictions: A cautionary tale. *PLoS ONE*, **2020**, 15, e0236541	3.7	
45	Frequently asked questions about nonlinear dynamics and empirical dynamic modelling. *ICES Journal of Marine Science*, **2020**, 77, 1463-1479	2.7	11
44	Circularity in fisheries data weakens real world prediction. *Scientific Reports*, **2020**, 10, 6977	4.9	2
43	Long-term warming destabilizes aquatic ecosystems through weakening biodiversity-mediated causal networks. *Global Change Biology*, **2020**, 26, 6413-6423	11.4	10
42	The importance of making testable predictions: A cautionary tale **2020**, 15, e0236541		
41	The importance of making testable predictions: A cautionary tale **2020**, 15, e0236541		
40	The importance of making testable predictions: A cautionary tale **2020**, 15, e0236541		
39	The importance of making testable predictions: A cautionary tale **2020**, 15, e0236541		
38	Short-term effects of multiple outdoor environmental factors on risk of asthma exacerbations: Age-stratified time-series analysis. *Journal of Allergy and Clinical Immunology*, **2019**, 144, 1542-1550.e1	11.5	38
37	Inferring causation from time series in Earth system sciences. *Nature Communications*, **2019**, 10, 2553	17.4	153

36	Inter-outbreak stability reflects the size of the susceptible pool and forecasts magnitudes of seasonal epidemics. *Nature Communications*, **2019**, 10, 2374	17.4	20
35	Regularized S-map for inference and forecasting with noisy ecological time series. *Methods in Ecology and Evolution*, **2019**, 10, 650-660	7.7	18
34	Fluctuating interaction network and time-varying stability of a natural fish community. *Nature*, **2018**, 554, 360-363	50.4	102
33	Nonlinear dynamics and noise in fisheries recruitment: A global meta-analysis. *Fish and Fisheries*, **2018**, 19, 964-973	6	34
32	Synchronization and causality across time scales in El Niño Southern Oscillation. *Npj Climate and Atmospheric Science*, **2018**, 1,	8	15
31	Ecosystem-based forecasts of recruitment in two menhaden species. *Fish and Fisheries*, **2018**, 19, 769-781	6	8
30	Comprehensive incentives for reducing Chinook salmon bycatch in the Bering Sea walleye Pollock fishery: Individual tradable encounter credits. *Regional Studies in Marine Science*, **2018**, 22, 70-81	1.5	1
29	Elevated nonlinearity as an indicator of shifts in the dynamics of populations under stress. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	18
28	Infections of Wolbachia may destabilize mosquito population dynamics. *Journal of Theoretical Biology*, **2017**, 428, 98-105	2.3	5
27	Predicting coastal algal blooms in southern California. *Ecology*, **2017**, 98, 1419-1433	4.6	43
26	Reply to Baskerville and Cobey: Misconceptions about causation with synchrony and seasonal drivers. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2272-E2274	11.5	10
25	Information leverage in interconnected ecosystems: Overcoming the curse of dimensionality. *Science*, **2016**, 353, 922-5	33.3	70
24	Global environmental drivers of influenza. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13081-13086	11.5	156
23	Tracking and forecasting ecosystem interactions in real time. *Proceedings of the Royal Society B: Biological Sciences*, **2016**, 283,	4.4	106
22	Causal feedbacks in climate change. *Nature Climate Change*, **2015**, 5, 445-448	21.4	79
21	Equation-free mechanistic ecosystem forecasting using empirical dynamic modeling. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1569-76	11.5	172
20	Reply to Luo et al.: Robustness of causal effects of galactic cosmic rays on interannual variation in global temperature. *Proceedings of the National Academy of Sciences of the United States of America* , **2015**, 112, E4640-1	11.5	5
19	Distinguishing time-delayed causal interactions using convergent cross mapping. *Scientific Reports*, **2015**, 5, 14750	4.9	152

18	Dynamical evidence for causality between galactic cosmic rays and interannual variation in global temperature. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3253-6	11.5	55
17	Spatial convergent cross mapping to detect causal relationships from short time series. *Ecology*, **2015**, 96, 1174-81	4.6	119
16	Complex dynamics may limit prediction in marine fisheries. *Fish and Fisheries*, **2014**, 15, 616-633	6	64
15	A nonlinear, low data requirement model for producing spatially explicit fishery forecasts. *Fisheries Oceanography*, **2014**, 23, 45-53	2.4	11
14	Nonparametric forecasting outperforms parametric methods for a simulated multispecies system. *Ecology*, **2013**, 94, 794-800	4.6	16
13	Predicting climate effects on Pacific sardine. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6430-5	11.5	128
12	Detecting causality in complex ecosystems. *Science*, **2012**, 338, 496-500	33.3	997
11	Generalized theorems for nonlinear state space reconstruction. *PLoS ONE*, **2011**, 6, e18295	3.7	172
10	Climate-driven changes in abundance and distribution of larvae of oceanic fishes in the southern California region. *Global Change Biology*, **2009**, 15, 2137-2152	11.4	92
9	Early-warning signals for critical transitions. *Nature*, **2009**, 461, 53-9	50.4	2460
8	Rabbits killing birds: modelling the hyperpredation process. *Journal of Animal Ecology*, **2000**, 69, 154-164	4.7	177
7	Cats protecting birds: modelling the mesopredator release effect. *Journal of Animal Ecology*, **1999**, 68, 282-292	4.7	243
6	MODELING THE BIOLOGICAL CONTROL OF AN ALIEN PREDATOR TO PROTECT ISLAND SPECIES FROM EXTINCTION **1999**, 9, 112-123		73
5	Episodic fluctuations in larval supply. *Science*, **1999**, 283, 1528-30	33.3	133
4	Effects of taxonomic and trophic aggregation on food web properties. *Oecologia*, **1997**, 112, 272-284	2.9	39
3	Red/blue chaotic power spectra. *Nature*, **1996**, 381, 198-9	50.4	11
2	Nonlinear forecasting as a way of distinguishing chaos from measurement error in time series. *Nature*, **1990**, 344, 734-41	50.4	1320
1	Hiratas stability analysis defended. *International Journal of Systems Science*, **1987**, 18, 1391-1393	2.3	