

Vasilis Dakos

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

12,762
citations

101543

36
h-index

114465

63
g-index

72
all docs

72
docs citations

72
times ranked

11813
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological resilience: what to measure and how. <i>Environmental Research Letters</i> , 2022, 17, 043003.	5.2	45
2	Social-ecological connections across land, water, and sea demand a reprioritization of environmental management. <i>Elementa</i> , 2022, 10, .	3.2	6
3	A resilience sensing system for the biosphere. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, .	4.0	6
4	Emerging signals of declining forest resilience under climate change. <i>Nature</i> , 2022, 608, 534-539.	27.8	132
5	Mapping the distinct origins of bimodality in a classic model with alternative stable states. <i>Theoretical Ecology</i> , 2021, 14, 673-684.	1.0	3
6	Regime Shifts and Tipping Points. , 2021, , .		0
7	Adaptive Evolution Can Both Prevent Ecosystem Collapse and Delay Ecosystem Recovery. <i>American Naturalist</i> , 2021, 198, E185-E197.	2.1	9
8	Are geochemical regime shifts identifiable in river waters? Exploring the compositional dynamics of the Tiber River (Italy). <i>Science of the Total Environment</i> , 2021, 785, 147268.	8.0	13
9	Probabilistic early warning signals. <i>Ecology and Evolution</i> , 2021, 11, 14101-14114.	1.9	5
10	Submerged macrophytes affect the temporal variability of aquatic ecosystems. <i>Freshwater Biology</i> , 2021, 66, 421-435.	2.4	11
11	Foreseeing the future of mutualistic communities beyond collapse. <i>Ecology Letters</i> , 2020, 23, 2-15.	6.4	37
12	Nature's dynamical complexity. <i>Nature Ecology and Evolution</i> , 2020, 4, 12-13.	7.8	7
13	Estimating the risk of species interaction loss in mutualistic communities. <i>PLoS Biology</i> , 2020, 18, e3000843.	5.6	13
14	Advancing our understanding of ecological stability. <i>Ecology Letters</i> , 2019, 22, 1349-1356.	6.4	147
15	The risk of threshold responses, tipping points, and cascading failures in pollination systems. <i>Biodiversity and Conservation</i> , 2019, 28, 3389-3406.	2.6	11
16	Regime shifts of Mediterranean forest carbon uptake and reduced resilience driven by multidecadal ocean surface temperatures. <i>Global Change Biology</i> , 2019, 25, 2825-2840.	9.5	22
17	Ecosystem tipping points in an evolving world. <i>Nature Ecology and Evolution</i> , 2019, 3, 355-362.	7.8	203
18	Unveiling dimensions of stability in complex ecological networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25714-25720.	7.1	64

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19	Canaries In A Coal Mine: Best-Indicator Species For Detecting Abrupt Community Shifts. , 2019, , .		0
20	Climate models predict increasing temperature variability in poor countries. <i>Science Advances</i> , 2018, 4, eaar5809.	10.3	287
21	Slow Recovery from Local Disturbances as an Indicator for Loss of Ecosystem Resilience. <i>Ecosystems</i> , 2018, 21, 141-152.	3.4	58
22	Identifying best-indicator species for abrupt transitions in multispecies communities. <i>Ecological Indicators</i> , 2018, 94, 494-502.	6.3	38
23	Early-Warning Signals of Individual Tree Mortality Based on Annual Radial Growth. <i>Frontiers in Plant Science</i> , 2018, 9, 1964.	3.6	117
24	Elevated nonlinearity as an indicator of shifts in the dynamics of populations under stress. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160845.	3.4	33
25	Rising variance and abrupt shifts of subfossil chironomids due to eutrophication in a deep sub-alpine lake. <i>Aquatic Ecology</i> , 2017, 51, 307-319.	1.5	13
26	Observed trends in the magnitude and persistence of monthly temperature variability. <i>Scientific Reports</i> , 2017, 7, 5940.	3.3	44
27	Vegetation recovery in tidal marshes reveals critical slowing down under increased inundation. <i>Nature Communications</i> , 2017, 8, 15811.	12.8	86
28	Measuring complexity to infer changes in the dynamics of ecological systems under stress. <i>Ecological Complexity</i> , 2017, 32, 144-155.	2.9	32
29	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , 2016, 44, 601-606.	0.9	73
30	Detecting the Collapse of Cooperation in Evolving Networks. <i>Scientific Reports</i> , 2016, 6, 30845.	3.3	15
31	Evaluating early-warning indicators of critical transitions in natural aquatic ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8089-E8095.	7.1	101
32	Heteroskedasticity as a leading indicator of desertification in spatially explicit data. <i>Ecology and Evolution</i> , 2015, 5, 2185-2192.	1.9	5
33	Principle 2 "Manage connectivity. , 2015, , 80-104.		21
34	Profit fluctuations signal eroding resilience of natural resources. <i>Ecological Economics</i> , 2015, 117, 12-21.	5.7	21
35	Hysteresis in an experimental phytoplankton population. <i>Oikos</i> , 2015, 124, 1617-1623.	2.7	13
36	Generic Indicators of Ecological Resilience: Inferring the Chance of a Critical Transition. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2015, 46, 145-167.	8.3	339

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37	Resilience indicators: prospects and limitations for early warnings of regime shifts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20130263.	4.0	349
38	A holistic view of marine regime shifts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20130279.	4.0	131
39	Early Warning Signals of Ecological Transitions: Methods for Spatial Patterns. <i>PLoS ONE</i> , 2014, 9, e92097.	2.5	286
40	Critical slowing down as early warning for the onset of collapse in mutualistic communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17546-17551.	7.1	171
41	Flickering as an early warning signal. <i>Theoretical Ecology</i> , 2013, 6, 309-317.	1.0	81
42	Estimating the tolerance of species to the effects of global environmental change. <i>Nature Communications</i> , 2013, 4, 2350.	12.8	49
43	Early warning signals also precede non-catastrophic transitions. <i>Oikos</i> , 2013, 122, 641-648.	2.7	184
44	Living dangerously on borrowed time during slow, unrecognized regime shifts. <i>Trends in Ecology and Evolution</i> , 2013, 28, 149-155.	8.7	301
45	Rapid succession of plant associations on the small ocean island of Mauritius at the onset of the Holocene. <i>Quaternary Science Reviews</i> , 2013, 68, 114-125.	3.0	33
46	Wang et al. reply. <i>Nature</i> , 2013, 498, E12-E13.	27.8	2
47	Robustness of variance and autocorrelation as indicators of critical slowing down. <i>Ecology</i> , 2012, 93, 264-271.	3.2	243
48	Detecting dynamical changes in nonlinear time series using locally linear state-space models. <i>Ecosphere</i> , 2012, 3, 1-15.	2.2	56
49	Flickering gives early warning signals of a critical transition to a eutrophic lake state. <i>Nature</i> , 2012, 492, 419-422.	27.8	440
50	Toward Principles for Enhancing the Resilience of Ecosystem Services. <i>Annual Review of Environment and Resources</i> , 2012, 37, 421-448.	13.4	844
51	Anticipating Critical Transitions. <i>Science</i> , 2012, 338, 344-348.	12.6	1,607
52	Does predator interference cause alternative stable states in multispecies communities?. <i>Theoretical Population Biology</i> , 2012, 82, 170-176.	1.1	1
53	Recovery rates reflect distance to a tipping point in a living system. <i>Nature</i> , 2012, 481, 357-359.	27.8	368
54	Early Detection of Ecosystem Regime Shifts: A Multiple Method Evaluation for Management Application. <i>PLoS ONE</i> , 2012, 7, e38410.	2.5	72

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55	Methods for Detecting Early Warnings of Critical Transitions in Time Series Illustrated Using Simulated Ecological Data. PLoS ONE, 2012, 7, e41010.	2.5	638
56	Slowing Down in Spatially Patterned Ecosystems at the Brink of Collapse. American Naturalist, 2011, 177, E153-E166.	2.1	203
57	Resonance of Plankton Communities with Temperature Fluctuations. American Naturalist, 2011, 178, E85-E95.	2.1	42
58	Are We Entering an Era of Concatenated Global Crises?. Ecology and Society, 2011, 16, .	2.3	73
59	Predicting microbial nitrogen pathways from basic principles. Environmental Microbiology, 2011, 13, 1477-1487.	3.8	43
60	Spatial correlation as leading indicator of catastrophic shifts. Theoretical Ecology, 2010, 3, 163-174.	1.0	255
61	EARLY WARNINGS FOR CATASTROPHIC SHIFTS IN ECOSYSTEMS: COMPARISON BETWEEN SPATIAL AND TEMPORAL INDICATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 315-321.	1.7	80
62	Interannual variability in species composition explained as seasonally entrained chaos. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2871-2880.	2.6	81
63	Early-warning signals for critical transitions. Nature, 2009, 461, 53-59.	27.8	3,286
64	Assessing the Ecological Integrity of a Major Transboundary Mediterranean River Based on Environmental Habitat Variables and Benthic Macroinvertebrates (Aosâ€Vjose River, Greeceâ€Albania). International Review of Hydrobiology, 2008, 93, 73-87.	0.9	16
65	Slowing down as an early warning signal for abrupt climate change. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14308-14312.	7.1	724
66	Longitudinal impacts of anthropogenic pressures on benthic macroinvertebrate assemblages in a large transboundary Mediterranean river during the low flow period. Clean - Soil, Air, Water, 2006, 34, 453-463.	0.6	31
67	Beyond bifurcation: using complex models to understand and predict abrupt climate change. Dynamics and Statistics of the Climate System, 0, , dzw004.	0.8	30