Vasilis Dakos

List of Publications by Year
in descending order

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	Early-warning signals for critical transitions. Nature, 2009, 461, 53-59.	27.8	3,286
2	Anticipating Critical Transitions. Science, 2012, 338, 344-348.	12.6	1,607
3	Toward Principles for Enhancing the Resilience of Ecosystem Services. Annual Review of Environment and Resources, 2012, 37, 421-448.	13.4	844
4	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
5	Methods for Detecting Early Warnings of Critical Transitions in Time Series Illustrated Using Simulated Ecological Data. PLoS ONE, 2012, 7, e41010.	2.5	638
6	Flickering gives early warning signals of a critical transition to a eutrophic lake state. Nature, 2012, 492, 419-422.	27.8	440
7	Recovery rates reflect distance to a tipping point in a living system. Nature, 2012, 481, 357-359.	27.8	368
8	Resilience indicators: prospects and limitations for early warnings of regime shifts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130263.	4.0	349
9	Generic Indicators of Ecological Resilience: Inferring the Chance of a Critical Transition. Annual Review of Ecology, Evolution, and Systematics, 2015, 46, 145-167.	8.3	339
10	Living dangerously on borrowed time during slow, unrecognized regime shifts. Trends in Ecology and Evolution, 2013, 28, 149-155.	8.7	301
11	Climate models predict increasing temperature variability in poor countries. Science Advances, 2018, 4, eaar5809.	10.3	287
12	Early Warning Signals of Ecological Transitions: Methods for Spatial Patterns. PLoS ONE, 2014, 9, e92097.	2.5	286
13	Spatial correlation as leading indicator of catastrophic shifts. Theoretical Ecology, 2010, 3, 163-174.	1.0	255
14	Robustness of variance and autocorrelation as indicators of critical slowing down. Ecology, 2012, 93, 264-271.	3.2	243
15	Slowing Down in Spatially Patterned Ecosystems at the Brink of Collapse. American Naturalist, 2011, 177, E153-E166.	2.1	203
16	Ecosystem tipping points in an evolving world. Nature Ecology and Evolution, 2019, 3, 355-362.	7.8	203
17	Early warning signals also precede nonâ€catastrophic transitions. Oikos, 2013, 122, 641-648.	2.7	184
18	Critical slowing down as early warning for the onset of collapse in mutualistic communities. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17546-17551.	7.1	171

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19	Advancing our understanding of ecological stability. Ecology Letters, 2019, 22, 1349-1356.	6.4	147
20	Emerging signals of declining forest resilience under climate change. Nature, 2022, 608, 534-539.	27.8	132
21	A holistic view of marine regime shifts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130279.	4.0	131
22	Early-Warning Signals of Individual Tree Mortality Based on Annual Radial Growth. Frontiers in Plant Science, 2018, 9, 1964.	3.6	117
23	Evaluating early-warning indicators of critical transitions in natural aquatic ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8089-E8095.	7.1	101
24	Vegetation recovery in tidal marshes reveals critical slowing down under increased inundation. Nature Communications, 2017, 8, 15811.	12.8	86
25	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
26	Flickering as an early warning signal. Theoretical Ecology, 2013, 6, 309-317.	1.0	81
27	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
28	Are We Entering an Era of Concatenated Global Crises?. Ecology and Society, 2011, 16, .	2.3	73
29	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. Critical Care Medicine, 2016, 44, 601-606.	0.9	73
30	Early Detection of Ecosystem Regime Shifts: A Multiple Method Evaluation for Management Application. PLoS ONE, 2012, 7, e38410.	2.5	72
31	Unveiling dimensions of stability in complex ecological networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25714-25720.	7.1	64
32	Slow Recovery from Local Disturbances as an Indicator for Loss of Ecosystem Resilience. Ecosystems, 2018, 21, 141-152.	3.4	58
33	Detecting dynamical changes in nonlinear time series using locally linear stateâ€space models. Ecosphere, 2012, 3, 1-15.	2.2	56
34	Estimating the tolerance of species to the effects of global environmental change. Nature Communications, 2013, 4, 2350.	12.8	49
35	Ecological resilience: what to measure and how. Environmental Research Letters, 2022, 17, 043003.	5.2	45
36	Observed trends in the magnitude and persistence of monthly temperature variability. Scientific Reports, 2017, 7, 5940.	3.3	44

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37	Predicting microbial nitrogen pathways from basic principles. Environmental Microbiology, 2011, 13, 1477-1487.	3.8	43
38	Resonance of Plankton Communities with Temperature Fluctuations. American Naturalist, 2011, 178, E85-E95.	2.1	42
39	Identifying best-indicator species for abrupt transitions in multispecies communities. Ecological Indicators, 2018, 94, 494-502.	6.3	38
40	Foreseeing the future of mutualistic communities beyond collapse. Ecology Letters, 2020, 23, 2-15.	6.4	37
41	Rapid succession of plant associations on the small ocean island of Mauritius at the onset of the Holocene. Quaternary Science Reviews, 2013, 68, 114-125.	3.0	33
42	Elevated nonlinearity as an indicator of shifts in the dynamics of populations under stress. Journal of the Royal Society Interface, 2017, 14, 20160845.	3.4	33
43	Measuring complexity to infer changes in the dynamics of ecological systems under stress. Ecological Complexity, 2017, 32, 144-155.	2.9	32
44	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
45	Beyond bifurcation: using complex models to understand and predict abrupt climate change. Dynamics and Statistics of the Climate System, 0, , dzw004.	0.8	30
46	Regime shifts of Mediterranean forest carbon uptake and reduced resilience driven by multidecadal ocean surface temperatures. Global Change Biology, 2019, 25, 2825-2840.	9.5	22
47	Principle 2 â€“ Manage connectivity. , 2015, , 80-104.		21
48	Profit fluctuations signal eroding resilience of natural resources. Ecological Economics, 2015, 117, 12-21.	5.7	21
49	Assessing the Ecological Integrity of a Major Transboundary Mediterranean River Based on Environmental Habitat Variables and Benthic Macroinvertebrates (Aoosâ€Vjose River, Greeceâ€Albania). International Review of Hydrobiology, 2008, 93, 73-87.	0.9	16
50	Detecting the Collapse of Cooperation in Evolving Networks. Scientific Reports, 2016, 6, 30845.	3.3	15
51	Hysteresis in an experimental phytoplankton population. Oikos, 2015, 124, 1617-1623.	2.7	13
52	Rising variance and abrupt shifts of subfossil chironomids due to eutrophication in a deep sub-alpine lake. Aquatic Ecology, 2017, 51, 307-319.	1.5	13
53	Estimating the risk of species interaction loss in mutualisticÂcommunities. PLoS Biology, 2020, 18, e3000843.	5.6	13
54	Are geochemical regime shifts identifiable in river waters? Exploring the compositional dynamics of the Tiber River (Italy). Science of the Total Environment, 2021, 785, 147268.	8.0	13

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55	The risk of threshold responses, tipping points, and cascading failures in pollination systems. Biodiversity and Conservation, 2019, 28, 3389-3406.	2.6	11
56	Submerged macrophytes affect the temporal variability of aquatic ecosystems. Freshwater Biology, 2021, 66, 421-435.	2.4	11
57	Adaptive Evolution Can Both Prevent Ecosystem Collapse and Delay Ecosystem Recovery. American Naturalist, 2021, 198, E185-E197.	2.1	9
58	Natureâ€™s dynamical complexity. Nature Ecology and Evolution, 2020, 4, 12-13.	7.8	7
59	Socialâ€“ecological connections across land, water, and sea demand a reprioritization of environmental management. Elementa, 2022, 10, .	3.2	6
60	A resilience sensing system for the biosphere. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, .	4.0	6
61	Heteroskedasticity as a leading indicator of desertification in spatially explicit data. Ecology and Evolution, 2015, 5, 2185-2192.	1.9	5
62	Probabilistic early warning signals. Ecology and Evolution, 2021, 11, 14101-14114.	1.9	5
63	Mapping the distinct origins of bimodality in a classic model with alternative stable states. Theoretical Ecology, 2021, 14, 673-684.	1.0	3
64	Wang et al. reply. Nature, 2013, 498, E12-E13.	27.8	2
65	Does predator interference cause alternative stable states in multispecies communities?. Theoretical Population Biology, 2012, 82, 170-176.	1.1	1
66	Regime Shifts and Tipping Points. , 2021, , .		0
67	Canaries In A Coal Mine: Best-Indicator Species For Detecting Abrupt Community Shifts. , 2019, , .		0