

Sonia Kefi

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

7,306
citations

94433

37
h-index

82547

72
g-index

88
all docs

88
docs citations

88
times ranked

8317
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial vegetation patterns and imminent desertification in Mediterranean arid ecosystems. <i>Nature</i> , 2007, 449, 213-217.	27.8	804
2	Methods for Detecting Early Warnings of Critical Transitions in Time Series Illustrated Using Simulated Ecological Data. <i>PLoS ONE</i> , 2012, 7, e41010.	2.5	638
3	The multilayer nature of ecological networks. <i>Nature Ecology and Evolution</i> , 2017, 1, 101.	7.8	383
4	The ecological and evolutionary implications of merging different types of networks. <i>Ecology Letters</i> , 2011, 14, 1170-1181.	6.4	332
5	Structure and Functioning of Dryland Ecosystems in a Changing World. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2016, 47, 215-237.	8.3	330
6	More than a mealâ€¦ integrating nonâ€¦feeding interactions into food webs. <i>Ecology Letters</i> , 2012, 15, 291-300.	6.4	320
7	The physics of higher-order interactions in complex systems. <i>Nature Physics</i> , 2021, 17, 1093-1098.	16.7	287
8	Early Warning Signals of Ecological Transitions: Methods for Spatial Patterns. <i>PLoS ONE</i> , 2014, 9, e92097.	2.5	286
9	Scalingâ€¦ biodiversityâ€¦ecosystem functioning research. <i>Ecology Letters</i> , 2020, 23, 757-776.	6.4	270
10	The ecological forecast horizon, and examples of its uses and determinants. <i>Ecology Letters</i> , 2015, 18, 597-611.	6.4	242
11	REVIEW: Predictive ecology in a changing world. <i>Journal of Applied Ecology</i> , 2015, 52, 1293-1310.	4.0	237
12	Slowing Down in Spatially Patterned Ecosystems at the Brink of Collapse. <i>American Naturalist</i> , 2011, 177, E153-E166.	2.1	203
13	Early warning signals also precede nonâ€¦catastrophic transitions. <i>Oikos</i> , 2013, 122, 641-648.	2.7	184
14	Network structure beyond food webs: mapping nonâ€¦trophic and trophic interactions on Chilean rocky shores. <i>Ecology</i> , 2015, 96, 291-303.	3.2	168
15	Predator traits determine food-web architecture across ecosystems. <i>Nature Ecology and Evolution</i> , 2019, 3, 919-927.	7.8	157
16	How Structured Is the Entangled Bank? The Surprisingly Simple Organization of Multiplex Ecological Networks Leads to Increased Persistence and Resilience. <i>PLoS Biology</i> , 2016, 14, e1002527.	5.6	154
17	Local facilitation, bistability and transitions in arid ecosystems. <i>Theoretical Population Biology</i> , 2007, 71, 367-379.	1.1	149
18	Advancing our understanding of ecological stability. <i>Ecology Letters</i> , 2019, 22, 1349-1356.	6.4	147

#	ARTICLE	IF	CITATIONS
19	Biogeography of global drylands. <i>New Phytologist</i> , 2021, 231, 540-558.	7.3	145
20	Plant spatial patterns identify alternative ecosystem multifunctionality states in global drylands. <i>Nature Ecology and Evolution</i> , 2017, 1, 3.	7.8	142
21	When can positive interactions cause alternative stable states in ecosystems?. <i>Functional Ecology</i> , 2016, 30, 88-97.	3.6	139
22	Robust scaling in ecosystems and the meltdown of patch size distributions before extinction. <i>Ecology Letters</i> , 2011, 14, 29-35.	6.4	92
23	Describe, understand and predict: why do we need networks in ecology?. <i>Functional Ecology</i> , 2016, 30, 1878-1882.	3.6	86
24	Vegetation recovery in tidal marshes reveals critical slowing down under increased inundation. <i>Nature Communications</i> , 2017, 8, 15811.	12.8	86
25	Dispersal strategies and spatial organization of vegetation in arid ecosystems. <i>Oikos</i> , 2008, 117, 1522-1532.	2.7	84
26	Bistability and regular spatial patterns in arid ecosystems. <i>Theoretical Ecology</i> , 2010, 3, 257-269.	1.0	73
27	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
28	Evolution of Local Facilitation in Arid Ecosystems. <i>American Naturalist</i> , 2008, 172, E1-E17.	2.1	60
29	Seeing the forest for the trees: Putting multilayer networks to work for community ecology. <i>Functional Ecology</i> , 2019, 33, 206-217.	3.6	57
30	Loss of predator species, not intermediate consumers, triggers rapid and dramatic extinction cascades. <i>Global Change Biology</i> , 2017, 23, 2962-2972.	9.5	54
31	mangal " making ecological network analysis simple. <i>Ecography</i> , 2016, 39, 384-390.	4.5	53
32	Vegetation pattern shift as a result of rising atmospheric CO2 in arid ecosystems. <i>Theoretical Population Biology</i> , 2008, 74, 332-344.	1.1	51
33	Ecology and evolution of facilitation among symbionts. <i>Nature Communications</i> , 2018, 9, 4869.	12.8	51
34	Aridity preferences alter the relative importance of abiotic and biotic drivers on plant species abundance in global drylands. <i>Journal of Ecology</i> , 2019, 107, 190-202.	4.0	51
35	Feedbacks between vegetation pattern and resource loss dramatically decrease ecosystem resilience and restoration potential in a simple dryland model. <i>Landscape Ecology</i> , 2013, 28, 931-942.	4.2	50
36	Prediction in ecology: promises, obstacles and clarifications. <i>Oikos</i> , 2018, 127, 171-183.	2.7	50

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37	Ecological resilience: what to measure and how. <i>Environmental Research Letters</i> , 2022, 17, 043003.	5.2	45
38	Local Facilitation May Cause Tipping Points on a Landscape Level Preceded by Early-Warning Indicators. <i>American Naturalist</i> , 2015, 186, E81-E90.	2.1	43
39	Comparing Direct Abiotic Amelioration and Facilitation as Tools for Restoration of Semiarid Grasslands. <i>Restoration Ecology</i> , 2009, 17, 908-916.	2.9	38
40	FORUM: Sustaining ecosystem functions in a changing world: a call for an integrated approach. <i>Journal of Applied Ecology</i> , 2013, 50, 1124-1130.	4.0	37
41	Can we infer plant facilitation from remote sensing? a test across global drylands. <i>Ecological Applications</i> , 2015, 25, 1456-1462.	3.8	35
42	Spatially heterogeneous pressure raises risk of catastrophic shifts. <i>Theoretical Ecology</i> , 2016, 9, 207-217.	1.0	33
43	Connectivity-Mediated Ecohydrological Feedbacks and Regime Shifts in Drylands. <i>Ecosystems</i> , 2019, 22, 1497-1511.	3.4	32
44	Effects of trophic similarity on community composition. <i>Ecology Letters</i> , 2014, 17, 1495-1506.	6.4	31
45	Scaling up biodiversityâ€ecosystem functioning relationships: the role of environmental heterogeneity in space and time. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202779.	2.6	24
46	The interplay between facilitation and habitat type drives spatial vegetation patterns in global drylands. <i>Ecography</i> , 2019, 42, 755-767.	4.5	23
47	Spatially heterogeneous stressors can alter the performance of indicators of regime shifts. <i>Ecological Indicators</i> , 2018, 94, 520-533.	6.3	20
48	Non-trophic interactions strengthen the diversityâ€functioning relationship in an ecological bioenergetic network model. <i>PLoS Computational Biology</i> , 2019, 15, e1007269.	3.2	19
49	A Continuum of Specialists and Generalists in Empirical Communities. <i>PLoS ONE</i> , 2015, 10, e0114674.	2.5	18
50	Nurse species and indirect facilitation through grazing drive plant community functional traits in tropical alpine peatlands. <i>Ecology and Evolution</i> , 2017, 7, 11265-11276.	1.9	18
51	Monitoring ecosystem degradation using spatial data and the R package spatialwarnings. <i>Methods in Ecology and Evolution</i> , 2018, 9, 2067-2075.	5.2	18
52	An Open-System Approach to Complex Biological Networks. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 619-640.	1.8	17
53	A framework for estimating species-specific contributions to community indicators. <i>Ecological Indicators</i> , 2019, 99, 74-82.	6.3	17
54	Plant nurse effects rely on combined hydrological and ecological components in a semiarid ecosystem. <i>Ecosphere</i> , 2016, 7, e01514.	2.2	16

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55	Merging community assembly into the regime-shift approach for informing ecological restoration. <i>Ecological Indicators</i> , 2018, 85, 991-998.	6.3	13
56	Geographical variation of multiplex ecological networks in marine intertidal communities. <i>Ecology</i> , 2020, 101, e03165.	3.2	12
57	Scaling up our understanding of tipping points. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, .	4.0	12
58	Positive plant–soil feedback trigger tannin evolution by niche construction: A spatial stoichiometric model. <i>Journal of Ecology</i> , 2020, 108, 378-391.	4.0	11
59	Trait selection during food web assembly: the roles of interactions and temperature. <i>Theoretical Ecology</i> , 2016, 9, 417-429.	1.0	10
60	Implications of being discrete and spatial for detecting early warning signals of regime shifts. <i>Ecological Indicators</i> , 2018, 94, 503-511.	6.3	10
61	Effects of indirect facilitation on functional diversity, dominance and niche differentiation in tropical alpine communities. <i>Journal of Vegetation Science</i> , 2018, 29, 835-846.	2.2	9
62	Advances in Understanding and Managing Catastrophic Ecosystem Shifts in Mediterranean Ecosystems. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	8
63	Identifying key-conservation areas for <i>Posidonia oceanica</i> seagrass beds. <i>Biological Conservation</i> , 2020, 247, 108546.	4.1	7
64	Biotic homogenisation in bird communities leads to large-scale changes in species associations. <i>Oikos</i> , 2022, 2022, .	2.7	7
65	Toward Multiplex Ecological Networks: Accounting for Multiple Interaction Types to Understand Community Structure and Dynamics. , 0, , 73-87.		6
66	Indirect facilitation drives species composition and stability in drylands. <i>Theoretical Ecology</i> , 2021, 14, 189-203.	1.0	5
67	Accumulated gain in a Prisoner's Dilemma: which game is carried out by the players?. <i>Animal Behaviour</i> , 2007, 74, e1-e6.	1.9	4
68	Mapping hotspots of potential ecosystem fragility using commonly available spatial data. <i>Biological Conservation</i> , 2020, 241, 108388.	4.1	3
69	Grazing and the vanishing complexity of plant association networks in grasslands. <i>Oikos</i> , 2021, 130, 541-552.	2.7	3
70	Spatial autocorrelation of local patch extinctions drives recovery dynamics in metacommunities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20220543.	2.6	3
71	Investigating patchiness of spatially organized ecosystems using field and simulated data. <i>Protocol Exchange</i> , 2007, , .	0.3	2
72	Timing recovery of ecosystems in sequential remotely sensed and simulated data. <i>Protocol Exchange</i> , 0, , .	0.3	2