

Katrin M Meyer

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,697
citations

304743

22
h-index

289244

40
g-index

46
all docs

46
docs citations

46
times ranked

2713
citing authors

#	ARTICLE	IF	CITATIONS
1	Empirical and theoretical challenges in aboveground–belowground ecology. <i>Oecologia</i> , 2009, 161, 1-14.	2.0	223
2	A review of the ecosystem functions in oil palm plantations, using forests as a reference system. <i>Biological Reviews</i> , 2017, 92, 1539-1569.	10.4	222
3	Reduction of rare soil microbes modifies plant–herbivore interactions. <i>Ecology Letters</i> , 2010, 13, 292-301.	6.4	176
4	Microbiology of the phyllosphere: a playground for testing ecological concepts. <i>Oecologia</i> , 2012, 168, 621-629.	2.0	112
5	Economic and ecological trade-offs of agricultural specialization at different spatial scales. <i>Ecological Economics</i> , 2016, 122, 111-120.	5.7	72
6	Community dynamics under environmental change: How can next generation mechanistic models improve projections of species distributions?. <i>Ecological Modelling</i> , 2016, 326, 63-74.	2.5	66
7	The rhythm of savanna patch dynamics. <i>Journal of Ecology</i> , 2007, 95, 1306-1315.	4.0	54
8	Spatial scales of interactions among bacteria and between bacteria and the leaf surface. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	2.7	50
9	Modeling microbial growth and dynamics. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8831-8846.	3.6	50
10	Multi-proxy evidence for competition between savanna woody species. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2008, 10, 63-72.	2.7	46
11	Land-use change in oil palm dominated tropical landscapes—An agent-based model to explore ecological and socio-economic trade-offs. <i>PLoS ONE</i> , 2018, 13, e0190506.	2.5	46
12	Big is not better: small <i>Acacia mellifera</i> shrubs are more vital after fire. <i>African Journal of Ecology</i> , 2005, 43, 131-136.	0.9	38
13	The <code>nlxr</code> package: A next-generation framework for reproducible NetLogo model analyses. <i>Methods in Ecology and Evolution</i> , 2019, 10, 1854-1863.	5.2	36
14	Spacing patterns of an <i>Acacia</i> tree in the Kalahari over a 61-year period: How clumped becomes regular and vice versa. <i>Acta Oecologica</i> , 2008, 33, 355-364.	1.1	35
15	Environmental heterogeneity predicts global species richness patterns better than area. <i>Global Ecology and Biogeography</i> , 2021, 30, 842-851.	5.8	32
16	SATCHMO: A spatial simulation model of growth, competition, and mortality in cycling savanna patches. <i>Ecological Modelling</i> , 2007, 209, 377-391.	2.5	31
17	Adaptive and Selective Seed Abortion Reveals Complex Conditional Decision Making in Plants. <i>American Naturalist</i> , 2014, 183, 376-383.	2.1	30
18	Patch dynamics integrate mechanisms for savanna tree–grass coexistence. <i>Basic and Applied Ecology</i> , 2009, 10, 491-499.	2.7	27

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19	Disentangling facilitation and seed dispersal from environmental heterogeneity as mechanisms generating associations between savanna plants. <i>Journal of Vegetation Science</i> , 2011, 22, 1038-1048.	2.2	27
20	Scaling methods in ecological modelling. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1368-1378.	5.2	27
21	Are savannas patch-dynamic systems? A landscape model. <i>Ecological Modelling</i> , 2009, 220, 3576-3588.	2.5	25
22	Long-term mortality patterns of the deep-rooted <i>Acacia erioloba</i> : The middle class shall die!. <i>Journal of Vegetation Science</i> , 2006, 17, 473-480.	2.2	24
23	<i>Heterodera schachtii</i> Nematodes Interfere with Aphid-Plant Relations on <i>Brassica oleracea</i> . <i>Journal of Chemical Ecology</i> , 2013, 39, 1193-1203.	1.8	24
24	How can we bring together empiricists and modellers in functional biodiversity research?. <i>Basic and Applied Ecology</i> , 2013, 14, 93-101.	2.7	24
25	Non-linear effects of pesticide application on biodiversity-driven ecosystem services and disservices in a cacao agroecosystem: A modeling study. <i>Basic and Applied Ecology</i> , 2013, 14, 115-125.	2.7	23
26	Long-term mortality patterns of the deep-rooted <i>Acacia erioloba</i> : The middle class shall die!. <i>Journal of Vegetation Science</i> , 2006, 17, 473.	2.2	21
27	The power of simulating experiments. <i>Ecological Modelling</i> , 2009, 220, 2594-2597.	2.5	20
28	Robustness and management adaptability in tropical rangelands: a viability-based assessment under the non-equilibrium paradigm. <i>Animal</i> , 2014, 8, 1272-1281.	3.3	19
29	Testing the Paradox of Enrichment along a Land Use Gradient in a Multitrophic Aboveground and Belowground Community. <i>PLoS ONE</i> , 2012, 7, e49034.	2.5	14
30	Production and Robustness of a Cacao Agroecosystem: Effects of Two Contrasting Types of Management Strategies. <i>PLoS ONE</i> , 2013, 8, e80352.	2.5	14
31	Quantifying the impact of above- and belowground higher trophic levels on plant and herbivore performance by modeling $>1</sup>$. <i>Oikos</i> , 2009, 118, 981-990.	2.7	13
32	Root-Lesion Nematodes Suppress Cabbage Aphid Population Development by Reducing Aphid Daily Reproduction. <i>Frontiers in Plant Science</i> , 2016, 7, 111.	3.6	12
33	How patch size and refuge availability change interaction strength and population dynamics: a combined individual- and population-based modeling experiment. <i>PeerJ</i> , 2017, 5, e2993.	2.0	11
34	PioLaG: a piosphere landscape generator for savanna rangeland modelling. <i>Landscape Ecology</i> , 2020, 35, 2061-2082.	4.2	9
35	Predicting population and community dynamics: The type of aggregation matters. <i>Basic and Applied Ecology</i> , 2010, 11, 563-571.	2.7	8
36	The role of biotic factors during plant establishment in novel communities assessed with an agent-based simulation model. <i>PeerJ</i> , 2018, 6, e5342.	2.0	7

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37	Efficiency of sample-based indices for spatial pattern recognition of wild pistachio (<i>Pistacia atlantica</i>) trees in semi-arid woodlands. <i>Journal of Forestry Research</i> , 2016, 27, 583-594.	3.6	5
38	Influence of seed size on performance of non-native annual plant species in a novel community at two planting densities. <i>Acta Oecologica</i> , 2018, 92, 131-137.	1.1	5
39	Crossing scales in ecology. <i>Basic and Applied Ecology</i> , 2010, 11, 561-562.	2.7	3
40	Idiosyncrasy in ecology – what's in a word?. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 431-433.	4.0	3
41	perspective: Learning new tricks from old trees: revisiting the savanna question. <i>Frontiers of Biogeography</i> , 2012, 2, .	1.8	3
42	EFForTS-LGraf: A landscape generator for creating smallholder-driven land-use mosaics. <i>PLoS ONE</i> , 2019, 14, e0222949.	2.5	3
43	Determining patch size. <i>African Journal of Ecology</i> , 2008, 46, 440-442.	0.9	2
44	Modeling Aboveground – Belowground Interactions. <i>Ecological Studies</i> , 2018, , 47-68.	1.2	0