

Valentin H Klaus

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

3,862
citations

186265
28
h-index

138484
58
g-index

67
all docs

67
docs citations

67
times ranked

5463
citing authors

#	ARTICLE	IF	CITATIONS
1	Land use intensification alters ecosystem multifunctionality via loss of biodiversity and changes to functional composition. <i>Ecology Letters</i> , 2015, 18, 834-843.	6.4	578
2	Biodiversity at multiple trophic levels is needed for ecosystem multifunctionality. <i>Nature</i> , 2016, 536, 456-459.	27.8	526
3	A quantitative index of land-use intensity in grasslands: Integrating mowing, grazing and fertilization. <i>Basic and Applied Ecology</i> , 2012, 13, 207-220.	2.7	325
4	Interannual variation in land-use intensity enhances grassland multidiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 308-313.	7.1	243
5	Direct and productivity-mediated indirect effects of fertilization, mowing and grazing on grassland species richness. <i>Journal of Ecology</i> , 2012, 100, 1391-1399.	4.0	212
6	Land-use intensity alters networks between biodiversity, ecosystem functions, and services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28140-28149.	7.1	164
7	Land use imperils plant and animal community stability through changes in asynchrony rather than diversity. <i>Nature Communications</i> , 2016, 7, 10697.	12.8	125
8	Locally rare species influence grassland ecosystem multifunctionality. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150269.	4.0	117
9	The results of biodiversity-ecosystem functioning experiments are realistic. <i>Nature Ecology and Evolution</i> , 2020, 4, 1485-1494.	7.8	93
10	Urban Grassland Restoration: A Neglected Opportunity for Biodiversity Conservation. <i>Restoration Ecology</i> , 2013, 21, 665-669.	2.9	85
11	Contrasting responses of above- and belowground diversity to multiple components of land-use intensity. <i>Nature Communications</i> , 2021, 12, 3918.	12.8	81
12	Grassland management intensification weakens the associations among the diversities of multiple plant and animal taxa. <i>Ecology</i> , 2015, 96, 1492-1501.	3.2	75
13	Permanent grasslands in Europe: Land use change and intensification decrease their multifunctionality. <i>Agriculture, Ecosystems and Environment</i> , 2022, 330, 107891.	5.3	72
14	A conceptual framework for urban ecological restoration and rehabilitation. <i>Basic and Applied Ecology</i> , 2021, 52, 82-94.	2.7	65
15	Plant functional trait shifts explain concurrent changes in the structure and function of grassland soil microbial communities. <i>Journal of Ecology</i> , 2019, 107, 2197-2210.	4.0	57
16	Evidence from the real world: ¹⁵ N natural abundances reveal enhanced nitrogen use at high plant diversity in Central European grasslands. <i>Journal of Ecology</i> , 2014, 102, 456-465.	4.0	55
17	Public attitudes toward biodiversity-friendly greenspace management in Europe. <i>Conservation Letters</i> , 2020, 13, e12718.	5.7	50
18	NIRS meets Ellenberg's indicator values: Prediction of moisture and nitrogen values of agricultural grassland vegetation by means of near-infrared spectral characteristics. <i>Ecological Indicators</i> , 2012, 14, 82-86.	6.3	49

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19	Nutrient concentrations and fibre contents of plant community biomass reflect species richness patterns along a broad range of land-use intensities among agricultural grasslands. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2011, 13, 287-295.	2.7	48
20	Will I stay or will I go? Plant species-specific response and tolerance to high land-use intensity in temperate grassland ecosystems. <i>Journal of Vegetation Science</i> , 2019, 30, 674-686.	2.2	45
21	Towards the development of general rules describing landscape heterogeneity-multifunctionality relationships. <i>Journal of Applied Ecology</i> , 2019, 56, 168-179.	4.0	42
22	Does organic grassland farming benefit plant and arthropod diversity at the expense of yield and soil fertility?. <i>Agriculture, Ecosystems and Environment</i> , 2013, 177, 1-9.	5.3	40
23	Above- and belowground biodiversity jointly tighten the P cycle in agricultural grasslands. <i>Nature Communications</i> , 2021, 12, 4431.	12.8	40
24	Patterns and potentials of plant species richness in high- and low-maintenance urban grasslands. <i>Applied Vegetation Science</i> , 2017, 20, 18-27.	1.9	39
25	Plant diversity moderates drought stress in grasslands: Implications from a large real-world study on 13C natural abundances. <i>Science of the Total Environment</i> , 2016, 566-567, 215-222.	8.0	35
26	Land use intensity, rather than plant species richness, affects the leaching risk of multiple nutrients from permanent grasslands. <i>Global Change Biology</i> , 2018, 24, 2828-2840.	9.5	35
27	Reducing Sample Quantity and Maintaining High Prediction Quality of Grassland Biomass Properties with near Infrared Reflectance Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2011, 19, 495-505.	1.5	32
28	Contribution of the soil seed bank to the restoration of temperate grasslands by mechanical sward disturbance. <i>Restoration Ecology</i> , 2018, 26, S114.	2.9	32
29	Eleven years' data of grassland management in Germany. <i>Biodiversity Data Journal</i> , 2019, 7, e36387.	0.8	32
30	Decomposition disentangled: A test of the multiple mechanisms by which nitrogen enrichment alters litter decomposition. <i>Functional Ecology</i> , 2020, 34, 1485-1496.	3.6	30
31	Changes in plant-herbivore network structure and robustness along land-use intensity gradients in grasslands and forests. <i>Science Advances</i> , 2021, 7, .	10.3	27
32	Impact of Land-Use Intensity and Productivity on Bryophyte Diversity in Agricultural Grasslands. <i>PLoS ONE</i> , 2012, 7, e51520.	2.5	25
33	Temporal and small-scale spatial variation in grassland productivity, biomass quality, and nutrient limitation. <i>Plant Ecology</i> , 2016, 217, 843-856.	1.6	25
34	Effects of mowing, grazing and fertilization on soil seed banks in temperate grasslands in Central Europe. <i>Agriculture, Ecosystems and Environment</i> , 2018, 256, 211-217.	5.3	25
35	Acceptance of near-natural greenspace management relates to ecological and socio-cultural assigned values among European urbanites. <i>Basic and Applied Ecology</i> , 2021, 50, 119-131.	2.7	25
36	Connectivity of public urban grasslands: implications for grassland conservation and restoration in cities. <i>Urban Ecosystems</i> , 2017, 20, 511-519.	2.4	22

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37	Nutrient stoichiometry and land use rather than species richness determine plant functional diversity. <i>Ecology and Evolution</i> , 2018, 8, 601-616.	1.9	22
38	Recovery of ecosystem functions after experimental disturbance in 73 grasslands differing in land-use intensity, plant species richness and community composition. <i>Journal of Ecology</i> , 2019, 107, 2635-2649.	4.0	20
39	Drought boosts risk of nitrate leaching from grassland fertilisation. <i>Science of the Total Environment</i> , 2020, 726, 137877.	8.0	20
40	Sedimentation-induced eutrophication in large river floodplains – An obstacle to restoration?. <i>Biological Conservation</i> , 2011, 144, 451-458.	4.1	19
41	Do biodiversity-ecosystem functioning experiments inform stakeholders how to simultaneously conserve biodiversity and increase ecosystem service provisioning in grasslands?. <i>Biological Conservation</i> , 2020, 245, 108552.	4.1	19
42	Restoration of plant diversity in permanent grassland by seeding: Assessing the limiting factors along land-use gradients. <i>Journal of Applied Ecology</i> , 2021, 58, 1681-1692.	4.0	19
43	Influence of experimental soil disturbances on the diversity of plants in agricultural grasslands. <i>Journal of Plant Ecology</i> , 2014, 7, 509-517.	2.3	18
44	Hemiparasite-density effects on grassland plant diversity, composition and biomass. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 32, 22-29.	2.7	17
45	A guide to assess and value ecosystem services of grasslands. <i>Ecosystem Services</i> , 2021, 52, 101376.	5.4	17
46	The Evolution of Ecological Diversity in Acidobacteria. <i>Frontiers in Microbiology</i> , 2022, 13, 715637.	3.5	15
47	The role of soil chemical properties, land use and plant diversity for microbial phosphorus in forest and grassland soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 185-197.	1.9	13
48	Organic vs. Conventional Grassland Management: Do 15N and 13C Isotopic Signatures of Hay and Soil Samples Differ?. <i>PLoS ONE</i> , 2013, 8, e78134.	2.5	12
49	And the winner is – . ! A test of simple predictors of plant species richness in agricultural grasslands. <i>Ecological Indicators</i> , 2018, 87, 296-301.	6.3	12
50	The costs of diversity: higher prices for more diverse grassland seed mixtures. <i>Environmental Research Letters</i> , 2021, 16, 094011.	5.2	10
51	Present and historical landscape structure shapes current species richness in Central European grasslands. <i>Landscape Ecology</i> , 2022, 37, 745-762.	4.2	9
52	Enriching plant diversity in grasslands by large-scale experimental sward disturbance and seed addition along gradients of land-use intensity. <i>Journal of Plant Ecology</i> , 0, , rtw062.	2.3	8
53	Cropping systems alter hydraulic traits of barley but not pea grown in mixture. <i>Plant, Cell and Environment</i> , 2021, 44, 2912-2924.	5.7	8
54	Does plant diversity affect the water balance of established grassland systems?. <i>Ecohydrology</i> , 2018, 11, e1945.	2.4	7

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55	Direct and plant community mediated effects of management intensity on annual nutrient leaching risk in temperate grasslands. <i>Nutrient Cycling in Agroecosystems</i> , 2022, 123, 83-104.	2.2	6
56	Soil conditions drive below-ground trait space in temperate agricultural grasslands. <i>Journal of Ecology</i> , 2022, 110, 1189-1200.	4.0	5
57	Enzyme kinetics inform about mechanistic changes in tea litter decomposition across gradients in land-use intensity in Central German grasslands. <i>Science of the Total Environment</i> , 2022, 836, 155748.	8.0	4
58	Water uptake patterns of pea and barley responded to drought but not to cropping systems. <i>Biogeosciences</i> , 2022, 19, 1853-1869.	3.3	2
59	Severe drought rather than cropping system determines litter decomposition in arable systems. <i>Agriculture, Ecosystems and Environment</i> , 2022, 338, 108078.	5.3	1