

Christian Schäfer

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

4,400
citations

172457

29
h-index

118850

62
g-index

95
all docs

95
docs citations

95
times ranked

5060
citing authors

#	ARTICLE	IF	CITATIONS
1	Using plant traits to understand the contribution of biodiversity effects to annual crop community productivity. <i>Ecological Applications</i> , 2022, 32, e02479.	3.8	13
2	Effect of Drought on Bean Yield Is Mediated by Intraspecific Variation in Crop Mixtures. <i>Frontiers in Plant Science</i> , 2022, 13, 813417.	3.6	2
3	Active and adaptive plasticity in a changing climate. <i>Trends in Plant Science</i> , 2022, 27, 717-728.	8.8	35
4	Temporal dynamics of biodiversity effects and light-use-related traits in two intercropping systems. , 2022, 1, 54-65.		8
5	Moderate shading did not affect barley yield in temperate silvoarable agroforestry systems. <i>Agroforestry Systems</i> , 2022, 96, 799-810.	2.0	10
6	Using spatially-explicit plant competition models to optimise crop productivity in intercropped systems. <i>Basic and Applied Ecology</i> , 2022, 63, 1-15.	2.7	5
7	Decreasing nitrogen deposition rates: Good news for oligotrophic grassland species?. <i>Basic and Applied Ecology</i> , 2022, 63, 125-138.	2.7	3
8	Foundation species promote local adaptation and fine-scale distribution of herbaceous plants. <i>Journal of Ecology</i> , 2021, 109, 191-203.	4.0	12
9	An experimental approach to assessing the impact of ecosystem engineers on biodiversity and ecosystem functions. <i>Ecology</i> , 2021, 102, e03243.	3.2	17
10	The positive effects of the alpine cushion plant <i>Arenaria polytrichoides</i> on insect dynamics are determined by both physical and biotic factors. <i>Science of the Total Environment</i> , 2021, 762, 143091.	8.0	5
11	Interspecific facilitation mediates the outcome of intraspecific interactions across an elevational gradient. <i>Ecology</i> , 2021, 102, e03200.	3.2	7
12	Facilitation and biodiversity jointly drive mutualistic networks. <i>Journal of Ecology</i> , 2021, 109, 2029-2037.	4.0	16
13	Network motifs involving both competition and facilitation predict biodiversity in alpine plant communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	47
14	Facilitation and biodiversity-ecosystem function relationships in crop production systems and their role in sustainable farming. <i>Journal of Ecology</i> , 2021, 109, 2054-2067.	4.0	58
15	Crop-weed relationships are context-dependent and cannot fully explain the positive effects of intercropping on yield. <i>Ecological Applications</i> , 2021, 31, e02311.	3.8	24
16	Alpine speciation and morphological innovations: revelations from a species-rich genus in the northern hemisphere. <i>AoB PLANTS</i> , 2021, 13, plab018.	2.3	8
17	Species interactions involving cushion plants in high-elevation environments under a changing climate. <i>Ecosistemas</i> , 2021, 30, 2186.	0.4	6
18	Positive Effects of Crop Diversity on Productivity Driven by Changes in Soil Microbial Composition. <i>Frontiers in Microbiology</i> , 2021, 12, 660749.	3.5	59

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19	Temporal Differentiation of Resource Capture and Biomass Accumulation as a Driver of Yield Increase in Intercropping. <i>Frontiers in Plant Science</i> , 2021, 12, 668803.	3.6	18
20	Does crop genetic diversity support positive biodiversity effects under experimental drought?. <i>Basic and Applied Ecology</i> , 2021, 56, 431-445.	2.7	5
21	Environmental Objectives of Spanish Agriculture: Scientific Guidelines for their Effective Implementation under the Common Agricultural Policy 2023-2030. <i>Ardeola</i> , 2021, 68, .	0.7	15
22	Diversity increases yield but reduces harvest index in crop mixtures. <i>Nature Plants</i> , 2021, 7, 893-898.	9.3	30
23	Facilitation by a dwarf shrub enhances plant diversity of human-valued species at high elevations in the Himalayas of Nepal. <i>Basic and Applied Ecology</i> , 2021, 54, 23-36.	2.7	10
24	Facilitation and plant phenotypic evolution. <i>Trends in Plant Science</i> , 2021, 26, 913-923.	8.8	13
25	Inter-specific Facilitation Mediates the Outcome of Intra-specific Interactions Across an Elevational Gradient. <i>Bulletin of the Ecological Society of America</i> , 2021, 102, e01806.	0.2	0
26	Alpine community recruitment potential is determined by habitat attributes in the alpine ecosystems of the Himalaya-Hengduan Mountains, SW China. <i>Ecology and Evolution</i> , 2021, 11, 17397-17408.	1.9	0
27	Shrub facilitation promotes selective tree establishment beyond the climatic treeline. <i>Science of the Total Environment</i> , 2020, 708, 134618.	8.0	18
28	Increased crop diversity reduces the functional space available for weeds. <i>Weed Research</i> , 2020, 60, 121-131.	1.7	13
29	Pollination interactions reveal direct costs and indirect benefits of plant-plant facilitation for ecosystem engineers. <i>Journal of Plant Ecology</i> , 2020, 13, 107-113.	2.3	10
30	Warming enhances growth but does not affect plant interactions in an alpine cushion species. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2020, 44, 125530.	2.7	13
31	Positive plant-plant interactions expand the upper distributional limits of some vascular plant species. <i>Ecosphere</i> , 2019, 10, e02820.	2.2	14
32	Plant domestication disrupts biodiversity effects across major crop types. <i>Ecology Letters</i> , 2019, 22, 1472-1482.	6.4	25
33	Plant interactions shape pollination networks via nonadditive effects. <i>Ecology</i> , 2019, 100, e02619.	3.2	37
34	Increasing water availability and facilitation weaken biodiversity-biomass relationships in shrublands. <i>Ecology</i> , 2019, 100, e02624.	3.2	34
35	Plant life history stage and nurse age change the development of ecological networks in an arid ecosystem. <i>Oikos</i> , 2018, 127, 1390-1397.	2.7	16
36	Habitat filtering determines the functional niche occupancy of plant communities worldwide. <i>Journal of Ecology</i> , 2018, 106, 1001-1009.	4.0	66

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37	Shrub facilitation drives tree establishment in a semiarid fog-dependent ecosystem. <i>Applied Vegetation Science</i> , 2018, 21, 113-120.	1.9	10
38	Seasonal comparison of bacterial communities in rhizosphere of alpine cushion plants in the Himalayan Hengduan Mountains. <i>Plant Diversity</i> , 2018, 40, 209-216.	3.7	12
39	Shrubs mediate forest start-up and patch dynamics in a semiarid landscape. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 34, 140-149.	2.7	1
40	The assembly of a plant network in alpine vegetation. <i>Journal of Vegetation Science</i> , 2018, 29, 999-1006.	2.2	20
41	The balance of canopy and soil effects determines intraspecific differences in foundation species' effects on associated plants. <i>Functional Ecology</i> , 2018, 32, 2253-2263.	3.6	19
42	Evolution of facilitation requires diverse communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1381-1385.	7.8	45
43	Species but not genotype diversity strongly impacts the establishment of rare colonisers. <i>Functional Ecology</i> , 2017, 31, 1462-1470.	3.6	5
44	A trait-based approach to understand the consequences of specific plant interactions for community structure. <i>Journal of Vegetation Science</i> , 2017, 28, 696-704.	2.2	25
45	Seed quality of the Sino-Himalayan endemic genus <i>Cyananthus</i> (Campanulaceae) increases with elevation and varies with life histories. <i>Plant Ecology and Diversity</i> , 2017, 10, 43-52.	2.4	1
46	Resistance of plant networks to biodiversity loss and secondary extinctions following simulated environmental changes. <i>Functional Ecology</i> , 2017, 31, 1145-1152.	3.6	46
47	The shift from plant-plant facilitation to competition under severe water deficit is spatially explicit. <i>Ecology and Evolution</i> , 2017, 7, 2441-2448.	1.9	45
48	How cushion communities are maintained in alpine ecosystems: A review and case study on alpine cushion plant reproduction. <i>Plant Diversity</i> , 2017, 39, 221-228.	3.7	15
49	Crop presence, but not genetic diversity, impacts on the rare arable plant <i>Valerianella rimosa</i> . <i>Plant Ecology and Diversity</i> , 2017, 10, 495-507.	2.4	3
50	Size-Mediated Interaction between a Cushion Species and Other Non-cushion Species at High Elevations of the Hengduan Mountains, SW China. <i>Frontiers in Plant Science</i> , 2017, 08, 465.	3.6	16
51	Legume Shrubs Are More Nitrogen-Homeostatic than Non-legume Shrubs. <i>Frontiers in Plant Science</i> , 2017, 8, 1662.	3.6	29
52	Feedback effects between plant and flower-visiting insect communities along a primary succession gradient. <i>Arthropod-Plant Interactions</i> , 2016, 10, 485-495.	1.1	18
53	Facilitation and sustainable agriculture: a mechanistic approach to reconciling crop production and conservation. <i>Functional Ecology</i> , 2016, 30, 98-107.	3.6	97
54	Contribution of co-occurring shrub species to community richness and phylogenetic diversity along an environmental gradient. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2016, 19, 30-39.	2.7	34

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55	Beneficiary feedback effects on alpine cushion benefactors become more negative with increasing cover of graminoids and in dry conditions. <i>Functional Ecology</i> , 2016, 30, 79-87.	3.6	38
56	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , 2015, 18, 1406-1419.	6.4	768
57	Cushion plants can have a positive effect on diversity at high elevations in the Himalayan Hengduan Mountains. <i>Journal of Vegetation Science</i> , 2015, 26, 768-777.	2.2	39
58	<i>Arabis alpina</i> and <i>Arabidopsis thaliana</i> have different stomatal development strategies in response to high altitude pressure conditions. <i>Alpine Botany</i> , 2015, 125, 101-112.	2.4	5
59	The effects of foundation species on community assembly: a global study on alpine cushion plant communities. <i>Ecology</i> , 2015, 96, 2064-2069.	3.2	53
60	Phylogenetic distance among beneficiary species in a cushion plant species explains interaction outcome. <i>Oikos</i> , 2015, 124, 1354-1359.	2.7	17
61	A trait-based approach to crop-weed interactions. <i>European Journal of Agronomy</i> , 2015, 70, 22-32.	4.1	18
62	Soil nutrient availability determines the facilitative effects of cushion plants on other plant species at high elevations in the south-eastern Himalayas. <i>Plant Ecology and Diversity</i> , 2015, 8, 199-210.	2.4	38
63	Competition, facilitation and environmental severity shape the relationship between local and regional species richness in plant communities. <i>Ecography</i> , 2015, 38, 335-345.	4.5	64
64	Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. <i>New Phytologist</i> , 2015, 206, 107-117.	7.3	805
65	Intraspecific genetic diversity and composition modify species-level diversity-productivity relationships. <i>New Phytologist</i> , 2015, 205, 720-730.	7.3	71
66	The context dependence of beneficiary feedback effects on benefactors in plant facilitation. <i>New Phytologist</i> , 2014, 204, 386-396.	7.3	37
67	Consequences of facilitation: one plant's benefit is another plant's cost. <i>Functional Ecology</i> , 2014, 28, 500-508.	3.6	55
68	Partitioning net interactions among plants along altitudinal gradients to study community responses to climate change. <i>Functional Ecology</i> , 2014, 28, 75-86.	3.6	120
69	A global analysis of bidirectional interactions in alpine plant communities shows facilitators experiencing strong reciprocal fitness costs. <i>New Phytologist</i> , 2014, 202, 95-105.	7.3	79
70	Facilitative plant interactions and climate simultaneously drive alpine plant diversity. <i>Ecology Letters</i> , 2014, 17, 193-202.	6.4	274
71	Alpine cushion plants inhibit the loss of phylogenetic diversity in severe environments. <i>Ecology Letters</i> , 2013, 16, 478-486.	6.4	151
72	The relationship between soil water storage capacity and plant species diversity in high alpine vegetation. <i>Plant Ecology and Diversity</i> , 2013, 6, 457-466.	2.4	30

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73	Direct and indirect interactions coâ€determine species composition in nurse plant systems. <i>Oikos</i> , 2013, 122, 1371-1379.	2.7	76
74	Variability in functional traits mediates plant interactions along stress gradients. <i>Journal of Ecology</i> , 2013, 101, 753-762.	4.0	177
75	Modulating effects of ontogeny on the outcome of plantâ€plant interactions along stress gradients. <i>New Phytologist</i> , 2013, 200, 7-9.	7.3	15
76	Foundation species influence traitâ€based community assembly. <i>New Phytologist</i> , 2012, 196, 824-834.	7.3	150
77	Combining observational and experimental methods in plantâ€plant interaction research. <i>Plant Ecology and Diversity</i> , 2012, 5, 27-36.	2.4	23
78	Predicting population and community dynamics: The type of aggregation matters. <i>Basic and Applied Ecology</i> , 2010, 11, 563-571.	2.7	8
79	Counterbalancing effects of competition for resources and facilitation against grazing in alpine snowbed communities. <i>Oikos</i> , 2010, 119, 1571-1580.	2.7	19
80	Small-scale plant species distribution in snowbeds and its sensitivity to climate change. <i>Plant Ecology</i> , 2009, 200, 91-104.	1.6	80
81	Changes in species composition in alpine snowbeds with climate change inferred from small-scale spatial patterns. <i>Web Ecology</i> , 2008, 8, 142-159.	1.6	12
82	Increasing species richness on mountain summits: Upward migration due to anthropogenic climate change or reâ€colonisation?. <i>Journal of Vegetation Science</i> , 2007, 18, 301-306.	2.2	36
83	Increasing species richness on mountain summits: Upward migration due to anthropogenic climate change or re-colonisation?. <i>Journal of Vegetation Science</i> , 2007, 18, 301.	2.2	7