

Christian Schäfer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9322710/publications.pdf>

Version: 2024-02-01

83
papers

4,400
citations

172386

29
h-index

118793

62
g-index

95
all docs

95
docs citations

95
times ranked

5060
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. <i>New Phytologist</i> , 2015, 206, 107-117.	3.5	805
2	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , 2015, 18, 1406-1419.	3.0	768
3	Facilitative plant interactions and climate simultaneously drive alpine plant diversity. <i>Ecology Letters</i> , 2014, 17, 193-202.	3.0	274
4	Variability in functional traits mediates plant interactions along stress gradients. <i>Journal of Ecology</i> , 2013, 101, 753-762.	1.9	177
5	Alpine cushion plants inhibit the loss of phylogenetic diversity in severe environments. <i>Ecology Letters</i> , 2013, 16, 478-486.	3.0	151
6	Foundation species influence trait-based community assembly. <i>New Phytologist</i> , 2012, 196, 824-834.	3.5	150
7	Partitioning net interactions among plants along altitudinal gradients to study community responses to climate change. <i>Functional Ecology</i> , 2014, 28, 75-86.	1.7	120
8	Facilitation and sustainable agriculture: a mechanistic approach to reconciling crop production and conservation. <i>Functional Ecology</i> , 2016, 30, 98-107.	1.7	97
9	Small-scale plant species distribution in snowbeds and its sensitivity to climate change. <i>Plant Ecology</i> , 2009, 200, 91-104.	0.7	80
10	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.	3.5	79
11	Direct and indirect interactions co-determine species composition in nurse plant systems. <i>Oikos</i> , 2013, 122, 1371-1379.	1.2	76
12	Intraspecific genetic diversity and composition modify species-level diversity-productivity relationships. <i>New Phytologist</i> , 2015, 205, 720-730.	3.5	71
13	Habitat filtering determines the functional niche occupancy of plant communities worldwide. <i>Journal of Ecology</i> , 2018, 106, 1001-1009.	1.9	66
14	Competition, facilitation and environmental severity shape the relationship between local and regional species richness in plant communities. <i>Ecography</i> , 2015, 38, 335-345.	2.1	64
15	Positive Effects of Crop Diversity on Productivity Driven by Changes in Soil Microbial Composition. <i>Frontiers in Microbiology</i> , 2021, 12, 660749.	1.5	59
16	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.	1.9	58
17	Consequences of facilitation: one plant's benefit is another plant's cost. <i>Functional Ecology</i> , 2014, 28, 500-508.	1.7	55
18	The effects of foundation species on community assembly: a global study on alpine cushion plant communities. <i>Ecology</i> , 2015, 96, 2064-2069.	1.5	53

#	ARTICLE	IF	CITATIONS
19	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, .	3.3	47
20	Resistance of plantâ€“plant networks to biodiversity loss and secondary extinctions following simulated environmental changes. <i>Functional Ecology</i> , 2017, 31, 1145-1152.	1.7	46
21	The shift from plantâ€“plant facilitation to competition under severe water deficit is spatially explicit. <i>Ecology and Evolution</i> , 2017, 7, 2441-2448.	0.8	45
22	Evolution of facilitation requires diverse communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1381-1385.	3.4	45
23	Cushion plants can have a positive effect on diversity at high elevations in the <sc>H</sc>imalayan <sc>H</sc>engduan <sc>M</sc>ountains. <i>Journal of Vegetation Science</i> , 2015, 26, 768-777.	1.1	39
24	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.	1.0	38
25	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.	1.7	38
26	The context dependence of beneficiary feedback effects on benefactors in plant facilitation. <i>New Phytologist</i> , 2014, 204, 386-396.	3.5	37
27	Plant interactions shape pollination networks via nonadditive effects. <i>Ecology</i> , 2019, 100, e02619.	1.5	37
28	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.	1.1	36
29	Active and adaptive plasticity in a changing climate. <i>Trends in Plant Science</i> , 2022, 27, 717-728.	4.3	35
30	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.	1.1	34
31	Increasing water availability and facilitation weaken biodiversityâ€“biomass relationships in shrublands. <i>Ecology</i> , 2019, 100, e02624.	1.5	34
32	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.	1.0	30
33	Diversity increases yield but reduces harvest index in crop mixtures. <i>Nature Plants</i> , 2021, 7, 893-898.	4.7	30
34	Legume Shrubs Are More Nitrogen-Homeostatic than Non-legume Shrubs. <i>Frontiers in Plant Science</i> , 2017, 8, 1662.	1.7	29
35	A traitâ€“based approach to understand the consequences of specific plant interactions for community structure. <i>Journal of Vegetation Science</i> , 2017, 28, 696-704.	1.1	25
36	Plant domestication disrupts biodiversity effects across major crop types. <i>Ecology Letters</i> , 2019, 22, 1472-1482.	3.0	25

#	ARTICLE	IF	CITATIONS
37	Crop–weed relationships are context-dependent and cannot fully explain the positive effects of intercropping on yield. <i>Ecological Applications</i> , 2021, 31, e02311.	1.8	24
38	Combining observational and experimental methods in plant–plant interaction research. <i>Plant Ecology and Diversity</i> , 2012, 5, 27-36.	1.0	23
39	The assembly of a plant network in alpine vegetation. <i>Journal of Vegetation Science</i> , 2018, 29, 999-1006.	1.1	20
40	Counterbalancing effects of competition for resources and facilitation against grazing in alpine snowbed communities. <i>Oikos</i> , 2010, 119, 1571-1580.	1.2	19
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.	1.7	19
42	A trait-based approach to crop–weed interactions. <i>European Journal of Agronomy</i> , 2015, 70, 22-32.	1.9	18
43	Feedback effects between plant and flower-visiting insect communities along a primary succession gradient. <i>Arthropod-Plant Interactions</i> , 2016, 10, 485-495.	0.5	18
44	Shrub facilitation promotes selective tree establishment beyond the climatic treeline. <i>Science of the Total Environment</i> , 2020, 708, 134618.	3.9	18
45	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.	1.7	18
46	Phylogenetic distance among beneficiary species in a cushion plant species explains interaction outcome. <i>Oikos</i> , 2015, 124, 1354-1359.	1.2	17
47	An experimental approach to assessing the impact of ecosystem engineers on biodiversity and ecosystem functions. <i>Ecology</i> , 2021, 102, e03243.	1.5	17
48	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.	1.7	16
49	Plant life history stage and nurse age change the development of ecological networks in an arid ecosystem. <i>Oikos</i> , 2018, 127, 1390-1397.	1.2	16
50	Facilitation and biodiversity jointly drive mutualistic networks. <i>Journal of Ecology</i> , 2021, 109, 2029-2037.	1.9	16
51	Modulating effects of ontogeny on the outcome of plant–plant interactions along stress gradients. <i>New Phytologist</i> , 2013, 200, 7-9.	3.5	15
52	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.	1.8	15
53	Environmental Objectives of Spanish Agriculture: Scientific Guidelines for their Effective Implementation under the Common Agricultural Policy 2023-2030. <i>Ardeola</i> , 2021, 68, .	0.4	15
54	Positive plant–plant interactions expand the upper distributional limits of some vascular plant species. <i>Ecosphere</i> , 2019, 10, e02820.	1.0	14

#	ARTICLE	IF	CITATIONS
55	Increased crop diversity reduces the functional space available for weeds. <i>Weed Research</i> , 2020, 60, 121-131.	0.8	13
56	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.	1.1	13
57	Facilitation and plant phenotypic evolution. <i>Trends in Plant Science</i> , 2021, 26, 913-923.	4.3	13
58	Using plant traits to understand the contribution of biodiversity effects to annual crop community productivity. <i>Ecological Applications</i> , 2022, 32, e02479.	1.8	13
59	Seasonal comparison of bacterial communities in rhizosphere of alpine cushion plants in the Himalayan Hengduan Mountains. <i>Plant Diversity</i> , 2018, 40, 209-216.	1.8	12
60	Foundation species promote local adaptation and fine-scale distribution of herbaceous plants. <i>Journal of Ecology</i> , 2021, 109, 191-203.	1.9	12
61	Changes in species composition in alpine snowbeds with climate change inferred from small-scale spatial patterns. <i>Web Ecology</i> , 2008, 8, 142-159.	0.4	12
62	Shrub facilitation drives tree establishment in a semiarid fog-dependent ecosystem. <i>Applied Vegetation Science</i> , 2018, 21, 113-120.	0.9	10
63	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.	1.2	10
64	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.	1.2	10
65	Moderate shading did not affect barley yield in temperate silvoarable agroforestry systems. <i>Agroforestry Systems</i> , 2022, 96, 799-810.	0.9	10
66	Predicting population and community dynamics: The type of aggregation matters. <i>Basic and Applied Ecology</i> , 2010, 11, 563-571.	1.2	8
67	Alpine speciation and morphological innovations: revelations from a species-rich genus in the northern hemisphere. <i>AoB PLANTS</i> , 2021, 13, plab018.	1.2	8
68	Temporal dynamics of biodiversity effects and light-use-related traits in two intercropping systems. , 2022, 1, 54-65.		8
69	Interspecific facilitation mediates the outcome of intraspecific interactions across an elevational gradient. <i>Ecology</i> , 2021, 102, e03200.	1.5	7
70	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.	1.1	7
71	Species interactions involving cushion plants in high-elevation environments under a changing climate. <i>Ecosistemas</i> , 2021, 30, 2186.	0.2	6
72	<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.	1.1	5

#	ARTICLE	IF	CITATIONS
73	Species but not genotype diversity strongly impacts the establishment of rare colonisers. <i>Functional Ecology</i> , 2017, 31, 1462-1470.	1.7	5
74	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.	3.9	5
75	Does crop genetic diversity support positive biodiversity effects under experimental drought?. <i>Basic and Applied Ecology</i> , 2021, 56, 431-445.	1.2	5
76	Using spatially-explicit plant competition models to optimise crop productivity in intercropped systems. <i>Basic and Applied Ecology</i> , 2022, 63, 1-15.	1.2	5
77	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.	1.0	3
78	Decreasing nitrogen deposition rates: Good news for oligotrophic grassland species?. <i>Basic and Applied Ecology</i> , 2022, 63, 125-138.	1.2	3
79	Effect of Drought on Bean Yield Is Mediated by Intraspecific Variation in Crop Mixtures. <i>Frontiers in Plant Science</i> , 2022, 13, 813417.	1.7	2
80	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.	1.0	1
81	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.	1.1	1
82	Interspecific Facilitation Mediates the Outcome of Intraspecific Interactions Across an Elevational Gradient. <i>Bulletin of the Ecological Society of America</i> , 2021, 102, e01806.	0.2	0
83	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.	0.8	0