

Oliver Bossdorf

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

6,912
citations

39
h-index

83
g-index

112
ext. papers

8,617
ext. citations

5.9
avg, IF

5.91
L-index

#	Paper	IF	Citations
89	Jack of all trades, master of some? On the role of phenotypic plasticity in plant invasions. <i>Ecology Letters</i> , 2006 , 9, 981-93	10	856
88	Phenotypic and genetic differentiation between native and introduced plant populations. <i>Oecologia</i> , 2005 , 144, 1-11	2.9	766
87	Epigenetics for ecologists. <i>Ecology Letters</i> , 2008 , 11, 106-15	10	599
86	Implementing large-scale and long-term functional biodiversity research: The Biodiversity Exploratories. <i>Basic and Applied Ecology</i> , 2010 , 11, 473-485	3.2	510
85	The scale of population structure in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2010 , 6, e1000843	6	251
84	Epigenetic variation creates potential for evolution of plant phenotypic plasticity. <i>New Phytologist</i> , 2013 , 197, 314-322	9.8	228
83	Allelopathic inhibition of germination by <i>Alliaria petiolata</i> (Brassicaceae). <i>American Journal of Botany</i> , 2004 , 91, 285-8	2.7	202
82	Do invasive species perform better in their new ranges?. <i>Ecology</i> , 2013 , 94, 985-94	4.6	173
81	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, 308-13	11.5	166
80	Ecological plant epigenetics: Evidence from model and non-model species, and the way forward. <i>Ecology Letters</i> , 2017 , 20, 1576-1590	10	165
79	Molecular evidence for multiple introductions of garlic mustard (<i>Alliaria petiolata</i> , Brassicaceae) to North America. <i>Molecular Ecology</i> , 2005 , 14, 1697-706	5.7	153
78	What Role Does Heritable Epigenetic Variation Play in Phenotypic Evolution?. <i>BioScience</i> , 2010 , 60, 232-237	5.7	149
77	Experimental alteration of DNA methylation affects the phenotypic plasticity of ecologically relevant traits in <i>Arabidopsis thaliana</i> . <i>Evolutionary Ecology</i> , 2010 , 24, 541-553	1.8	145
76	Reduced competitive ability in an invasive plant. <i>Ecology Letters</i> , 2004 , 7, 346-353	10	131
75	Invasive knotweed affects native plants through allelopathy. <i>American Journal of Botany</i> , 2011 , 98, 38-43	3.7	106
74	Epigenetic diversity increases the productivity and stability of plant populations. <i>Nature Communications</i> , 2013 , 4, 2875	17.4	104
73	Citizen science reveals unexpected continental-scale evolutionary change in a model organism. <i>PLoS ONE</i> , 2011 , 6, e18927	3.7	91

72	Environmental variability promotes plant invasion. <i>Nature Communications</i> , 2013 , 4, 1604	17.4	90
71	Understanding natural epigenetic variation. <i>New Phytologist</i> , 2010 , 187, 562-4	9.8	90
70	The Ecology and Evolution of Alien Plants. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2018 , 49, 25-47	13.5	86
69	Selection of preadapted populations allowed <i>Senecio inaequidens</i> to invade Central Europe. <i>Diversity and Distributions</i> , 2008 , 14, 676-685	5	86
68	Mix and match: regional admixture provenancing strikes a balance among different seed-sourcing strategies for ecological restoration. <i>Conservation Genetics</i> , 2019 , 20, 7-17	2.6	85
67	Spatial pattern formation in semi-arid shrubland: a priori predicted versus observed pattern characteristics. <i>Plant Ecology</i> , 2004 , 173, 271-282	1.7	78
66	Genetic differentiation and regional adaptation among seed origins used for grassland restoration: lessons from a multispecies transplant experiment. <i>Journal of Applied Ecology</i> , 2017 , 54, 127-136	5.8	74
65	Using herbaria to study global environmental change. <i>New Phytologist</i> , 2019 , 221, 110-122	9.8	71
64	Palatability and tolerance to simulated herbivory in native and introduced populations of <i>Alliaria petiolata</i> (Brassicaceae). <i>American Journal of Botany</i> , 2004 , 91, 856-62	2.7	70
63	Natural selection on the <i>Arabidopsis thaliana</i> genome in present and future climates. <i>Nature</i> , 2019 , 573, 126-129	50.4	63
62	Climate change will increase the naturalization risk from garden plants in Europe. <i>Global Ecology and Biogeography</i> , 2017 , 26, 43-53	6.1	63
61	Genetic differentiation within multiple common grassland plants supports seed transfer zones for ecological restoration. <i>Journal of Applied Ecology</i> , 2017 , 54, 116-126	5.8	62
60	Epigenetic variation in plant responses to defence hormones. <i>Annals of Botany</i> , 2012 , 110, 1423-8	4.1	61
59	The more the merrier: Multi-species experiments in ecology. <i>Basic and Applied Ecology</i> , 2014 , 15, 1-9	3.2	56
58	Longitudinal trends in climate drive flowering time clines in North American <i>Arabidopsis thaliana</i> . <i>Ecology and Evolution</i> , 2012 , 2, 1162-80	2.8	55
57	The Response of the Alpine Dwarf Shrub <i>Salix herbacea</i> to Altered Snowmelt Timing: Lessons from a Multi-Site Transplant Experiment. <i>PLoS ONE</i> , 2015 , 10, e0122395	3.7	55
56	The snow and the willows: earlier spring snowmelt reduces performance in the low-lying alpine shrub <i>Salix herbacea</i> . <i>Journal of Ecology</i> , 2016 , 104, 1041-1050	6	53
55	Adaptive transgenerational plasticity in the perennial <i>Plantago lanceolata</i> . <i>Oikos</i> , 2014 , 123, 41-46	4	53

54	Grassland management intensification weakens the associations among the diversities of multiple plant and animal taxa. <i>Ecology</i> , 2015 , 96, 1492-1501	4.6	52
53	Hybridization increases invasive knotweed success. <i>Evolutionary Applications</i> , 2014 , 7, 413-20	4.8	47
52	Understanding the evolutionary potential of epigenetic variation: a comparison of heritable phenotypic variation in epiRILs, RILs, and natural ecotypes of <i>Arabidopsis thaliana</i> . <i>Heredity</i> , 2018 , 121, 257-265	3.6	43
51	Small-scale patterns in snowmelt timing affect gene flow and the distribution of genetic diversity in the alpine dwarf shrub <i>Salix herbacea</i> . <i>Heredity</i> , 2014 , 113, 233-9	3.6	42
50	What role do plant-soil interactions play in the habitat suitability and potential range expansion of the alpine dwarf shrub <i>Salix herbacea</i> ?. <i>Basic and Applied Ecology</i> , 2014 , 15, 305-315	3.2	37
49	Functional trait differences and trait plasticity mediate biotic resistance to potential plant invaders. <i>Journal of Ecology</i> , 2018 , 106, 1607-1620	6	36
48	Evolutionary potential in the Alpine: trait heritabilities and performance variation of the dwarf willow <i>Salix herbacea</i> from different elevations and microhabitats. <i>Ecology and Evolution</i> , 2016 , 6, 3940-52	2.8	36
47	Simulating plant invasion dynamics in mountain ecosystems under global change scenarios. <i>Global Change Biology</i> , 2018 , 24, e289-e302	11.4	33
46	Genotype and maternal environment affect belowground interactions between <i>Arabidopsis thaliana</i> and its competitors. <i>Oikos</i> , 2009 , 118, 1541-1551	4	29
45	Transient Stability of Epigenetic Population Differentiation in a Clonal Invader. <i>Frontiers in Plant Science</i> , 2018 , 9, 1851	6.2	29
44	Phenotypic plasticity in response to temperature fluctuations is genetically variable, and relates to climatic variability of origin, in. <i>AoB PLANTS</i> , 2018 , 10, ply043	2.9	25
43	Help from under ground: soil biota facilitate knotweed invasion. <i>Ecosphere</i> , 2013 , 4, art31	3.1	24
42	European ornamental garden flora as an invasion debt under climate change. <i>Journal of Applied Ecology</i> , 2018 , 55, 2386-2395	5.8	23
41	Rapid evolution in native plants cultivated for ecological restoration: not a general pattern. <i>Plant Biology</i> , 2019 , 21, 551-558	3.7	23
40	Are local plants the best for ecosystem restoration? It depends on how you analyze the data. <i>Ecology and Evolution</i> , 2017 , 7, 10683-10689	2.8	23
39	A truly ecological epigenetics study. <i>Molecular Ecology</i> , 2011 , 20, 1572-4	5.7	21
38	Structure, stability and ecological significance of natural epigenetic variation: a large-scale survey in <i>Plantago lanceolata</i> . <i>New Phytologist</i> , 2019 , 221, 1585-1596	9.8	20
37	Testing for allelopathy in invasive plants: it all depends on the substrate!. <i>Biological Invasions</i> , 2016 , 18, 2975-2982	2.7	19

36	Climate-neutral ecology conferences: just do it!. <i>Trends in Ecology and Evolution</i> , 2010 , 25, 61	10.9	19
35	Plasticity to wind is modular and genetically variable in <i>Arabidopsis thaliana</i> . <i>Evolutionary Ecology</i> , 2009 , 23, 669-685	1.8	19
34	Plant ecotype affects interacting organisms across multiple trophic levels. <i>Basic and Applied Ecology</i> , 2016 , 17, 688-695	3.2	18
33	Geographical and land-use effects on seed-mass variation in common grassland plants. <i>Basic and Applied Ecology</i> , 2012 , 13, 395-404	3.2	17
32	Evolutionary responses to land use in eight common grassland plants. <i>Journal of Ecology</i> , 2017 , 105, 1296-1297	16	16
31	Evolutionary Significance of Epigenetic Variation 2012 , 257-274		16
30	Sources and modes of action of invasive knotweed allelopathy: the effects of leaf litter and trained soil on the germination and growth of native plants. <i>NeoBiota</i> , 2012 , 13, 15-30	4.2	16
29	The Global Garlic Mustard Field Survey (GGMFS): challenges and opportunities of a unique, large-scale collaboration for invasion biology. <i>NeoBiota</i> , 2012 , 21, 29-47	4.2	15
28	Less is more! Rapid increase in plant species richness after reduced mowing in urban grasslands. <i>Basic and Applied Ecology</i> , 2020 , 42, 47-53	3.2	14
27	Land use causes genetic differentiation of life-history traits in <i>Bromus hordeaceus</i> . <i>Global Change Biology</i> , 2013 , 19, 892-9	11.4	13
26	Epigenetics and the success of invasive plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200117	5.8	13
25	Plants adapted to warmer climate do not outperform regional plants during a natural heat wave. <i>Ecology and Evolution</i> , 2016 , 6, 4160-5	2.8	13
24	Will climate change increase hybridization risk between potential plant invaders and their congeners in Europe?. <i>Diversity and Distributions</i> , 2017 , 23, 934-943	5	12
23	EPIGENETICS OF COLONIZING SPECIES? A STUDY OF JAPANESE KNOTWEED IN CENTRAL EUROPE 2016 , 328-340		11
22	Enemy release and evolution of increased competitive ability: at last, a smoking gun!. <i>New Phytologist</i> , 2013 , 198, 638-640	9.8	11
21	Spatial patterns of plant association in grazed and ungrazed shrublands in the semi-arid Karoo, South Africa. <i>Journal of Vegetation Science</i> , 2000 , 11, 253-258	3.1	11
20	Plant populations of three threatened species experience rapid evolution under ex situ cultivation. <i>Biodiversity and Conservation</i> , 2019 , 28, 3951-3969	3.4	10
19	Rapid genomic and phenotypic change in response to climate warming in a widespread plant invader. <i>Global Change Biology</i> , 2020 , 26, 6511-6522	11.4	10

18	Isolation and characterization of microsatellite loci in the invasive <i>Alliaria petiolata</i> (Brassicaceae). <i>Molecular Ecology Notes</i> , 2004 , 4, 173-175		8
17	Invasive knotweed has greater nitrogen-use efficiency than native plants: evidence from a N pulse-chasing experiment. <i>Oecologia</i> , 2019 , 191, 389-396	2.9	7
16	Ecological plant epigenetics: Evidence from model and non-model species, and the way forward		7
15	A complete digitization of German herbaria is possible, sensible and should be started now. <i>Research Ideas and Outcomes</i> , 6,	2.5	6
14	Genotypic diversity and environmental variability affect the invasibility of experimental plant populations. <i>Oikos</i> , 2018 , 127, 570-578	4	4
13	Transgenerational effects of land use on offspring performance and growth in <i>Trifolium repens</i> . <i>Oecologia</i> , 2016 , 180, 409-20	2.9	3
12	A map of climate change-driven natural selection in <i>Arabidopsis thaliana</i>		3
11	Spring understory herbs flower later in intensively managed forests. <i>Ecological Applications</i> , 2021 , 31, e02332	4.9	2
10	Understanding plant microbiomes requires a genotype × environment framework. <i>American Journal of Botany</i> , 2021 , 108, 1820-1823	2.7	1
9	Effects of forest management on the phenology of early-flowering understory herbs		1
8	Plant-Soil Feedbacks of <i>Plantago lanceolata</i> in the Field Depend on Plant Origin and Herbivory. <i>Frontiers in Ecology and Evolution</i> , 2019 , 7,	3.7	1
7	Climate warming changes synchrony of plants and pollinators		1
6	Variation in regrowth ability in relation to land-use intensity in three common grassland herbs. <i>Journal of Plant Ecology</i> , 2021 , 14, 438-450	1.7	1
5	Climate warming changes synchrony of plants and pollinators.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022 , 289, 20212142	4.4	1
4	Effects of climate change and horticultural use on the spread of naturalized alien garden plants in Europe. <i>Ecography</i> , 2019 , 42, 1548-1557	6.5	0
3	Transgenerational effects of temperature fluctuations in .. <i>AoB PLANTS</i> , 2021 , 13, plab064	2.9	0
2	Environmental stress determines the colonization and impact of an endophytic fungus on invasive knotweed. <i>Biological Invasions</i> , 1	2.7	0
1	Evolution Megalab: Die geheimnisvolle Vielfalt der Bänderschnecken. <i>Biologie in Unserer Zeit</i> , 2009 , 39, 14-15	0.1	

