

# Oliver Bossdorf

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

9,650  
citations

61984

43  
h-index

51608

86  
g-index

112  
all docs

112  
docs citations

112  
times ranked

10099  
citing authors

#	ARTICLE	IF	CITATIONS
1	Jack of all trades, master of some? On the role of phenotypic plasticity in plant invasions. <i>Ecology Letters</i> , 2006, 9, 981-993.	6.4	1,063
2	Phenotypic and genetic differentiation between native and introduced plant populations. <i>Oecologia</i> , 2005, 144, 1-11.	2.0	875
3	Epigenetics for ecologists. <i>Ecology Letters</i> , 2008, 11, 106-115.	6.4	804
4	Implementing large-scale and long-term functional biodiversity research: The Biodiversity Exploratories. <i>Basic and Applied Ecology</i> , 2010, 11, 473-485.	2.7	649
5	The Scale of Population Structure in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2010, 6, e1000843.	3.5	338
6	Epigenetic variation creates potential for evolution of plant phenotypic plasticity. <i>New Phytologist</i> , 2013, 197, 314-322.	7.3	330
7	Ecological plant epigenetics: Evidence from model and non-model species, and the way forward. <i>Ecology Letters</i> , 2017, 20, 1576-1590.	6.4	279
8	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
9	Allelopathic inhibition of germination by <i>Alliaria petiolata</i> (Brassicaceae). <i>American Journal of Botany</i> , 2004, 91, 285-288.	1.7	237
10	Do invasive species perform better in their new ranges?. <i>Ecology</i> , 2013, 94, 985-994.	3.2	210
11	Molecular evidence for multiple introductions of garlic mustard ( <i>Alliaria petiolata</i> , Brassicaceae) to North America. <i>Molecular Ecology</i> , 2005, 14, 1697-1706.	3.9	189
12	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.	1.2	187
13	What Role Does Heritable Epigenetic Variation Play in Phenotypic Evolution?. <i>BioScience</i> , 2010, 60, 232-237.	4.9	175
14	Epigenetic diversity increases the productivity and stability of plant populations. <i>Nature Communications</i> , 2013, 4, 2875.	12.8	163
15	Reduced competitive ability in an invasive plant. <i>Ecology Letters</i> , 2004, 7, 346-353.	6.4	152
16	Natural selection on the <i>Arabidopsis thaliana</i> genome in present and future climates. <i>Nature</i> , 2019, 573, 126-129.	27.8	148
17	Using herbaria to study global environmental change. <i>New Phytologist</i> , 2019, 221, 110-122.	7.3	140
18	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.	1.5	139

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19	The Ecology and Evolution of Alien Plants. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2018, 49, 25-47.	8.3	138
20	Environmental variability promotes plant invasion. <i>Nature Communications</i> , 2013, 4, 1604.	12.8	135
21	Invasive knotweed affects native plants through allelopathy. <i>American Journal of Botany</i> , 2011, 98, 38-43.	1.7	133
22	Understanding natural epigenetic variation. <i>New Phytologist</i> , 2010, 187, 562-564.	7.3	118
23	Citizen Science Reveals Unexpected Continental-Scale Evolutionary Change in a Model Organism. <i>PLoS ONE</i> , 2011, 6, e18927.	2.5	118
24	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.	4.0	110
25	Selection of preadapted populations allowed <i>Senecio inaequidens</i> to invade Central Europe. <i>Diversity and Distributions</i> , 2008, 14, 676-685.	4.1	103
26	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, 233-239.	2.6	101
27	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.	2.5	101
28	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, 3940-3952.	1.9	98
29	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.	4.0	97
30	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.	2.7	95
31	Genetic differentiation within multiple common grassland plants supports seed transfer zones for ecological restoration. <i>Journal of Applied Ecology</i> , 2017, 54, 116-126.	4.0	95
32	Spatial pattern formation in semi-arid shrubland: a priori predicted versus observed pattern characteristics. <i>Plant Ecology</i> , 2004, 173, 271-282.	1.6	87
33	Climate change will increase the naturalization risk from garden plants in Europe. <i>Global Ecology and Biogeography</i> , 2017, 26, 43-53.	5.8	87
34	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, 856-862.	1.7	83
35	The more the merrier: Multi-species experiments in ecology. <i>Basic and Applied Ecology</i> , 2014, 15, 1-9.	2.7	83
36	Adaptive transgenerational plasticity in the perennial <i>Plantago lanceolata</i> . <i>Oikos</i> , 2014, 123, 41-46.	2.7	75

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37	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
38	Epigenetic variation in plant responses to defence hormones. <i>Annals of Botany</i> , 2012, 110, 1423-1428.	2.9	74
39	Longitudinal trends in climate drive flowering time clines in North American <i>Arabidopsis thaliana</i> . <i>Ecology and Evolution</i> , 2012, 2, 1162-1180.	1.9	65
40	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.	7.3	61
41	Epigenetics and the success of invasive plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200117.	4.0	61
42	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.	2.6	60
43	Hybridization increases invasive knotweed success. <i>Evolutionary Applications</i> , 2014, 7, 413-420.	3.1	57
44	Simulating plant invasion dynamics in mountain ecosystems under global change scenarios. <i>Global Change Biology</i> , 2018, 24, e289-e302.	9.5	54
45	Functional trait differences and trait plasticity mediate biotic resistance to potential plant invaders. <i>Journal of Ecology</i> , 2018, 106, 1607-1620.	4.0	50
46	Phenotypic plasticity in response to temperature fluctuations is genetically variable, and relates to climatic variability of origin, in <i>Arabidopsis thaliana</i> . <i>AoB PLANTS</i> , 2018, 10, ply043.	2.3	50
47	Transient Stability of Epigenetic Population Differentiation in a Clonal Invader. <i>Frontiers in Plant Science</i> , 2018, 9, 1851.	3.6	49
48	European ornamental garden flora as an invasion debt under climate change. <i>Journal of Applied Ecology</i> , 2018, 55, 2386-2395.	4.0	45
49	Genotype and maternal environment affect belowground interactions between <i>Arabidopsis thaliana</i> and its competitors. <i>Oikos</i> , 2009, 118, 1541-1551.	2.7	38
50	Rapid evolution in native plants cultivated for ecological restoration: not a general pattern. <i>Plant Biology</i> , 2019, 21, 551-558.	3.8	38
51	Help from under ground: soil biota facilitate knotweed invasion. <i>Ecosphere</i> , 2013, 4, 1-11.	2.2	36
52	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.	1.9	35
53	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.	2.7	34
54	Rapid genomic and phenotypic change in response to climate warming in a widespread plant invader. <i>Global Change Biology</i> , 2020, 26, 6511-6522.	9.5	28

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55	Climate-neutral ecology conferences: just do it!. Trends in Ecology and Evolution, 2010, 25, 61.	8.7	27
56	A truly ecological epigenetics study. Molecular Ecology, 2011, 20, 1572-1574.	3.9	26
57	Testing for allelopathy in invasive plants: it all depends on the substrate!. Biological Invasions, 2016, 18, 2975-2982.	2.4	26
58	Plasticity to wind is modular and genetically variable in Arabidopsis thaliana. Evolutionary Ecology, 2009, 23, 669-685.	1.2	23
59	Land use causes genetic differentiation of life-history traits in <i>Bromus hordeaceus</i> . Global Change Biology, 2013, 19, 892-899.	9.5	23
60	Evolutionary Significance of Epigenetic Variation. , 2012, , 257-274.		22
61	Plant ecotype affects interacting organisms across multiple trophic levels. Basic and Applied Ecology, 2016, 17, 688-695.	2.7	21
62	Evolutionary responses to land use in eight common grassland plants. Journal of Ecology, 2017, 105, 1290-1297.	4.0	21
63	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. NeoBiota, 0, 13, 15-30.	1.0	20
64	Geographical and land-use effects on seed-mass variation in common grassland plants. Basic and Applied Ecology, 2012, 13, 395-404.	2.7	19
65	Will climate change increase hybridization risk between potential plant invaders and their congeners in Europe?. Diversity and Distributions, 2017, 23, 934-943.	4.1	19
66	The Global Garlic Mustard Field Survey (GGMFS): challenges and opportunities of a unique, large-scale collaboration for invasion biology. NeoBiota, 0, 21, 29-47.	1.0	19
67	Climate warming can reduce biocontrol efficacy and promote plant invasion due to both genetic and transient metabolomic changes. Ecology Letters, 2022, 25, 1387-1400.	6.4	19
68	Invasive knotweed has greater nitrogen-use efficiency than native plants: evidence from a 15N pulse-chasing experiment. Oecologia, 2019, 191, 389-396.	2.0	18
69	A complete digitization of German herbaria is possible, sensible and should be started now. Research Ideas and Outcomes, 0, 6, .	1.0	18
70	Plants adapted to warmer climate do not outperform regional plants during a natural heat wave. Ecology and Evolution, 2016, 6, 4160-4165.	1.9	16
71	Evolution of plant drought strategies and herbivore tolerance after two decades of climate change. New Phytologist, 2022, 235, 773-785.	7.3	16
72	Climate warming changes synchrony of plants and pollinators. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212142.	2.6	16

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73	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.	2.2	15
74	Plant populations of three threatened species experience rapid evolution under ex situ cultivation. <i>Biodiversity and Conservation</i> , 2019, 28, 3951-3969.	2.6	15
75	Enemy release and evolution of increased competitive ability: at last, a smoking gun!. <i>New Phytologist</i> , 2013, 198, 638-640.	7.3	13
76	Spring understory herbs flower later in intensively managed forests. <i>Ecological Applications</i> , 2021, 31, e02332.	3.8	13
77	Historical comparisons show evolutionary changes in drought responses in European plant species after two decades of climate change. <i>Basic and Applied Ecology</i> , 2022, 58, 26-38.	2.7	12
78	Isolation and characterization of microsatellite loci in the invasive <i>Alliaria petiolata</i> (Brassicaceae). <i>Molecular Ecology Notes</i> , 2004, 4, 173-175.	1.7	8
79	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, .	2.2	8
80	Environmental stress determines the colonization and impact of an endophytic fungus on invasive knotweed. <i>Biological Invasions</i> , 2022, 24, 1785-1795.	2.4	8
81	Forest wildflowers bloom earlier as Europe warms: lessons from herbaria and spatial modelling. <i>New Phytologist</i> , 2022, 235, 52-65.	7.3	8
82	Evolution during seed production for ecological restoration? A molecular analysis of 19 species finds only minor genomic changes. <i>Journal of Applied Ecology</i> , 2022, 59, 1383-1393.	4.0	7
83	Transgenerational effects of land use on offspring performance and growth in <i>Trifolium repens</i> . <i>Oecologia</i> , 2016, 180, 409-420.	2.0	6
84	Genotypic diversity and environmental variability affect the invasibility of experimental plant populations. <i>Oikos</i> , 2018, 127, 570-578.	2.7	5
85	Genome report: a draft genome of <i>Alliaria petiolata</i> (garlic mustard) as a model system for invasion genetics. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	5
86	Transgenerational effects of temperature fluctuations in <i>Arabidopsis thaliana</i> . <i>AoB PLANTS</i> , 2021, 13, plab064.	2.3	5
87	Understanding plant microbiomes requires a genotype × environment framework. <i>American Journal of Botany</i> , 2021, 108, 1820-1823.	1.7	4
88	Effects of climate change and horticultural use on the spread of naturalized alien garden plants in Europe. <i>Ecography</i> , 2019, 42, 1548-1557.	4.5	2
89	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.	2.3	2
90	Evolution Megalab: Die geheimnisvolle Vielfalt der Änderschnecken. <i>Biologie in Unserer Zeit</i> , 2009, 39, 14-15.	0.2	0