Oliver Bossdorf

List of Publications by Year
in descending order

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	Historical comparisons show evolutionary changes in drought responses in European plant species after two decades of climate change. Basic and Applied Ecology, 2022, 58, 26-38.	2.7	12
2	Environmental stress determines the colonization and impact of an endophytic fungus on invasive knotweed. Biological Invasions, 2022, 24, 1785-1795.	2.4	8
3	Evolution of plant drought strategies and herbivore tolerance after two decades of climate change. New Phytologist, 2022, 235, 773-785.	7.3	16
4	Climate warming changes synchrony of plants and pollinators. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212142.	2.6	16
5	Evolution during seed production for ecological restoration? A molecular analysis of 19 species finds only minor genomic changes. Journal of Applied Ecology, 2022, 59, 1383-1393.	4.0	7
6	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
7	Forest wildflowers bloom earlier as Europe warms: lessons from herbaria and spatial modelling. New Phytologist, 2022, 235, 52-65.	7.3	8
8	Epigenetics and the success of invasive plants. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200117.	4.0	61
9	Spring understory herbs flower later in intensively managed forests. Ecological Applications, 2021, 31, e02332.	3.8	13
10	Variation in regrowth ability in relation to land-use intensity in three common grassland herbs. Journal of Plant Ecology, 2021, 14, 438-450.	2.3	2
11	Genome report: a draft genome of Alliaria petiolata (garlic mustard) as a model system for invasion genetics. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	5
12	Transgenerational effects of temperature fluctuations inArabidopsis thaliana. AoB PLANTS, 2021, 13, plab064.	2.3	5
13	Understanding plant microbiomes requires a genotype Ã— environment framework. American Journal of Botany, 2021, 108, 1820-1823.	1.7	4
14	Less is more! Rapid increase in plant species richness after reduced mowing in urban grasslands. Basic and Applied Ecology, 2020, 42, 47-53.	2.7	34
15	Rapid genomic and phenotypic change in response to climate warming in a widespread plant invader. Global Change Biology, 2020, 26, 6511-6522.	9.5	28
16	Rapid evolution in native plants cultivated for ecological restoration: not a general pattern. Plant Biology, 2019, 21, 551-558.	3.8	38
17	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
18	Natural selection on the Arabidopsis thaliana genome in present and future climates. Nature, 2019, 573, 126-129.	27.8	148

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19	Plant populations of three threatened species experience rapid evolution under ex situ cultivation. Biodiversity and Conservation, 2019, 28, 3951-3969.	2.6	15
20	Effects of climate change and horticultural use on the spread of naturalized alien garden plants in Europe. Ecography, 2019, 42, 1548-1557.	4.5	2
21	Plant-Soil Feedbacks of Plantago lanceolata in the Field Depend on Plant Origin and Herbivory. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	8
22	Structure, stability and ecological significance of natural epigenetic variation: a largeâ€scale survey in Plantago lanceolata. New Phytologist, 2019, 221, 1585-1596.	7.3	61
23	Using herbaria to study global environmental change. New Phytologist, 2019, 221, 110-122.	7.3	140
24	Mix and match: regional admixture provenancing strikes a balance among different seed-sourcing strategies for ecological restoration. Conservation Genetics, 2019, 20, 7-17.	1.5	139
25	Functional trait differences and trait plasticity mediate biotic resistance to potential plant invaders. Journal of Ecology, 2018, 106, 1607-1620.	4.0	50
26	Genotypic diversity and environmental variability affect the invasibility of experimental plant populations. Oikos, 2018, 127, 570-578.	2.7	5
27	Simulating plant invasion dynamics in mountain ecosystems under global change scenarios. Global Change Biology, 2018, 24, e289-e302.	9.5	54
28	Phenotypic plasticity in response to temperature fluctuations is genetically variable, and relates to climatic variability of origin, in Arabidopsis thaliana. AoB PLANTS, 2018, 10, ply043.	2.3	50
29	Understanding the evolutionary potential of epigenetic variation: a comparison of heritable phenotypic variation in epiRILs, RILs, and natural ecotypes of Arabidopsis thaliana. Heredity, 2018, 121, 257-265.	2.6	60
30	The Ecology and Evolution of Alien Plants. Annual Review of Ecology, Evolution, and Systematics, 2018, 49, 25-47.	8.3	138
31	European ornamental garden flora as an invasion debt under climate change. Journal of Applied Ecology, 2018, 55, 2386-2395.	4.0	45
32	Transient Stability of Epigenetic Population Differentiation in a Clonal Invader. Frontiers in Plant Science, 2018, 9, 1851.	3.6	49
33	Genetic differentiation within multiple common grassland plants supports seed transfer zones for ecological restoration. Journal of Applied Ecology, 2017, 54, 116-126.	4.0	95
34	Genetic differentiation and regional adaptation among seed origins used for grassland restoration: lessons from a multispecies transplant experiment. Journal of Applied Ecology, 2017, 54, 127-136.	4.0	97
35	Evolutionary responses to land use in eight common grassland plants. Journal of Ecology, 2017, 105, 1290-1297.	4.0	21
36	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

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37	Ecological plant epigenetics: Evidence from model and nonâ€model species, and the way forward. Ecology Letters, 2017, 20, 1576-1590.	6.4	279
38	Are local plants the best for ecosystem restoration? It depends on how you analyze the data. Ecology and Evolution, 2017, 7, 10683-10689.	1.9	35
39	Climate change will increase the naturalization risk from garden plants in Europe. Global Ecology and Biogeography, 2017, 26, 43-53.	5.8	87
40	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
41	Plant ecotype affects interacting organisms across multiple trophic levels. Basic and Applied Ecology, 2016, 17, 688-695.	2.7	21
42	Evolutionary potential in the Alpine: trait heritabilities and performance variation of the dwarf willow Salix herbacea from different elevations and microhabitats. Ecology and Evolution, 2016, 6, 3940-3952.	1.9	98
43	Transgenerational effects of land use on offspring performance and growth in Trifolium repens. Oecologia, 2016, 180, 409-420.	2.0	6
44	Testing for allelopathy in invasive plants: it all depends on the substrate!. Biological Invasions, 2016, 18, 2975-2982.	2.4	26
45	The snow and the willows: earlier spring snowmelt reduces performance in the lowâ€lying alpine shrub Salix herbacea. Journal of Ecology, 2016, 104, 1041-1050.	4.0	110
46	Grassland management intensification weakens the associations among the diversities of multiple plant and animal taxa. Ecology, 2015, 96, 1492-1501.	3.2	75
47	The Response of the Alpine Dwarf Shrub Salix herbacea to Altered Snowmelt Timing: Lessons from a Multi-Site Transplant Experiment. PLoS ONE, 2015, 10, e0122395.	2.5	101
48	Interannual variation in land-use intensity enhances grassland multidiversity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 308-313.	7.1	243
49	Hybridization increases invasive knotweed success. Evolutionary Applications, 2014, 7, 413-420.	3.1	57
50	The more the merrier: Multi-species experiments in ecology. Basic and Applied Ecology, 2014, 15, 1-9.	2.7	83
51	Adaptive transgenerational plasticity in the perennial Plantago lanceolata. Oikos, 2014, 123, 41-46.	2.7	75
52	Small-scale patterns in snowmelt timing affect gene flow and the distribution of genetic diversity in the alpine dwarf shrub Salix herbacea. Heredity, 2014, 113, 233-239.	2.6	101
53	What role do plantâ€“soil interactions play in the habitat suitability and potential range expansion of the alpine dwarf shrub Salix herbacea?. Basic and Applied Ecology, 2014, 15, 305-315.	2.7	95
54	Epigenetic diversity increases the productivity and stability of plant populations. Nature Communications, 2013, 4, 2875.	12.8	163

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55	Environmental variability promotes plant invasion. Nature Communications, 2013, 4, 1604.	12.8	135
56	Epigenetic variation creates potential for evolution of plant phenotypic plasticity. New Phytologist, 2013, 197, 314-322.	7.3	330
57	Land use causes genetic differentiation of lifeâ€history traits in Bromus hordeaceus. Global Change Biology, 2013, 19, 892-899.	9.5	23
58	Enemy release and evolution of increased competitive ability: at last, a smoking gun!. New Phytologist, 2013, 198, 638-640.	7.3	13
59	Do invasive species perform better in their new ranges?. Ecology, 2013, 94, 985-994.	3.2	210
60	Help from under ground: soil biota facilitate knotweed invasion. Ecosphere, 2013, 4, 1-11.	2.2	36
61	Epigenetic variation in plant responses to defence hormones. Annals of Botany, 2012, 110, 1423-1428.	2.9	74
62	Geographical and land-use effects on seed-mass variation in common grassland plants. Basic and Applied Ecology, 2012, 13, 395-404.	2.7	19
63	Longitudinal trends in climate drive flowering time clines in North American Arabidopsis thaliana. Ecology and Evolution, 2012, 2, 1162-1180.	1.9	65
64	Evolutionary Significance of Epigenetic Variation. , 2012, , 257-274.		22
65	Invasive knotweed affects native plants through allelopathy. American Journal of Botany, 2011, 98, 38-43.	1.7	133
66	A truly ecological epigenetics study. Molecular Ecology, 2011, 20, 1572-1574.	3.9	26
67	Citizen Science Reveals Unexpected Continental-Scale Evolutionary Change in a Model Organism. PLoS ONE, 2011, 6, e18927.	2.5	118
68	Experimental alteration of DNA methylation affects the phenotypic plasticity of ecologically relevant traits in Arabidopsis thaliana. Evolutionary Ecology, 2010, 24, 541-553.	1.2	187
69	Implementing large-scale and long-term functional biodiversity research: The Biodiversity Exploratories. Basic and Applied Ecology, 2010, 11, 473-485.	2.7	649
70	Understanding natural epigenetic variation. New Phytologist, 2010, 187, 562-564.	7.3	118
71	The Scale of Population Structure in Arabidopsis thaliana. PLoS Genetics, 2010, 6, e1000843.	3.5	338
72	What Role Does Heritable Epigenetic Variation Play in Phenotypic Evolution?. BioScience, 2010, 60, 232-237.	4.9	175

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73	Climate-neutral ecology conferences: just do it!. Trends in Ecology and Evolution, 2010, 25, 61.	8.7	27
74	Evolution Megalab: Die geheimnisvolle Vielfalt der BÃnderschnecken. Biologie in Unserer Zeit, 2009, 39, 14-15.	0.2	0
75	Plasticity to wind is modular and genetically variable in Arabidopsis thaliana. Evolutionary Ecology, 2009, 23, 669-685.	1.2	23
76	Genotype and maternal environment affect belowground interactions between Arabidopsis thaliana and its competitors. Oikos, 2009, 118, 1541-1551.	2.7	38
77	Epigenetics for ecologists. Ecology Letters, 2008, 11, 106-115.	6.4	804
78	Selection of preadapted populations allowed Senecio inaequidens to invade Central Europe. Diversity and Distributions, 2008, 14, 676-685.	4.1	103
79	Jack of all trades, master of some? On the role of phenotypic plasticity in plant invasions. Ecology Letters, 2006, 9, 981-993.	6.4	1,063
80	Molecular evidence for multiple introductions of garlic mustard (Alliaria petiolata, Brassicaceae) to North America. Molecular Ecology, 2005, 14, 1697-1706.	3.9	189
81	Phenotypic and genetic differentiation between native and introduced plant populations. Oecologia, 2005, 144, 1-11.	2.0	875
82	Palatability and tolerance to simulated herbivory in native and introduced populations of Alliaria petiolata (Brassicaceae). American Journal of Botany, 2004, 91, 856-862.	1.7	83
83	Reduced competitive ability in an invasive plant. Ecology Letters, 2004, 7, 346-353.	6.4	152
84	Isolation and characterization of microsatellite loci in the invasive Alliaria petiolata (Brassicaceae). Molecular Ecology Notes, 2004, 4, 173-175.	1.7	8
85	Spatial pattern formation in semi-arid shrubland: a priori predicted versus observed pattern characteristics. Plant Ecology, 2004, 173, 271-282.	1.6	87
86	Allelopathic inhibition of germination by Alliaria petiolata (Brassicaceae). American Journal of Botany, 2004, 91, 285-288.	1.7	237
87	Spatial patterns of plant association in grazed and ungrazed shrublands in the semi-arid Karoo, South Africa. Journal of Vegetation Science, 2000, 11, 253-258.	2.2	15
88	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
89	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
90	A complete digitization of German herbaria is possible, sensible and should be started now. Research Ideas and Outcomes, 0, 6, .	1.0	18