Patrick Weigelt

List of Publications by Citations

95 papers	4,696 citations	32 h-index	68 g-index
109 ext. papers	6,679 ext. citations	7.6 avg, IF	5.49 L-index

#	Paper	IF	Citations
95	No saturation in the accumulation of alien species worldwide. *Nature Communications*, **2017**, 8, 14435	17.4	863
94	Global exchange and accumulation of non-native plants. *Nature*, **2015**, 525, 100-3	50.4	508
93	TRY plant trait database - enhanced coverage and open access. *Global Change Biology*, **2020**, 26, 119-188	11.4	399
92	Naturalized alien flora of the world. *Preslia*, **2017**, 89, 203-274	3.9	230
91	Multidimensional biases, gaps and uncertainties in global plant occurrence information. *Ecology Letters*, **2016**, 19, 992-1006	10	226
90	Global hotspots and correlates of alien species richness across taxonomic groups. *Nature Ecology and Evolution*, **2017**, 1,	12.3	196
89	Bioclimatic and physical characterization of the world's islands. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 15307-12	11.5	154
88	Late Quaternary climate change shapes island biodiversity. *Nature*, **2016**, 532, 99-102	50.4	147
87	The changing role of ornamental horticulture in alien plant invasions. *Biological Reviews*, **2018**, 93, 1421-1437	13.3	131
86	Quantifying island isolation - insights from global patterns of insular plant species richness. *Ecography*, **2013**, 36, 417-429	6.5	115
85	A roadmap for island biology: 50 fundamental questions after 50 years of The Theory of Island Biogeography. *Journal of Biogeography*, **2017**, 44, 963-983	4.1	101
84	Oceanic island biogeography through the lens of the general dynamic model: assessment and prospect. *Biological Reviews*, **2017**, 92, 830-853	13.5	83
83	Correction for Weigelt et al., Bioclimatic and physical characterization of the world's islands. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 18400.2-18400	11.5	78
82	The Global Naturalized Alien Flora (GloNAF) database. *Ecology*, **2019**, 100, e02542	4.6	75
81	Global patterns and drivers of phylogenetic structure in island floras. *Scientific Reports*, **2015**, 5, 12213	4.9	68
80	Remoteness promotes biological invasions on islands worldwide. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9270-9275	11.5	66
79	Climate change will increase the naturalization risk from garden plants in Europe. *Global Ecology and Biogeography*, **2017**, 26, 43-53	6.1	63

78	Plants capable of selfing are more likely to become naturalized. *Nature Communications*, **2016**, 7, 13313	17.4	57
77	Dissecting global turnover in vascular plants. *Global Ecology and Biogeography*, **2017**, 26, 228-242	6.1	50
76	GIFT A Global Inventory of Floras and Traits for macroecology and biogeography. *Journal of Biogeography*, **2020**, 47, 16-43	4.1	50
75	Species richness and biomass explain spatial turnover in ecosystem functioning across tropical and temperate ecosystems. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	49
74	Delineating probabilistic species pools in ecology and biogeography. *Global Ecology and Biogeography*, **2016**, 25, 489-501	6.1	47
73	Mycorrhizal fungi influence global plant biogeography. *Nature Ecology and Evolution*, **2019**, 3, 424-429	12.3	44
72	Naturalization of European plants on other continents: The role of donor habitats. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 13756-13761	11.5	42
71	Biogeographic, climatic and spatial drivers differentially affect and diversities on oceanic archipelagos. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20133246	4.4	41
70	Diversity and vertical distribution of epiphytic macrolichens in lowland rain forest and lowland cloud forest of French Guiana. *Ecological Indicators*, **2010**, 10, 1111-1118	5.8	39
69	Biodiversity data integration-the significance of data resolution and domain. *PLoS Biology*, **2019**, 17, e3000183	9.7	38
68	Differences in species area relationships among the major lineages of land plants: a macroecological perspective. *Global Ecology and Biogeography*, **2014**, 23, 1275-1283	6.1	38
67	Economic use of plants is key to their naturalization success. *Nature Communications*, **2020**, 11, 3201	17.4	37
66	Make EU trade with Brazil sustainable. *Science*, **2019**, 364, 341	33.3	35
65	Factors controlling the abundance of lianas along an altitudinal transect of tropical forests in Ecuador. *Forest Ecology and Management*, **2010**, 259, 1399-1405	3.9	33
64	The role of adaptive strategies in plant naturalization. *Ecology Letters*, **2018**, 21, 1380-1389	10	32
63	Drivers of the relative richness of naturalized and invasive plant species on Earth. *AoB PLANTS*, **2019**, 11, plz051	2.9	31
62	Differential effects of environmental heterogeneity on global mammal species richness. *Global Ecology and Biogeography*, **2015**, 24, 1072-1083	6.1	31
61	Global root traits (GRooT) database. *Global Ecology and Biogeography*, **2021**, 30, 25-37	6.1	28

60	Naturalization of ornamental plant species in public green spaces and private gardens. *Biological Invasions*, **2017**, 19, 3613-3627	2.7	27
59	Island biogeography from regional to local scales: evidence for a spatially scaled echo pattern of fern diversity in the Southeast Asian archipelago. *Journal of Biogeography*, **2014**, 41, 250-260	4.1	27
58	European ornamental garden flora as an invasion debt under climate change. *Journal of Applied Ecology*, **2018**, 55, 2386-2395	5.8	23
57	Island disharmony revisited using orchids as a model group. *New Phytologist*, **2019**, 223, 597-606	9.8	22
56	Domestic gardens play a dominant role in selecting alien species with adaptive strategies that facilitate naturalization. *Global Ecology and Biogeography*, **2019**, 28, 628-639	6.1	21
55	Tall-statured grasses: a useful functional group for invasion science. *Biological Invasions*, **2019**, 21, 37-58	2.7	21
54	Snapshot isolation and isolation history challenge the analogy between mountains and islands used to understand endemism. *Global Ecology and Biogeography*, **2020**, 29, 1651-1673	6.1	20
53	Why tree lines are lower on islands—climatic and biogeographic effects hold the answer. *Global Ecology and Biogeography*, **2019**, 28, 839-850	6.1	19
52	Current climate, isolation and history drive global patterns of tree phylogenetic endemism. *Global Ecology and Biogeography*, **2020**, 29, 4-15	6.1	16
51	Global fern and lycophyte richness explained: How regional and local factors shape plot richness. *Journal of Biogeography*, **2020**, 47, 59-71	4.1	16
50	Species–area relationships on small islands differ among plant growth forms. *Global Ecology and Biogeography*, **2020**, 29, 814-829	6.1	15
49	EpiList 1.0: a global checklist of vascular epiphytes. *Ecology*, **2021**, 102, e03326	4.6	15
48	Resource stoichiometry and availability modulate species richness and biomass of tropical litter macro-invertebrates. *Journal of Animal Ecology*, **2017**, 86, 1114-1123	4.7	14
47	What Will the Future Bring for Biological Invasions on Islands? An Expert-Based Assessment. *Frontiers in Ecology and Evolution*, **2020**, 8,	3.7	14
46	Will climate change increase hybridization risk between potential plant invaders and their congeners in Europe?. *Diversity and Distributions*, **2017**, 23, 934-943	5	12
45	Island floras are not necessarily more species poor than continental ones. *Journal of Biogeography*, **2015**, 42, 8-10	4.1	12
44	The general dynamic model of island biogeography revisited at the level of major flowering plant families. *Journal of Biogeography*, **2017**, 44, 1029-1040	4.1	12
43	Source pools and disharmony of the world's island floras. *Ecography*, **2021**, 44, 44-55	6.5	12

42	Facultative mycorrhizal associations promote plant naturalization worldwide. *Ecosphere*, **2019**, 10, e02937	3.1	10
41	Contrasting patterns of naturalized plant richness in the Americas: Numbers are higher in the North but expected to rise sharply in the South. *Global Ecology and Biogeography*, **2019**, 28, 779-783	6.1	9
40	Autofertility and self-compatibility moderately benefit island colonization of plants. *Global Ecology and Biogeography*, **2019**, 28, 341-352	6.1	9
39	A global test of the subsidized island biogeography hypothesis. *Global Ecology and Biogeography*, **2020**, 29, 320-330	6.1	8
38	Similar factors underlie tree abundance in forests in native and alien ranges. *Global Ecology and Biogeography*, **2020**, 29, 281-294	6.1	8
37	Disentangling native and alien plant diversity in coastal sand dune ecosystems worldwide. *Journal of Vegetation Science*, **2021**, 32,	3.1	8
36	South Africa as a Donor of Naturalised and Invasive Plants to Other Parts of the World **2020**, 759-785		7
35	GIFT – A Global Inventory of Floras and Traits for macroecology and biogeography		7
34	Functional traits are key to understanding orchid diversity on islands. *Ecography*, **2021**, 44, 703-714	6.5	7
33	Environmental heterogeneity dynamics drive plant diversity on oceanic islands. *Journal of Biogeography*, **2020**, 47, 2248-2260	4.1	6
32	The role of fruit heteromorphism in the naturalization of Asteraceae. *Annals of Botany*, **2019**, 123, 1043-1052	4.1	5
31	Role of diversification rates and evolutionary history as a driver of plant naturalization success. *New Phytologist*, **2021**, 229, 2998-3008	9.8	5
30	Disharmony of the world's island floras		4
29	Towards an extended framework for the general dynamic theory of biogeography. *Journal of Biogeography*, **2020**, 47, 2554-2566	4.1	4
28	Scientific floras can be reliable sources for some trait data in a system with poor coverage in global trait databases. *Journal of Vegetation Science*, **2021**, 32, e12996	3.1	4
27	Persistent soil seed banks promote naturalisation and invasiveness in flowering plants. *Ecology Letters*, **2021**, 24, 1655-1667	10	4
26	Dimensions of invasiveness: Links between local abundance, geographic range size, and habitat breadth in Europe's alien and native floras. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
25	Latitudinal patterns of alien plant invasions. *Journal of Biogeography*, **2021**, 48, 253-262	4.1	4

24	Vascular epiphytes contribute disproportionately to global centres of plant diversity. *Global Ecology and Biogeography*, **2022**, 31, 62	6.1	4
23	Effects of land-use change and related pressures on alien and native subsets of island communities. *PLoS ONE*, **2020**, 15, e0227169	3.7	3
22	Synthesizing tree biodiversity data to understand global patterns and processes of vegetation. *Journal of Vegetation Science*, **2021**, 32, e13021	3.1	3
21	Legacy of archipelago history in modern island biodiversity An agent-based simulation model. *Global Ecology and Biogeography*, **2021**, 30, 247-261	6.1	3
20	The global loss of floristic uniqueness.. *Nature Communications*, **2021**, 12, 7290	17.4	2
19	The macroecology of island floras. *Frontiers of Biogeography*, **2015**, 7,	2.9	2
18	Biodiversity Data Integration: The significance of data resolution and domain. *Biodiversity Information Science and Standards*,3,		2
17	Mycorrhizal types influence island biogeography of plants. *Communications Biology*, **2021**, 4, 1128	6.7	2
16	Global Root Traits (GRooT) Database		2
15	Evolutionary winners are ecological losers among oceanic island plants. *Journal of Biogeography*, **2021**, 48, 2186-2198	4.1	2
14	Plant longevity, drought and island isolation favoured rampant evolutionary transitions towards insular woodiness		1
13	Environmental and socioeconomic correlates of extinction risk in endemic species. *Diversity and Distributions*, **2022**, 28, 53	5	1
12	Effects of land-use change and related pressures on alien and native subsets of island communities		1
11	Climate and socio-economic factors explain differences between observed and expected naturalization patterns of European plants around the world. *Global Ecology and Biogeography*, **2021**, 30, 1514-1531	6.1	1
10	Vascular epiphytes contribute disproportionately to global centres of plant diversity		1
9	bRacatus: A method to estimate the accuracy and biogeographical status of georeferenced biological data. *Methods in Ecology and Evolution*, **2021**, 12, 1609-1619	7.7	1
8	Potential alien ranges of European plants will shrink in the future, but less so for already naturalized than for not yet naturalized species. *Diversity and Distributions*, **2021**, 27, 2063	5	1
7	Phylogenetic structure of alien plant species pools from European donor habitats. *Global Ecology and Biogeography*, **2021**,	6.1	1

6	BIOVERA-Tree: tree diversity, community composition, forest structure and functional traits along gradients of forest-use intensity and elevation in Veracruz, Mexico. *Biodiversity Data Journal*, **2021**, 9, e69560	1.8	1
5	Plant Invasions in Africa **2022**, 225-252		1
4	European Plant Invasions **2022**, 151-165		1
3	Disentangling the drivers of local species richness using probabilistic species pools. *Journal of Biogeography*, **2020**, 47, 879-889	4.1	0
2	Anthropogenic and environmental drivers shape diversity of naturalized plants across the Pacific. *Diversity and Distributions*, **2021**, 27, 1120-1133	5	0
1	Niche properties constrain occupancy but not abundance patterns of native and alien woody species across Hawaiian forests. *Journal of Vegetation Science*, **2021**, 32, e13025	3.1	0