

Patrick Weigelt

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

8,429
citations

87886

38
h-index

54911

84
g-index

109
all docs

109
docs citations

109
times ranked

10568
citing authors

#	ARTICLE	IF	CITATIONS
1	No saturation in the accumulation of alien species worldwide. <i>Nature Communications</i> , 2017, 8, 14435.	12.8	1,543
2	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
3	Global exchange and accumulation of non-native plants. <i>Nature</i> , 2015, 525, 100-103.	27.8	746
4	Multidimensional biases, gaps and uncertainties in global plant occurrence information. <i>Ecology Letters</i> , 2016, 19, 992-1006.	6.4	358
5	Naturalized alien flora of the world. <i>Preslia</i> , 2017, 89, 203-274.	2.8	350
6	Global hotspots and correlates of alien species richness across taxonomic groups. <i>Nature Ecology and Evolution</i> , 2017, 1, .	7.8	315
7	The changing role of ornamental horticulture in alien plant invasions. <i>Biological Reviews</i> , 2018, 93, 1421-1437.	10.4	251
8	Bioclimatic and physical characterization of the world’s islands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15307-15312.	7.1	216
9	Late Quaternary climate change shapes island biodiversity. <i>Nature</i> , 2016, 532, 99-102.	27.8	190
10	The Global Naturalized Alien Flora (GloNAF) database. <i>Ecology</i> , 2019, 100, e02542.	3.2	189
11	A roadmap for island biology: 50 fundamental questions after 50 years of <i>The Theory of Island Biogeography</i> . <i>Journal of Biogeography</i> , 2017, 44, 963-983.	3.0	167
12	Quantifying island isolation – insights from global patterns of insular plant species richness. <i>Ecography</i> , 2013, 36, 417-429.	4.5	142
13	Global patterns and drivers of phylogenetic structure in island floras. <i>Scientific Reports</i> , 2015, 5, 12213.	3.3	123
14	GIFT – A Global Inventory of Floras and Traits for macroecology and biogeography. <i>Journal of Biogeography</i> , 2020, 47, 16-43.	3.0	121
15	Remoteness promotes biological invasions on islands worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9270-9275.	7.1	114
16	Oceanic island biogeography through the lens of the general dynamic model: assessment and prospect. <i>Biological Reviews</i> , 2017, 92, 830-853.	10.4	106
17	Plants capable of selfing are more likely to become naturalized. <i>Nature Communications</i> , 2016, 7, 13313.	12.8	91
18	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021, 30, 25-37.	5.8	90

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19	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
20	EpiList 1.0: a global checklist of vascular epiphytes. <i>Ecology</i> , 2021, 102, e03326.	3.2	82
21	Biodiversity data integration—the significance of data resolution and domain. <i>PLoS Biology</i> , 2019, 17, e3000183.	5.6	81
22	Economic use of plants is key to their naturalization success. <i>Nature Communications</i> , 2020, 11, 3201.	12.8	79
23	Mycorrhizal fungi influence global plant biogeography. <i>Nature Ecology and Evolution</i> , 2019, 3, 424-429.	7.8	74
24	Drivers of the relative richness of naturalized and invasive plant species on Earth. <i>AoB PLANTS</i> , 2019, 11, plz051.	2.3	72
25	Dissecting global turnover in vascular plants. <i>Global Ecology and Biogeography</i> , 2017, 26, 228-242.	5.8	71
26	The role of adaptive strategies in plant naturalization. <i>Ecology Letters</i> , 2018, 21, 1380-1389.	6.4	69
27	Species richness and biomass explain spatial turnover in ecosystem functioning across tropical and temperate ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150279.	4.0	66
28	Delineating probabilistic species pools in ecology and biogeography. <i>Global Ecology and Biogeography</i> , 2016, 25, 489-501.	5.8	57
29	Naturalization of European plants on other continents: The role of donor habitats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13756-13761.	7.1	57
30	Biogeographic, climatic and spatial drivers differentially affect α -, β - and γ -diversities on oceanic archipelagos. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20133246.	2.6	53
31	Make EU trade with Brazil sustainable. <i>Science</i> , 2019, 364, 341-341.	12.6	49
32	Snapshot isolation and isolation history challenge the analogy between mountains and islands used to understand endemism. <i>Global Ecology and Biogeography</i> , 2020, 29, 1651-1673.	5.8	49
33	Differential effects of environmental heterogeneity on global mammal species richness. <i>Global Ecology and Biogeography</i> , 2015, 24, 1072-1083.	5.8	48
34	Differences in species-area relationships among the major lineages of land plants: a macroecological perspective. <i>Global Ecology and Biogeography</i> , 2014, 23, 1275-1283.	5.8	47
35	Domestic gardens play a dominant role in selecting alien species with adaptive strategies that facilitate naturalization. <i>Global Ecology and Biogeography</i> , 2019, 28, 628-639.	5.8	47
36	Dimensions of invasiveness: Links between local abundance, geographic range size, and habitat breadth in Europe's alien and native floras. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	47

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37	European ornamental garden flora as an invasion debt under climate change. <i>Journal of Applied Ecology</i> , 2018, 55, 2386-2395.	4.0	45
38	Diversity and vertical distribution of epiphytic macrolichens in lowland rain forest and lowland cloud forest of French Guiana. <i>Ecological Indicators</i> , 2010, 10, 1111-1118.	6.3	44
39	Naturalization of ornamental plant species in public green spaces and private gardens. <i>Biological Invasions</i> , 2017, 19, 3613-3627.	2.4	44
40	Island disharmony revisited using orchids as a model group. <i>New Phytologist</i> , 2019, 223, 597-606.	7.3	44
41	Current climate, isolation and history drive global patterns of tree phylogenetic endemism. <i>Global Ecology and Biogeography</i> , 2020, 29, 4-15.	5.8	43
42	Vascular epiphytes contribute disproportionately to global centres of plant diversity. <i>Global Ecology and Biogeography</i> , 2022, 31, 62-74.	5.8	43
43	Global fern and lycophyte richness explained: How regional and local factors shape plot richness. <i>Journal of Biogeography</i> , 2020, 47, 59-71.	3.0	40
44	The global loss of floristic uniqueness. <i>Nature Communications</i> , 2021, 12, 7290.	12.8	39
45	Factors controlling the abundance of lianas along an altitudinal transect of tropical forests in Ecuador. <i>Forest Ecology and Management</i> , 2010, 259, 1399-1405.	3.2	37
46	Tall-statured grasses: a useful functional group for invasion science. <i>Biological Invasions</i> , 2019, 21, 37-58.	2.4	36
47	Island biogeography from regional to local scales: evidence for a spatially scaled echo pattern of fern diversity in the Southeast Asian archipelago. <i>Journal of Biogeography</i> , 2014, 41, 250-260.	3.0	33
48	What Will the Future Bring for Biological Invasions on Islands? An Expert-Based Assessment. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	33
49	Species-area relationships on small islands differ among plant growth forms. <i>Global Ecology and Biogeography</i> , 2020, 29, 814-829.	5.8	30
50	Source pools and disharmony of the world's island floras. <i>Ecography</i> , 2021, 44, 44-55.	4.5	30
51	Persistent soil seed banks promote naturalisation and invasiveness in flowering plants. <i>Ecology Letters</i> , 2021, 24, 1655-1667.	6.4	30
52	Why tree lines are lower on islands? Climatic and biogeographic effects hold the answer. <i>Global Ecology and Biogeography</i> , 2019, 28, 839-850.	5.8	28
53	Latitudinal patterns of alien plant invasions. <i>Journal of Biogeography</i> , 2021, 48, 253-262.	3.0	28
54	Environmental heterogeneity dynamics drive plant diversity on oceanic islands. <i>Journal of Biogeography</i> , 2020, 47, 2248-2260.	3.0	24

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55	Resource stoichiometry and availability modulate species richness and biomass of tropical litter macroinvertebrates. <i>Journal of Animal Ecology</i> , 2017, 86, 1114-1123.	2.8	22
56	Similar factors underlie tree abundance in forests in native and alien ranges. <i>Global Ecology and Biogeography</i> , 2020, 29, 281-294.	5.8	21
57	Functional traits are key to understanding orchid diversity on islands. <i>Ecography</i> , 2021, 44, 703-714.	4.5	20
58	Will climate change increase hybridization risk between potential plant invaders and their congeners in Europe?. <i>Diversity and Distributions</i> , 2017, 23, 934-943.	4.1	19
59	Disentangling native and alien plant diversity in coastal sand dune ecosystems worldwide. <i>Journal of Vegetation Science</i> , 2021, 32, .	2.2	19
60	Role of diversification rates and evolutionary history as a driver of plant naturalization success. <i>New Phytologist</i> , 2021, 229, 2998-3008.	7.3	19
61	Evolutionary winners are ecological losers among oceanic island plants. <i>Journal of Biogeography</i> , 2021, 48, 2186-2198.	3.0	18
62	The general dynamic model of island biogeography revisited at the level of major flowering plant families. <i>Journal of Biogeography</i> , 2017, 44, 1029-1040.	3.0	17
63	Autofertility and self-compatibility moderately benefit island colonization of plants. <i>Global Ecology and Biogeography</i> , 2019, 28, 341-352.	5.8	17
64	Synthesizing tree biodiversity data to understand global patterns and processes of vegetation. <i>Journal of Vegetation Science</i> , 2021, 32, e13021.	2.2	17
65	Island floras are not necessarily more species poor than continental ones. <i>Journal of Biogeography</i> , 2015, 42, 8-10.	3.0	16
66	Facultative mycorrhizal associations promote plant naturalization worldwide. <i>Ecosphere</i> , 2019, 10, e02937.	2.2	16
67	Environmental and socioeconomic correlates of extinction risk in endemic species. <i>Diversity and Distributions</i> , 2022, 28, 53-64.	4.1	16
68	Scientific floras can be reliable sources for some trait data in a system with poor coverage in global trait databases. <i>Journal of Vegetation Science</i> , 2021, 32, e12996.	2.2	14
69	Introduction history mediates naturalization and invasiveness of cultivated plants. <i>Global Ecology and Biogeography</i> , 2022, 31, 1104-1119.	5.8	14
70	<sc>bRacatus</sc>: A method to estimate the accuracy and biogeographical status of georeferenced biological data. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1609-1619.	5.2	13
71	Effects of land-use change and related pressures on alien and native subsets of island communities. <i>PLoS ONE</i> , 2020, 15, e0227169.	2.5	13
72	Contrasting patterns of naturalized plant richness in the Americas: Numbers are higher in the North but expected to rise sharply in the South. <i>Global Ecology and Biogeography</i> , 2019, 28, 779-783.	5.8	12

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73	Mycorrhizal types influence island biogeography of plants. <i>Communications Biology</i> , 2021, 4, 1128.	4.4	12
74	Characteristics of the naturalized flora of Southern Africa largely reflect the non-random introduction of alien species for cultivation. <i>Ecography</i> , 2021, 44, 1812-1825.	4.5	12
75	Climatic and biogeographical drivers of functional diversity in the flora of the Canary Islands. <i>Global Ecology and Biogeography</i> , 2022, 31, 1313-1331.	5.8	12
76	The role of fruit heteromorphism in the naturalization of Asteraceae. <i>Annals of Botany</i> , 2019, 123, 1043-1052.	2.9	11
77	A global test of the subsidized island biogeography hypothesis. <i>Global Ecology and Biogeography</i> , 2020, 29, 320-330.	5.8	10
78	South Africa as a Donor of Naturalised and Invasive Plants to Other Parts of the World. , 2020, , 759-785.		10
79	Plant Invasions in Africa. , 2022, , 225-252.		9
80	Anthropogenic and environmental drivers shape diversity of naturalized plants across the Pacific. <i>Diversity and Distributions</i> , 2021, 27, 1120-1133.	4.1	8
81	Climate and socio-economic factors explain differences between observed and expected naturalization patterns of European plants around the world. <i>Global Ecology and Biogeography</i> , 2021, 30, 1514-1531.	5.8	8
82	Biodiversity Data Integration: The significance of data resolution and domain. <i>Biodiversity Information Science and Standards</i> , 0, 3, .	0.0	8
83	Potential alien ranges of European plants will shrink in the future, but less so for already naturalized than for not yet naturalized species. <i>Diversity and Distributions</i> , 2021, 27, 2063-2076.	4.1	7
84	Phylogenetic structure of alien plant species pools from European donor habitats. <i>Global Ecology and Biogeography</i> , 2021, 30, 2354-2367.	5.8	7
85	Towards an extended framework for the general dynamic theory of biogeography. <i>Journal of Biogeography</i> , 2020, 47, 2554-2566.	3.0	6
86	Legacy of archipelago history in modern island biodiversity – An agent-based simulation model. <i>Global Ecology and Biogeography</i> , 2021, 30, 247-261.	5.8	6
87	Niche properties constrain occupancy but not abundance patterns of native and alien woody species across Hawaiian forests. <i>Journal of Vegetation Science</i> , 2021, 32, e13025.	2.2	4
88	BotanizeR: A flexible R package with Shiny app to practice plant identification for online teaching and beyond. <i>Plants People Planet</i> , 0, , .	3.3	4
89	Biovera-Epi: A new database on species diversity, community composition and leaf functional traits of vascular epiphytes along gradients of elevation and forest-use intensity in Mexico. <i>Biodiversity Data Journal</i> , 2021, 9, e71974.	0.8	4
90	European Plant Invasions. , 2022, , 151-165.		3

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91	Disentangling the drivers of local species richness using probabilistic species pools. <i>Journal of Biogeography</i> , 2020, 47, 879-889.	3.0	2
92	BIOVERA-Tree: tree diversity, community composition, forest structure and functional traits along gradients of forest-use intensity and elevation in Veracruz, Mexico. <i>Biodiversity Data Journal</i> , 2021, 9, e69560.	0.8	2
93	The macroecology of island floras. <i>Frontiers of Biogeography</i> , 2015, 7, .	1.8	2
94	Island area and historical geomorphological dynamics shape multifaceted diversity of barrier island floras. <i>Ecography</i> , 2022, 2022, .	4.5	1
95	Introducing the Combined Atlas Framework for large-scale web-based data visualization – The GloNAF Atlas of Plant Invasion. <i>Methods in Ecology and Evolution</i> , 0, , .	5.2	0