

# Petr Petřák

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

3,339  
citations

218677

26  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

6035  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microclimate moderates plant responses to macroclimate warming. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18561-18565.	7.1	523
2	Global trait–environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917.	7.8	397
3	Forest microclimate dynamics drive plant responses to warming. Science, 2020, 368, 772-775.	12.6	385
4	Driving factors behind the eutrophication signal in understorey plant communities of deciduous temperate forests. Journal of Ecology, 2012, 100, 352-365.	4.0	214
5	sPlot – A new tool for global vegetation analyses. Journal of Vegetation Science, 2019, 30, 161-186.	2.2	185
6	Early stage litter decomposition across biomes. Science of the Total Environment, 2018, 628-629, 1369-1394.	8.0	177
7	Drivers of temporal changes in temperate forest plant diversity vary across spatial scales. Global Change Biology, 2015, 21, 3726-3737.	9.5	124
8	Vegetation succession in restoration of disturbed sites in Central Europe: the direction of succession and species richness across 19 seres. Applied Vegetation Science, 2014, 17, 193-200.	1.9	123
9	Global environmental change effects on plant community composition trajectories depend upon management legacies. Global Change Biology, 2018, 24, 1722-1740.	9.5	93
10	Combining Biodiversity Resurveys across Regions to Advance Global Change Research. BioScience, 2017, 67, 73-83.	4.9	89
11	Pladias Database of the Czech flora and vegetation. Preslia, 2021, 93, 1-87.	2.8	86
12	Poleward migration of the destructive effects of tropical cyclones during the 20th century. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11543-11548.	7.1	71
13	Replacements of small- by large-ranged species scale up to diversity loss in Europe’s temperate forest biome. Nature Ecology and Evolution, 2020, 4, 802-808.	7.8	67
14	Observer and relocation errors matter in resurveys of historical vegetation plots. Journal of Vegetation Science, 2018, 29, 812-823.	2.2	51
15	Understanding context dependency in the response of forest understorey plant communities to nitrogen deposition. Environmental Pollution, 2018, 242, 1787-1799.	7.5	49
16	sPlotOpen – An environmentally balanced, open-access, global dataset of vegetation plots. Global Ecology and Biogeography, 2021, 30, 1740-1764.	5.8	49
17	Life stage, not climate change, explains observed tree range shifts. Global Change Biology, 2016, 22, 1904-1914.	9.5	46
18	Plant distribution data for the Czech Republic integrated in the Pladias database. Preslia, 2019, 91, 1-24.	2.8	42

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19	Robinia pseudoacacia-dominated vegetation types of Southern Europe: Species composition, history, distribution and management. <i>Science of the Total Environment</i> , 2020, 707, 134857.	8.0	41
20	Using long-term ecosystem service and biodiversity data to study the impacts and adaptation options in response to climate change: insights from the global ILTER sites network. <i>Current Opinion in Environmental Sustainability</i> , 2013, 5, 53-66.	6.3	39
21	Directional turnover towards larger-ranged plants over time and across habitats. <i>Ecology Letters</i> , 2022, 25, 466-482.	6.4	39
22	Vegetation Succession on River Sediments along the Nakdong River, South Korea. <i>Folia Geobotanica</i> , 2014, 49, 507-519.	0.9	33
23	Botanical survey and screening of plant species which accumulate <sup>226</sup> Ra from contaminated soil of uranium waste depot. <i>European Journal of Soil Biology</i> , 2007, 43, 251-261.	3.2	32
24	Recording effort biases the species richness cited in plant distribution atlases. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2010, 12, 57-65.	2.7	29
25	Plant movements and climate warming: intraspecific variation in growth responses to nonlocal soils. <i>New Phytologist</i> , 2014, 202, 431-441.	7.3	29
26	Plant Diversity Changes during the Postglacial in East Asia: Insights from Forest Refugia on Halla Volcano, Jeju Island. <i>PLoS ONE</i> , 2012, 7, e33065.	2.5	29
27	Long-term patterns in soil acidification due to pollution in forests of the Eastern Sudetes Mountains. <i>Environmental Pollution</i> , 2011, 159, 2586-2593.	7.5	26
28	Environmental correlates of plant diversity in Korean temperate forests. <i>Acta Oecologica</i> , 2013, 47, 37-45.	1.1	26
29	Classification of Korean forests: patterns along geographic and environmental gradients. <i>Applied Vegetation Science</i> , 2015, 18, 5-22.	1.9	26
30	Impact of invasive and native dominants on species richness and diversity of plant communities. <i>Preslia</i> , 2021, 93, 181-201.	2.8	26
31	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
32	<sup>226</sup> Ra uptake from soils into different plant species. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2004, 262, 187-189.	1.5	19
33	A model-based approach to studying changes in compositional heterogeneity. <i>Methods in Ecology and Evolution</i> , 2014, 5, 156-164.	5.2	19
34	Tree growth response to recent warming of two endemic species in Northeast Asia. <i>Climatic Change</i> , 2020, 162, 1345-1364.	3.6	18
35	Two faces of parks. <i>Preslia</i> , 2020, 92, 353-373.	2.8	14
36	Historical charcoal burning and coppicing suppressed beech and increased forest vegetation heterogeneity. <i>Journal of Vegetation Science</i> , 2021, 32, .	2.2	13

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37	Species groups can be transferred across different scales. <i>Journal of Biogeography</i> , 2006, 33, 1628-1642.	3.0	11
38	Responses of competitive understorey species to spatial environmental gradients inaccurately explain temporal changes. <i>Basic and Applied Ecology</i> , 2018, 30, 52-64.	2.7	11
39	Habitat requirements of <i>Cardaminopsis petraea</i> â€” Rare and relict species of the Czech Republic. <i>Biologia (Poland)</i> , 2006, 61, 51-61.	1.5	10
40	Distributions of vascular plants in the Czech Republic. Part 7. <i>Preslia</i> , 2018, 90, 425-531.	2.8	10
41	It is time to change land use and landscape management in the czech republic. <i>Ecosystem Health and Sustainability</i> , 2015, 1, 1-6.	3.1	8
42	Composition patterns of ornamental flora in the Czech Republic. <i>NeoBiota</i> , 0, 52, 87-109.	1.0	8
43	Vegetation with <i>Gagea bohemica</i> in the landscape context. <i>Plant Biosystems</i> , 2011, 145, 570-583.	1.6	6
44	Forests and Climate Change in Czechia: an Appeal to Responsibility. <i>Journal of Landscape Ecology(Czech Republic)</i> , 2018, 11, 3-16.	0.9	5
45	Reply to Harwood et al.: Thermophilization estimation is robust to the scale of species distribution data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1166-E1166.	7.1	4
46	Thermal differences between juveniles and adults increased over time in European forest trees. <i>Journal of Ecology</i> , 2021, 109, 3944-3957.	4.0	4
47	Response to Comment on â€œForest microclimate dynamics drive plant responses to warmingâ€• <i>Science</i> , 2020, 370, .	12.6	3
48	Vegetation with <i>Aira praecox</i> in the Czech Republic compared to its variability in Western Europe. <i>Phytocoenologia</i> , 2007, 37, 115-134.	0.5	2
49	Flora of toxic depots in selected industrial zones. <i>Acta Societatis Botanicorum Poloniae</i> , 2011, 78, 327-334.	0.8	2
50	Korean Forest Database. <i>Biodiversity and Ecology = Biodiversitat Und Okologie</i> , 2012, 4, 300-301.	0.3	2
51	Combining numerical and traditional approaches to classify <i>Echinops sphaerocephalus</i> invaded communities in the Czech Republic. <i>Phytocoenologia</i> , 2009, 39, 253-264.	0.5	1
52	Response to Comment on â€œForest microclimate dynamics drive plant responses to warmingâ€• <i>Science</i> , 2020, 370, .	12.6	1
53	Tropical Cyclone Disturbances Induce Contrasting Impacts on Forest Structure, Plant Composition, and Soil Properties in Temperate Broadleaf and Coniferous Forests. <i>Forests</i> , 2022, 13, 1033.	2.1	1
54	Editorial to The Monothematic Issue of <i>Jle: Forests and Climate Change</i> â€œ How to Take Responsibility?. <i>Journal of Landscape Ecology(Czech Republic)</i> , 2018, 11, 1-2.	0.9	0