

# Zoltn Botta-Dukt

## List of Publications by Year in descending order

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Version: 2024-02-01

112  
papers

5,866  
citations

147801

31  
h-index

82547

72  
g-index

118  
all docs

118  
docs citations

118  
times ranked

8847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endangered lowland oak forest steppe remnants keep unique bird species richness in Central Hungary. <i>Journal of Forestry Research</i> , 2022, 33, 343-355.	3.6	3
2	Devil in the details: how can we avoid potential pitfalls of CATS regression when our data do not follow a Poisson distribution?. <i>PeerJ</i> , 2022, 10, e12763.	2.0	1
3	Weed Composition in Hungarian Phacelia ( <i>Phacelia tanacetifolia</i> Benth.) Seed Production: Could Tine Harrow Take over Chemical Management?. <i>Agronomy</i> , 2022, 12, 891.	3.0	5
4	Towards a more balanced combination of multiple traits when computing functional differences between species. <i>Methods in Ecology and Evolution</i> , 2021, 12, 443-448.	5.2	84
5	Comparison of silhouette-based reallocation methods for vegetation classification. <i>Journal of Vegetation Science</i> , 2021, 32, e12984.	2.2	3
6	Optimal pooling of data for the reliable estimation of trait probability distributions. <i>Global Ecology and Biogeography</i> , 2021, 30, 1344-1352.	5.8	2
7	Disturbance reshapes the productivity-diversity relationship. <i>Journal of Vegetation Science</i> , 2021, 32, e13030.	2.2	2
8	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
9	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
10	Are traits drivers or consequences of competition? Comments to Carmona et al. <i>Journal of Ecology</i> , 2021, 109, 2540-2549.	4.0	1
11	Changing assembly rules during secondary succession: evidence for non-random patterns. <i>Basic and Applied Ecology</i> , 2021, 52, 46-56.	2.7	6
12	Intersexual segregation in winter foraging of great spotted woodpecker <i>Dendrocopos major</i> in riparian forests infested with invasive tree species. <i>Scandinavian Journal of Forest Research</i> , 2021, 36, 354-363.	1.4	0
13	Woodpecker foraging activity in oak-dominated hill forests in Hungary. <i>Ornis Hungarica</i> , 2021, 29, 82-97.	0.4	0
14	Conservation biology research priorities for 2050: A Central-Eastern European perspective. <i>Biological Conservation</i> , 2021, 264, 109396.	4.1	8
15	Trait-based numerical classification of mesic and wet grasslands in Poland. <i>Journal of Vegetation Science</i> , 2020, 31, 319-330.	2.2	7
16	Trait convergence and trait divergence in lake phytoplankton reflect community assembly rules. <i>Scientific Reports</i> , 2020, 10, 19599.	3.3	15
17	Plantation forests cannot support the richness of forest specialist plants in the forest-steppe zone. <i>Forest Ecology and Management</i> , 2020, 461, 117964.	3.2	27
18	Different impacts of moderate human land use on the plant biodiversity of the characteristic Pannonian habitat complexes. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2020, 267, 151591.	1.2	2

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19	The potential of common ragweed for further spread: invasibility of different habitats and the role of disturbances and propagule pressure. <i>Biological Invasions</i> , 2019, 21, 137-149.	2.4	12
20	Aerobic anoxygenic phototrophs are highly abundant in hypertrophic and polyhumic waters. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	8
21	Trait-based community assembly of epiphytic diatoms in saline astatic ponds: a test of the stress-dominance hypothesis. <i>Scientific Reports</i> , 2019, 9, 15749.	3.3	13
22	sPlot – A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , 2019, 30, 161-186.	2.2	185
23	Trait-based approach confirms the importance of propagule limitation and assembly rules in old-field restoration. <i>Restoration Ecology</i> , 2019, 27, 840-849.	2.9	18
24	Silhouette width using generalized mean – A flexible method for assessing clustering efficiency. <i>Ecology and Evolution</i> , 2019, 9, 13231-13243.	1.9	52
25	Drivers of <i>Ambrosia artemisiifolia</i> abundance in arable fields along the Austrian-Hungarian border. <i>Preslia</i> , 2019, 91, 369-389.	2.8	7
26	Joint optimization of cluster number and abundance transformation for obtaining effective vegetation classifications. <i>Journal of Vegetation Science</i> , 2018, 29, 336-347.	2.2	13
27	Reduction in primary production followed by rapid recovery of plant biomass in response to repeated mid-season droughts in a semiarid shrubland. <i>Plant Ecology</i> , 2018, 219, 517-526.	1.6	3
28	The generalized replication principle and the partitioning of functional diversity into independent alpha and beta components. <i>Ecography</i> , 2018, 41, 40-50.	4.5	19
29	When herbicides don't really matter: Weed species composition of oil pumpkin ( <i>Cucurbita pepo</i> L.) fields in Hungary. <i>Crop Protection</i> , 2018, 110, 236-244.	2.1	6
30	On the reliability of the Elements of Metacommunity Structure framework for separating idealized metacommunity patterns. <i>Ecological Indicators</i> , 2018, 85, 853-860.	6.3	23
31	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	7.8	397
32	The effect of abandonment on vegetation composition and soil properties in Molinion meadows (SW) Tj ETQq0 0 0,rgBT /Overlock 10 T	2.5	31
33	Cautionary note on calculating standardized effect size (SES) in randomization test. <i>Community Ecology</i> , 2018, 19, 77-83.	0.9	42
34	Prevalence dependence in model goodness measures with special emphasis on true skill statistics. <i>Ecology and Evolution</i> , 2017, 7, 863-872.	1.9	81
35	Estimating aboveground herbaceous plant biomass via proxies: The confounding effects of sampling year and precipitation. <i>Ecological Indicators</i> , 2017, 79, 355-360.	6.3	15
36	Comparing the accuracy of three non-destructive methods in estimating aboveground plant biomass. <i>Community Ecology</i> , 2017, 18, 56-62.	0.9	13

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37	Alien plant invasions in European woodlands. <i>Diversity and Distributions</i> , 2017, 23, 969-981.	4.1	98
38	A higher-level classification of the Pannonian and western Pontic steppe grasslands (Central and Eastern Europe). <i>Journal of Vegetation Science</i> , 2017, 28, 101-110.	1.9	46
39	Unusual behaviour of phototrophic picoplankton in turbid waters. <i>PLoS ONE</i> , 2017, 12, e0174316.	2.5	13
40	A performance comparison of sampling methods in the assessment of species composition patterns and environmental-vegetation relationships in species-rich grasslands. <i>Acta Societatis Botanicorum Poloniae</i> , 2017, 86, .	0.8	11
41	Testing the ability of functional diversity indices to detect trait convergence and divergence using individual-based simulation. <i>Methods in Ecology and Evolution</i> , 2016, 7, 114-126.	5.2	80
42	New plant trait records of the Hungarian flora. <i>Acta Botanica Hungarica</i> , 2016, 58, 397-400.	0.3	21
43	Morphological plasticity in the rhizome system of <i>Solidago gigantea</i> (Asteraceae): Comparison of populations in a wet and a dry habitat. <i>Acta Botanica Hungarica</i> , 2016, 58, 227-240.	0.3	4
44	Tree plantations are hot-spots of plant invasion in a landscape with heterogeneous land-use. <i>Agriculture, Ecosystems and Environment</i> , 2016, 226, 88-98.	5.3	32
45	European Vegetation Archive (EVA): an integrated database of European vegetation plots. <i>Applied Vegetation Science</i> , 2016, 19, 173-180.	1.9	247
46	Which randomizations detect convergence and divergence in trait-based community assembly? A test of commonly used null models. <i>Journal of Vegetation Science</i> , 2016, 27, 1275-1287.	2.2	73
47	Weed species composition of conventional soyabean crops in Hungary is determined by environmental, cultural, weed management and site variables. <i>Weed Research</i> , 2016, 56, 470-481.	1.7	14
48	Temperature Dependence of Soil Respiration Modulated by Thresholds in Soil Water Availability Across European Shrubland Ecosystems. <i>Ecosystems</i> , 2016, 19, 1460-1477.	3.4	25
49	Changes in assembly rules along a stress gradient from open dry grasslands to wetlands. <i>Journal of Ecology</i> , 2016, 104, 507-517.	4.0	60
50	Robust coexistence and population regulation. <i>Journal of Ecology</i> , 2016, 104, 170-199.		0
51	Population structure and exponential growth. <i>Journal of Ecology</i> , 2016, 104, 48-70.		0
52	Growth regulation, feedbacks, and their dynamical consequences. <i>Journal of Ecology</i> , 2016, 104, 95-120.		0
53	Diversity patterns and population regulation. <i>Journal of Ecology</i> , 2016, 104, 250-274.		0
54	Stochasticity due to finiteness. <i>Journal of Ecology</i> , 2016, 104, 231-249.		0

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55	Ecological tolerance and the distribution of species. , 2016, , 71-92.		0
56	Exponential growth of unstructured populations. , 2016, , 33-47.		0
57	Trade-offs and adaptations. , 2016, , 144-169.		0
58	Population regulation and the ecological niche. , 2016, , 200-228.		0
59	Sources and treatment of complexity. , 2016, , 18-30.		0
60	A comparative framework for broad-scale plot-based vegetation classification. Applied Vegetation Science, 2015, 18, 543-560.	1.9	126
61	Use of mesotrione and tembotrione herbicides for post-emergence weed control in alkaloid poppy ( <i>Papaver somniferum</i> ). International Journal of Pest Management, 2014, 60, 187-195.	1.8	8
62	The impact of management on weeds and aquatic plant communities in Hungarian rice crops. Weed Research, 2014, 54, 388-397.	1.7	13
63	People move but cultivated plants stay: abandoned farmsteads support the persistence and spread of alien plants. Biodiversity and Conservation, 2014, 23, 1289-1302.	2.6	21
64	Semi-supervised classification of vegetation: preserving the good old units and searching for new ones. Journal of Vegetation Science, 2014, 25, 1504-1512.	2.2	41
65	Long-term weather sensitivity of open sand grasslands of the Kiskunság Sand Ridge forest-steppe mosaic after wildfires. Community Ecology, 2014, 15, 121-129.	0.9	5
66	Composition and Diversity of Lawn Flora in Differently Managed Village Yards – A Case Study from Southwestern Hungary. Folia Geobotanica, 2013, 48, 209-227.	0.9	3
67	Exploring the relationship between macrofungi diversity, abundance, and vascular plant diversity in semi-natural and managed forests in north-east Hungary. Ecological Research, 2013, 28, 543-552.	1.5	6
68	Spatial Pattern and Temporal Dynamics of Bryophyte Assemblages in Saline Grassland. Folia Geobotanica, 2013, 48, 189-207.	0.9	4
69	Conceptual Frameworks and Methods for Advancing Invasion Ecology. Ambio, 2013, 42, 527-540.	5.5	62
70	Relating <i>Ambrosia artemisiifolia</i> and other weeds to the management of Hungarian sunflower crops. Journal of Pest Science, 2013, 86, 621-631.	3.7	13
71	Can management intensity be more important than environmental factors? A case study along an extreme elevation gradient from central Italian cereal fields. Plant Biosystems, 2013, 147, 343-353.	1.6	20
72	Phenotypic divergences induced by different residence time in invasive common ragweeds. Journal of Plant Ecology, 2012, 5, 174-181.	2.3	11

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73	How do locally infrequent species influence numerical classification? A simulation study. <i>Community Ecology</i> , 2012, 13, 64-71.	0.9	5
74	Using the natural capital index framework as a scalable aggregation methodology for regional biodiversity indicators. <i>Journal for Nature Conservation</i> , 2012, 20, 144-152.	1.8	20
75	The influence of environment, management and site context on species composition of summer arable weed vegetation in Hungary. <i>Applied Vegetation Science</i> , 2012, 15, 136-144.	1.9	57
76	Co-occurrence-based measure of species' habitat specialization: robust, unbiased estimation in saturated communities. <i>Journal of Vegetation Science</i> , 2012, 23, 201-207.	2.2	18
77	CoenoDat Hungarian Phytosociological Database. <i>Biodiversity and Ecology = Biodiversitat Und Okologie</i> , 2012, 4, 394-394.	0.3	1
78	Hard traits of three <i>Bromus</i> species in their source area explain their current invasive success. <i>Acta Oecologica</i> , 2011, 37, 441-448.	1.1	11
79	Thresholds and interactive effects of soil moisture on the temperature response of soil respiration. <i>European Journal of Soil Biology</i> , 2011, 47, 247-255.	3.2	82
80	Patterns of plant trait-environment relationships along a forest succession chronosequence. <i>Agriculture, Ecosystems and Environment</i> , 2011, 145, 38-48.	5.3	79
81	Weed vegetation of poppy ( <i>Papaver somniferum</i> ) fields in Hungary: effects of management and environmental factors on species composition. <i>Weed Research</i> , 2011, 51, 621-630.	1.7	28
82	Hungarian landscape types: classification of landscapes based on the relative cover of (semi-) natural habitats. <i>Applied Vegetation Science</i> , 2011, 14, 537-546.	1.9	15
83	An indicator framework for the climatic adaptive capacity of natural ecosystems. <i>Journal of Vegetation Science</i> , 2011, 22, 711-725.	2.2	14
84	Effects of environmental factors on weed species composition of cereal and stubble fields in western Hungary. <i>Open Life Sciences</i> , 2010, 5, 283-292.	1.4	28
85	Do short-lived and long-lived alien plant species differ regarding the traits associated with their success in the introduced range?. <i>Biological Invasions</i> , 2010, 12, 611-623.	2.4	10
86	OptimClass: Using species-to-cluster fidelity to determine the optimal partition in classification of ecological communities. <i>Journal of Vegetation Science</i> , 2010, 21, 287-299.	2.2	88
87	Weed vegetation and its conservation value in three management systems of Hungarian winter cereals on base-rich soils. <i>Weed Research</i> , 2009, 49, 544-551.	1.7	24
88	Density-dependence in the establishment of juvenile <i>Allium ursinum</i> individuals in a monodominant stand of conspecific adults. <i>Acta Oecologica</i> , 2009, 35, 621-629.	1.1	9
89	Alien species in a warmer world: risks and opportunities. <i>Trends in Ecology and Evolution</i> , 2009, 24, 686-693.	8.7	1,031
90	Patch and landscape factors affecting the naturalness-based quality of three model grassland habitats in Hungary. <i>Acta Botanica Hungarica</i> , 2008, 50, 179-197.	0.3	6

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91	Invasion of alien species to Hungarian (semi-)natural habitats. <i>Acta Botanica Hungarica</i> , 2008, 50, 219-227.	0.3	51
92	Grazing Effects on Vegetation Composition and on the Spread of Fire on Open Sand Grasslands. <i>Arid Land Research and Management</i> , 2008, 22, 273-285.	1.6	15
93	Validation of hierarchical classifications by splitting dataset. <i>Acta Botanica Hungarica</i> , 2008, 50, 73-80.	0.3	2
94	Growth of <i>Himantoglossum adriaticum</i> and <i>H. caprinum</i> individuals, and relationship between sizes and flowering. <i>Acta Botanica Hungarica</i> , 2008, 50, 257-274.	0.3	4
95	The natural capital index of Hungary. <i>Acta Botanica Hungarica</i> , 2008, 50, 161-177.	0.3	19
96	Experimental warming does not enhance soil respiration in a semiarid temperate forest-steppe ecosystem. <i>Community Ecology</i> , 2008, 9, 29-37.	0.9	43
97	Assembly rules during old-field succession in two contrasting environments. <i>Community Ecology</i> , 2007, 8, 31-40.	0.9	11
98	Semi-dry grasslands along a climatic gradient across Central Europe: Vegetation classification with validation. <i>Journal of Vegetation Science</i> , 2007, 18, 835-846.	2.2	36
99	A grid-based, satellite-image supported, multi-attributed vegetation mapping method (MATA). <i>Folia Geobotanica</i> , 2007, 42, 225-247.	0.9	75
100	Statistical and biological consequences of preferential sampling in phytosociology: Theoretical considerations and a case study. <i>Folia Geobotanica</i> , 2007, 42, 141-152.	0.9	23
101	Semi-dry grasslands along a climatic gradient across Central Europe: Vegetation classification with validation. <i>Journal of Vegetation Science</i> , 2007, 18, 835.	2.2	7
102	Effects of simulated grazing on open perennial sand grassland. <i>Community Ecology</i> , 2006, 7, 133-141.	0.9	11
103	ANALYSING ASSOCIATIONS AMONG MORE THAN TWO SPECIES. <i>Applied Ecology and Environmental Research</i> , 2006, 4, 1-19.	0.5	4
104	Rao's quadratic entropy as a measure of functional diversity based on multiple traits. <i>Journal of Vegetation Science</i> , 2005, 16, 533-540.	2.2	896
105	Rao's quadratic entropy as a measure of functional diversity based on multiple traits. <i>Journal of Vegetation Science</i> , 2005, 16, 533.	2.2	47
106	Determinants of floating island vegetation and succession in a recently flooded shallow lake, Kis-Balaton (Hungary). <i>Aquatic Botany</i> , 2004, 79, 357-366.	1.6	17
107	Invasion Gateways and Corridors in the Carpathian Basin: Biological Invasions in Hungary. <i>Biological Invasions</i> , 2003, 5, 349-356.	2.4	68
108	On the possible role of local effects on the species richness of acidic and calcareous rock grasslands in northern Hungary. <i>Folia Geobotanica</i> , 2003, 38, 453-467.	0.9	8

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109	Assemblage structure and habitat use of fishes in a Central European submontane stream: a patch-based approach. <i>Ecology of Freshwater Fish</i> , 2003, 12, 141-150.	1.4	47
110	Determination of diagnostic species with statistical fidelity measures. <i>Journal of Vegetation Science</i> , 2002, 13, 79-90.	2.2	589
111	Determination of diagnostic species with statistical fidelity measures. <i>Journal of Vegetation Science</i> , 2002, 13, 79.	2.2	27
112	Improved space-for-time substitution for hypothesis generation: secondary grasslands with documented site history in SE-Hungary. <i>Phytocoenologia</i> , 1998, 28, 1-29.	0.5	65