

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	Alien species in a warmer world: risks and opportunities. <i>Trends in Ecology and Evolution</i> , 2009, 24, 686-693.	8.7	1,031
2	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
3	Determination of diagnostic species with statistical fidelity measures. <i>Journal of Vegetation Science</i> , 2002, 13, 79-90.	2.2	589
4	Global trait–environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	7.8	397
5	European Vegetation Archive (EVA): an integrated database of European vegetation plots. <i>Applied Vegetation Science</i> , 2016, 19, 173-180.	1.9	247
6	sPlot – A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , 2019, 30, 161-186.	2.2	185
7	A comparative framework for broad-scale plot-based vegetation classification. <i>Applied Vegetation Science</i> , 2015, 18, 543-560.	1.9	126
8	Alien plant invasions in European woodlands. <i>Diversity and Distributions</i> , 2017, 23, 969-981.	4.1	98
9	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
10	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
11	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
12	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
13	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
14	Patterns of plant trait–environment relationships along a forest succession chronosequence. <i>Agriculture, Ecosystems and Environment</i> , 2011, 145, 38-48.	5.3	79
15	A grid-based, satellite-image supported, multi-attributed vegetation mapping method (M ² TA). <i>Folia Geobotanica</i> , 2007, 42, 225-247.	0.9	75
16	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
17	Invasion Gateways and Corridors in the Carpathian Basin: Biological Invasions in Hungary. <i>Biological Invasions</i> , 2003, 5, 349-356.	2.4	68
18	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

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19	Conceptual Frameworks and Methods for Advancing Invasion Ecology. <i>Ambio</i> , 2013, 42, 527-540.	5.5	62
20	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
21	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
22	Silhouette width using generalized mean: A flexible method for assessing clustering efficiency. <i>Ecology and Evolution</i> , 2019, 9, 13231-13243.	1.9	52
23	Invasion of alien species to Hungarian (semi-)natural habitats. <i>Acta Botanica Hungarica</i> , 2008, 50, 219-227.	0.3	51
24	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
25	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
26	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
27	A higher-level classification of the Pannonian and western Pontic steppe grasslands (Central and western Europe). <i>Journal of Vegetation Science</i> , 2011, 22, 107-114.	1.9	46
28	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
29	Cautionary note on calculating standardized effect size (SES) in randomization test. <i>Community Ecology</i> , 2018, 19, 77-83.	0.9	42
30	Semi-supervised classification of vegetation: preserving the good old units and searching for new ones. <i>Journal of Vegetation Science</i> , 2014, 25, 1504-1512.	2.2	41
31	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
32	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
33	The effect of abandonment on vegetation composition and soil properties in Molinion meadows (SW Hungary). <i>Journal of Vegetation Science</i> , 2011, 22, 107-114.	2.5	31
34	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
35	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
36	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

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37	Determination of diagnostic species with statistical fidelity measures. <i>Journal of Vegetation Science</i> , 2002, 13, 79.	2.2	27
38	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
39	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
40	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
41	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
42	People move but cultivated plants stay: abandoned farmsteads support the persistence and spread of alien plants. <i>Biodiversity and Conservation</i> , 2014, 23, 1289-1302.	2.6	21
43	New plant trait records of the Hungarian flora. <i>Acta Botanica Hungarica</i> , 2016, 58, 397-400.	0.3	21
44	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
45	Can management intensity be more important than environmental factors? A case study along an extreme elevation gradient from central Italian cereal fields. <i>Plant Biosystems</i> , 2013, 147, 343-353.	1.6	20
46	The natural capital index of Hungary. <i>Acta Botanica Hungarica</i> , 2008, 50, 161-177.	0.3	19
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	Trait convergence and trait divergence in lake phytoplankton reflect community assembly rules. <i>Scientific Reports</i> , 2020, 10, 19599.	3.3	15

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55	An indicator framework for the climatic adaptive capacity of natural ecosystems. <i>Journal of Vegetation Science</i> , 2011, 22, 711-725.	2.2	14
56	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
57	Relating <i>Ambrosia artemisiifolia</i> and other weeds to the management of Hungarian sunflower crops. <i>Journal of Pest Science</i> , 2013, 86, 621-631.	3.7	13
58	The impact of management on weeds and aquatic plant communities in Hungarian rice crops. <i>Weed Research</i> , 2014, 54, 388-397.	1.7	13
59	Comparing the accuracy of three non-destructive methods in estimating aboveground plant biomass. <i>Community Ecology</i> , 2017, 18, 56-62.	0.9	13
60	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
61	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
62	Unusual behaviour of phototrophic picoplankton in turbid waters. <i>PLoS ONE</i> , 2017, 12, e0174316.	2.5	13
63	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
64	Effects of simulated grazing on open perennial sand grassland. <i>Community Ecology</i> , 2006, 7, 133-141.	0.9	11
65	Assembly rules during old-field succession in two contrasting environments. <i>Community Ecology</i> , 2007, 8, 31-40.	0.9	11
66	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
67	Phenotypic divergences induced by different residence time in invasive common ragweeds. <i>Journal of Plant Ecology</i> , 2012, 5, 174-181.	2.3	11
68	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
69	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
70	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
71	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
72	Use of mesotrione and tembotrione herbicides for post-emergence weed control in alkaloid poppy (<i>Papaver somniferum</i>). <i>International Journal of Pest Management</i> , 2014, 60, 187-195.	1.8	8

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73	Aerobic anoxygenic phototrophs are highly abundant in hypertrophic and polyhumic waters. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	8
74	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
75	Conservation biology research priorities for 2050: A Central-Eastern European perspective. <i>Biological Conservation</i> , 2021, 264, 109396.	4.1	8
76	Trait-based numerical classification of mesic and wet grasslands in Poland. <i>Journal of Vegetation Science</i> , 2020, 31, 319-330.	2.2	7
77	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
78	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
79	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
80	Exploring the relationship between macrofungi diversity, abundance, and vascular plant diversity in semi-natural and managed forests in north-east Hungary. <i>Ecological Research</i> , 2013, 28, 543-552.	1.5	6
81	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
82	Changing assembly rules during secondary succession: evidence for non-random patterns. <i>Basic and Applied Ecology</i> , 2021, 52, 46-56.	2.7	6
83	How do locally infrequent species influence numerical classification? A simulation study. <i>Community Ecology</i> , 2012, 13, 64-71.	0.9	5
84	Long-term weather sensitivity of open sand grasslands of the Kiskunság Sand Ridge forest-steppe mosaic after wildfires. <i>Community Ecology</i> , 2014, 15, 121-129.	0.9	5
85	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
86	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
87	Spatial Pattern and Temporal Dynamics of Bryophyte Assemblages in Saline Grassland. <i>Folia Geobotanica</i> , 2013, 48, 189-207.	0.9	4
88	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
89	ANALYSING ASSOCIATIONS AMONG MORE THAN TWO SPECIES. <i>Applied Ecology and Environmental Research</i> , 2006, 4, 1-19.	0.5	4
90	Composition and Diversity of Lawn Flora in Differently Managed Village Yards – A Case Study from Southwestern Hungary. <i>Folia Geobotanica</i> , 2013, 48, 209-227.	0.9	3

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91	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
92	Comparison of silhouette-based reallocation methods for vegetation classification. <i>Journal of Vegetation Science</i> , 2021, 32, e12984.	2.2	3
93	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
94	Validation of hierarchical classifications by splitting dataset. <i>Acta Botanica Hungarica</i> , 2008, 50, 73-80.	0.3	2
95	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
96	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
97	Disturbance reshapes the productivity-diversity relationship. <i>Journal of Vegetation Science</i> , 2021, 32, e13030.	2.2	2
98	Are traits drivers or consequences of competition? Comments to Carmona et al. <i>Journal of Ecology</i> , 2021, 109, 2540-2549.	4.0	1
99	CoenoDat Hungarian Phytosociological Database. <i>Biodiversity and Ecology = Biodiversitat Und Okologie</i> , 2012, 4, 394-394.	0.3	1
100	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
101	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
102	Woodpecker foraging activity in oak-dominated hill forests in Hungary. <i>Ornis Hungarica</i> , 2021, 29, 82-97.	0.4	0
103	Robust coexistence and population regulation. , 2016, , 170-199.		0
104	Population structure and exponential growth. , 2016, , 48-70.		0
105	Growth regulation, feedbacks, and their dynamical consequences. , 2016, , 95-120.		0
106	Diversity patterns and population regulation. , 2016, , 250-274.		0
107	Stochasticity due to finiteness. , 2016, , 231-249.		0
108	Ecological tolerance and the distribution of species. , 2016, , 71-92.		0

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109	Exponential growth of unstructured populations. , 2016, , 33-47.		0
110	Trade-offs and adaptations. , 2016, , 144-169.		0
111	Population regulation and the ecological niche. , 2016, , 200-228.		0
112	Sources and treatment of complexity. , 2016, , 18-30.		0