

Giovanni Bacaro

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

3,011
citations

186265

28
h-index

214800

47
g-index

126
all docs

126
docs citations

126
times ranked

4187
citing authors

#	ARTICLE	IF	CITATIONS
1	Old and new challenges in using species diversity for assessing biodiversity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2426-2437.	4.0	160
2	Functional traits of epiphytic lichens as potential indicators of environmental conditions in forest ecosystems. <i>Ecological Indicators</i> , 2012, 18, 413-420.	6.3	116
3	Discovering and rediscovering the sample-based rarefaction formula in the ecological literature. <i>Community Ecology</i> , 2008, 9, 121-123.	0.9	100
4	Spatially constrained rarefaction: incorporating the autocorrelated structure of biological communities into sample-based rarefaction. <i>Community Ecology</i> , 2009, 10, 209-214.	0.9	94
5	Quantifying plant species diversity in a Natura 2000 network: Old ideas and new proposals. <i>Biological Conservation</i> , 2008, 141, 2608-2618.	4.1	77
6	The conservation value of farmland ponds: Predicting water beetle assemblages using vascular plants as a surrogate group. <i>Biological Conservation</i> , 2010, 143, 1125-1133.	4.1	76
7	One-year follow-up of mud-bath therapy in patients with bilateral knee osteoarthritis: a randomized, single-blind controlled trial. <i>International Journal of Biometeorology</i> , 2015, 59, 1333-1343.	3.0	68
8	Landscape effects on diversity of semi-natural grasslands. <i>Agriculture, Ecosystems and Environment</i> , 2014, 182, 47-58.	5.3	66
9	Calculating landscape diversity with information-theory based indices: A GRASS GIS solution. <i>Ecological Informatics</i> , 2013, 17, 82-93.	5.2	65
10	Evaluating and interpreting cross-taxon congruence: Potential pitfalls and solutions. <i>Acta Oecologica</i> , 2011, 37, 187-194.	1.1	60
11	Make it simpler: Alien species decrease functional diversity of coastal plant communities. <i>Journal of Vegetation Science</i> , 2019, 30, 498-509.	2.2	52
12	Biodiversity, roads, & landscape fragmentation: Two Mediterranean cases. <i>Applied Geography</i> , 2013, 42, 63-72.	3.7	48
13	Plant-environment interactions through a functional traits perspective: a review of Italian studies. <i>Plant Biosystems</i> , 2019, 153, 853-869.	1.6	48
14	Landscape structure effects on forest plant diversity at local scale: Exploring the role of spatial extent. <i>Ecological Complexity</i> , 2015, 21, 44-52.	2.9	47
15	Computing diversity from dated phylogenies and taxonomic hierarchies: does it make a difference to the conclusions?. <i>Oecologia</i> , 2012, 170, 501-506.	2.0	43
16	Coastline Dune Vegetation Dynamics: Evidence of No Stability. <i>Folia Geobotanica</i> , 2012, 47, 263-275.	0.9	43
17	Functional rarefaction for species abundance data. <i>Methods in Ecology and Evolution</i> , 2012, 3, 519-525.	5.2	40
18	Distributional patterns of endemic, native and alien species along a roadside elevation gradient in Tenerife, Canary Islands. <i>Community Ecology</i> , 2015, 16, 223-234.	0.9	40

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19	Plot-scale modelling to detect size, extent, and correlates of changes in tree defoliation in French high forests. <i>Forest Ecology and Management</i> , 2014, 311, 56-69.	3.2	37
20	Scale dependence of plant species richness in a network of protected areas. <i>Biodiversity and Conservation</i> , 2012, 21, 503-516.	2.6	36
21	Less safety for more efficiency: water relations and hydraulics of the invasive tree <i>Ailanthus altissima</i> (Mill.) Swingle compared with native <i>Fraxinus ornus</i> L.. <i>Tree Physiology</i> , 2019, 39, 76-87.	3.1	36
22	Establishing climatic constraints shaping the distribution of alien plant species along the elevation gradient in the Alps. <i>Plant Ecology</i> , 2012, 213, 757-767.	1.6	35
23	Remotely sensed spatial heterogeneity as an exploratory tool for taxonomic and functional diversity study. <i>Ecological Indicators</i> , 2018, 85, 983-990.	6.3	35
24	Non-native species distribution along the elevation gradient in the western Italian Alps. <i>Plant Biosystems</i> , 2011, 145, 150-158.	1.6	34
25	A spatially explicit measure of beta diversity. <i>Community Ecology</i> , 2007, 8, 41-46.	0.9	33
26	rasterdiv: An Information Theory tailored R package for measuring ecosystem heterogeneity from space: To the origin and back. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1093-1102.	5.2	33
27	The role of regional and local scale predictors for plant species richness in Mediterranean forests. <i>Plant Biosystems</i> , 2008, 142, 630-642.	1.6	32
28	Congruence among vascular plants and butterflies in the evaluation of grassland restoration success. <i>Acta Oecologica</i> , 2009, 35, 311-317.	1.1	32
29	Using taxonomic data to assess and monitor biodiversity: are the tribes still fighting?. <i>Journal of Environmental Monitoring</i> , 2009, 11, 798.	2.1	28
30	A New Measure of Functional Evenness and Some of Its Properties. <i>PLoS ONE</i> , 2014, 9, e104060.	2.5	28
31	Multi-stage cluster sampling for estimating average species richness at different spatial grains. <i>Community Ecology</i> , 2007, 8, 119-127.	0.9	27
32	High Plant Diversity of Grasslands in a Landscape Context: A Comparison of Contrasting Regions in Central Europe. <i>Folia Geobotanica</i> , 2014, 49, 117-135.	0.9	27
33	Sampling intraspecific variability in leaf functional traits: Practical suggestions to maximize collected information. <i>Ecology and Evolution</i> , 2017, 7, 11236-11245.	1.9	25
34	Measuring beta-diversity from taxonomic similarity. <i>Journal of Vegetation Science</i> , 2007, 18, 793-798.	2.2	24
35	The spatial domain matters: Spatially constrained species rarefaction in a Free and Open Source environment. <i>Ecological Complexity</i> , 2012, 12, 63-69.	2.9	24
36	A multifaceted approach for beech forest conservation: Environmental drivers of understory plant diversity. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2019, 256, 85-91.	1.2	23

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37	Geostatistical modelling of regional bird species richness: exploring environmental proxies for conservation purpose. <i>Biodiversity and Conservation</i> , 2011, 20, 1677-1694.	2.6	22
38	Testing for differences in beta diversity from plot-to-plot dissimilarities. <i>Ecological Research</i> , 2012, 27, 285-292.	1.5	22
39	A simplified framework for fast and reliable measurement of leaf turgor loss point. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 395-399.	5.8	22
40	Addressing reproductive stochasticity and grazing impacts in the restoration of a canopy-forming brown alga by implementing mitigation solutions. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021, 31, 1611-1623.	2.0	22
41	Connectivity, landscape structure, and plant diversity across agricultural landscapes: novel insight into effective ecological network planning. <i>Journal of Environmental Management</i> , 2022, 317, 115358.	7.8	22
42	Incorporating spatial autocorrelation in rarefaction methods: Implications for ecologists and conservation biologists. <i>Ecological Indicators</i> , 2016, 69, 233-238.	6.3	21
43	More nature in the city. <i>Plant Biosystems</i> , 2020, 154, 1003-1006.	1.6	21
44	From zero to infinity: Minimum to maximum diversity of the planet by spatio-parametric Rao's quadratic entropy. <i>Global Ecology and Biogeography</i> , 2021, 30, 1153-1162.	5.8	21
45	Identifying the drivers of pond biodiversity: the agony of model selection. <i>Community Ecology</i> , 2010, 11, 179-186.	0.9	20
46	Additive partitioning as a tool for investigating the flora diversity in oceanic archipelagos. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2010, 12, 83-91.	2.7	20
47	Forensic botany as a useful tool in the crime scene: Report of a case. <i>Journal of Clinical Forensic and Legal Medicine</i> , 2015, 34, 24-28.	1.0	20
48	Anticipating species distributions: Handling sampling effort bias under a Bayesian framework. <i>Science of the Total Environment</i> , 2017, 584-585, 282-290.	8.0	20
49	Effect of Mud-Bath Therapy on Serum Biomarkers in Patients with Knee Osteoarthritis: Results from a Randomized Controlled Trial. <i>Israel Medical Association Journal</i> , 2016, 18, 232-7.	0.1	20
50	Dependence of animal diversity on plant diversity and environmental factors in farmland ponds. <i>Community Ecology</i> , 2010, 11, 232-241.	0.9	19
51	Diversity patterns of alien and native plant species in Trieste port area: exploring the role of urban habitats in biodiversity conservation. <i>Urban Ecosystems</i> , 2017, 20, 1151-1160.	2.4	19
52	Disentangling native and alien plant diversity in coastal sand dune ecosystems worldwide. <i>Journal of Vegetation Science</i> , 2021, 32, .	2.2	19
53	Shift in proximate causes of mortality for six large migratory raptors over a century. <i>Biological Conservation</i> , 2020, 251, 108793.	4.1	19
54	Climate and landscape heterogeneity drive spatial pattern of endemic plant diversity within local hotspots in South-Eastern Alps. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2020, 43, 125512.	2.7	18

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55	Quantifying species richness at multiple spatial scales in a Natura 2000 network. <i>Community Ecology</i> , 2008, 9, 185-192.	0.9	17
56	Methodological issues in exploring cross-taxon congruence across vascular plants, bryophytes and lichens. <i>Folia Geobotanica</i> , 2016, 51, 297-304.	0.9	17
57	Distributional pattern of Sardinian orchids under a climate change scenario. <i>Community Ecology</i> , 2018, 19, 223-232.	0.9	17
58	Shape matters in sampling plant diversity: Evidence from the field. <i>Ecological Complexity</i> , 2015, 24, 37-45.	2.9	16
59	Teamwork makes the dream work: Disentangling cross-taxon congruence across soil biota in black pine plantations. <i>Science of the Total Environment</i> , 2019, 656, 659-669.	8.0	16
60	On plot-to-plot dissimilarity measures based on species functional traits. <i>Community Ecology</i> , 2010, 11, 113-119.	0.9	15
61	Biogeographical determinants of pteridophytes and spermatophytes on oceanic archipelagos. <i>Systematics and Biodiversity</i> , 2011, 9, 191-201.	1.2	15
62	A classical measure of phylogenetic dissimilarity and its relationship with beta diversity. <i>Basic and Applied Ecology</i> , 2015, 16, 10-18.	2.7	15
63	Scarce evidence of ozone effect on recent health and productivity of alpine forests—a case study in Trentino, N. Italy. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8217-8232.	5.3	15
64	Enough Is Enough? Searching for the Optimal Sample Size to Monitor European Habitats: A Case Study from Coastal Sand Dunes. <i>Diversity</i> , 2020, 12, 138.	1.7	15
65	Tree canopy defoliation can reveal growth decline in mid-latitude temperate forests. <i>Ecological Indicators</i> , 2021, 127, 107749.	6.3	15
66	Phenology of <i>Dryopteris affinis</i> ssp. <i>affinis</i> and <i>Polystichum aculeatum</i> : modeling relationships to the climatic variables in a Mediterranean area. <i>Plant Species Biology</i> , 2014, 29, 129-137.	1.0	14
67	Exploring cross-taxon congruence between carabid beetles (Coleoptera: Carabidae) and vascular plants in sites invaded by <i>Ailanthus altissima</i> versus non-invaded sites: The explicative power of biotic and abiotic factors. <i>Ecological Indicators</i> , 2019, 103, 145-155.	6.3	14
68	Integrated eDNA metabarcoding and morphological analyses assess spatio-temporal patterns of airborne fungal spores. <i>Ecological Indicators</i> , 2021, 121, 107032.	6.3	14
69	Functional differentiation of invasive and native plants along a leaf efficiency/safety trade-off. <i>Environmental and Experimental Botany</i> , 2021, 188, 104518.	4.2	14
70	Effects of an afforestation process on plant species richness: A retrogressive analysis. <i>Ecological Complexity</i> , 2012, 9, 55-62.	2.9	13
71	Notulae to the Italian native vascular flora: 8. <i>Italian Botanist</i> , 0, 8, 95-116.	0.0	13
72	Beta diversity reconsidered. <i>Ecological Research</i> , 2013, 28, 537-540.	1.5	12

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73	Ecological drivers of plant diversity patterns in remnants coastal sand dune ecosystems along the northern Adriatic coastline. <i>Ecological Research</i> , 2018, 33, 1157-1168.	1.5	12
74	Functional Divergence Drives Invasibility of Plant Communities at the Edges of a Resource Availability Gradient. <i>Diversity</i> , 2020, 12, 148.	1.7	12
75	Absence of distance decay in the similarity of plots at small extent in an urban brownfield. <i>Community Ecology</i> , 2012, 13, 36-44.	0.9	11
76	Spatial scales of variation in lichens: implications for sampling design in biomonitoring surveys. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 1567-1576.	2.7	11
77	A new method for quantifying the phylogenetic redundancy of biological communities. <i>Oecologia</i> , 2018, 186, 339-346.	2.0	10
78	More species, less effort: Designing and comparing sampling strategies to draft optimised floristic inventories. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2020, 45, 125547.	2.7	10
79	A cautionary note on some phylogenetic dissimilarity measures. <i>Journal of Plant Ecology</i> , 2015, 8, 12-16.	2.3	9
80	Quantifying plant species diversity in coastal dunes: a piece of help from spatially constrained rarefaction. <i>Folia Geobotanica</i> , 2016, 51, 129-141.	0.9	9
81	Plasticity of functional traits of tree of heaven is higher in exotic than in native habitats. <i>Trees - Structure and Function</i> , 2019, 33, 411-420.	1.9	9
82	Do Habitats Show a Different Invasibility Pattern by Alien Plant Species? A Test on a Wetland Protected Area. <i>Diversity</i> , 2020, 12, 267.	1.7	9
83	Contrasting patterns of native and non-native plants in a network of protected areas across spatial scales. <i>Biodiversity and Conservation</i> , 2020, 29, 2035-2053.	2.6	9
84	Use of Sentinel-2 Satellite Data for Windthrows Monitoring and Delimiting: The Case of "Vaia" Storm in Friuli Venezia Giulia Region (North-Eastern Italy). <i>Remote Sensing</i> , 2021, 13, 1530.	4.0	9
85	Measuring diversity from space: a global view of the free and open source rasterdiv R package under a coding perspective. <i>Community Ecology</i> , 2021, 22, 1-11.	0.9	9
86	Multi-scale sampling and statistical linear estimators to assess land use status and change. <i>Applied Vegetation Science</i> , 2009, 12, 225-236.	1.9	8
87	Cross-taxon relationships in Mediterranean urban ecosystem: A case study from the city of Trieste. <i>Ecological Indicators</i> , 2021, 125, 107538.	6.3	8
88	Effect of reduction in sampling effort for monitoring epiphytic lichen diversity in forests. <i>Community Ecology</i> , 2010, 11, 250-256.	0.9	7
89	Beneficial effects of restoration practices can be thwarted by climate extremes. <i>Science of the Total Environment</i> , 2018, 626, 851-859.	8.0	7
90	Badlands and the Dynamics of Human History, Land Use, and Vegetation Through Centuries. , 2018, , 111-153.		7

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91	Invasive fountain grass (<i>Pennisetum setaceum</i> (Forssk.) Chiov.) increases its potential area of distribution in Tenerife island under future climatic scenarios. <i>Plant Ecology</i> , 2020, 221, 867-882.	1.6	7
92	Turgor loss point and vulnerability to xylem embolism predict species-specific risk of drought-induced decline of urban trees. <i>Plant Biology</i> , 2022, 24, 1198-1207.	3.8	7
93	Estimating ozone risks using forest monitoring networks—results for science, policy, and society. <i>Annals of Forest Science</i> , 2015, 72, 887-896.	2.0	6
94	Rarefaction of beta diversity. <i>Ecological Indicators</i> , 2019, 107, 105606.	6.3	6
95	Cross Taxon Congruence Between Lichens and Vascular Plants in a Riparian Ecosystem. <i>Diversity</i> , 2019, 11, 133.	1.7	6
96	Drivers of distance-decay in bryophyte assemblages at multiple spatial scales: Dispersal limitations or environmental control?. <i>Journal of Vegetation Science</i> , 2020, 31, 293-306.	2.2	6
97	Effect of Invasive Alien Species on the Co-Occurrence Patterns of Bryophytes and Vascular Plant Species—The Case of a Mediterranean Disturbed Sandy Coast. <i>Diversity</i> , 2020, 12, 160.	1.7	6
98	Windstorm effects on herbaceous vegetation in temperate forest ecosystems: Changes in plant functional diversity and species trait values along a disturbance severity gradient. <i>Forest Ecology and Management</i> , 2022, 505, 119799.	3.2	6
99	Functional imbalance not functional evenness is the third component of community structure. <i>Ecological Indicators</i> , 2022, 140, 109035.	6.3	6
100	Local and regional scale biodiversity patterns of forest snail assemblages in Tuscany (central Italy). <i>Community Ecology</i> , 2015, 16, 147-155.	0.9	5
101	Population density of European wildcats in a pre-alpine area (northeast Italy) and an assessment of estimate robustness. <i>Mammal Research</i> , 2022, 67, 9-20.	1.3	5
102	Modelling factors affecting litter mass components of pine stands. <i>Community Ecology</i> , 2007, 8, 247-255.	0.9	4
103	Analysing methodological issues in short-term monitoring of rare European beech forests restoration. <i>Plant Biosystems</i> , 2019, 153, 60-67.	1.6	4
104	Measuring beta-diversity from taxonomic similarity. <i>Journal of Vegetation Science</i> , 2007, 18, 793.	2.2	4
105	A spatially-explicit model of alien plant richness in Tenerife (Canary Islands). <i>Ecological Complexity</i> , 2019, 38, 75-82.	2.9	3
106	Silvicultural management does not affect biotic communities in conifer plantations in the short-term: A multi-taxon assessment using a BACI approach. <i>Forest Ecology and Management</i> , 2021, 493, 119257.	3.2	3
107	Asexual Reproduction and Strobilation of <i>Sanderia malayensis</i> (Scyphozoa, Pelagiidae) in Relation to Temperature: Experimental Evidence and Implications. <i>Diversity</i> , 2021, 13, 37.	1.7	3
108	Dragonfly (Odonata) Diversity Patterns in Mixohaline Coastal Wetlands. <i>Estuaries and Coasts</i> , 2020, 43, 375-386.	2.2	3

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109	Determining Plant Diversity within Interconnected Natural Habitat Remnants (Ecological Network) in an Agricultural Landscape: A Matter of Sampling Design?. <i>Diversity</i> , 2022, 14, 12.	1.7	3
110	Using Shannon's recursivity to summarize forest structural diversity. <i>Forests Trees and Livelihoods</i> , 2014, 23, 211-216.	1.2	2
111	Botanical gardens and citizen science: An (as yet) under-exploited potential. <i>Plant Biosystems</i> , 2016, 150, 381-383.	1.6	1
112	Odonate fauna assemblages in the "Cansiglio Forest" (Insecta: Odonata). <i>Rendiconti Lincei</i> , 2021, 32, 899-910.	2.2	1
113	Invasion at the Edge: The Case of <i>Rosa rugosa</i> (Rosaceae) in Italy. <i>Diversity</i> , 2021, 13, 645.	1.7	1
114	Climate Change Risk and Vulnerabilities Analysis in Trieste SECAP. <i>Sustainability</i> , 2022, 14, 5973.	3.2	1
115	The Power of Generalized Entropy for Biodiversity Assessment by Remote Sensing: An Open Source Approach. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 211-217.	0.2	0
116	Practice Must Be Backed up by Theory! A Special Issue on Plant Community Ecology. <i>Diversity</i> , 2020, 12, 438.	1.7	0
117	First report of naturalization of <i>Houttuynia cordata</i> Thunb. 1783 (Saururaceae) in Italy. <i>Rendiconti Lincei</i> , 2021, 32, 287-293.	2.2	0
118	Should we throw the baby out with the bathwater? No, as far as long-term retrospective studies from large dataset are informative. <i>Biological Conservation</i> , 2021, 256, 109054.	4.1	0