

Sandrine Pavoine

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

7,730
citations

93792

39
h-index

66518

82
g-index

118
all docs

118
docs citations

118
times ranked

9843
citing authors

#	ARTICLE	IF	CITATIONS
1	Trait-habitat associations explain novel bird assemblages mixing native and alien species across New Zealand landscapes. <i>Diversity and Distributions</i> , 2022, 28, 38-52.	1.9	6
2	A new parametric measure of functional dissimilarity: Bridging the gap between the Bray-Curtis dissimilarity and the Euclidean distance. <i>Ecological Modelling</i> , 2022, 466, 109880.	1.2	8
3	Effects of life-history traits and network topological characteristics on the robustness of marine food webs. <i>Global Ecology and Conservation</i> , 2022, 34, e02048.	1.0	2
4	Trade-offs in the conservation of phylogenetically distinctive species. <i>Biological Conservation</i> , 2022, 270, 109565.	1.9	3
5	Functional imbalance not functional evenness is the third component of community structure. <i>Ecological Indicators</i> , 2022, 140, 109035.	2.6	6
6	A new method for indicator species analysis in the framework of multivariate analysis of variance. <i>Journal of Vegetation Science</i> , 2021, 32, e13013.	1.1	3
7	Beta redundancy for functional ecology. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1062-1069.	2.2	5
8	Revisiting species and areas of interest for conserving global mammalian phylogenetic diversity. <i>Nature Communications</i> , 2021, 12, 3694.	5.8	25
9	Biomass of slow life history species increases as local bottom trawl effort decreases in the Celtic sea. <i>Journal of Environmental Management</i> , 2021, 290, 112634.	3.8	0
10	A framework for understanding how biodiversity patterns unfold across multiple spatial scales in urban ecosystems. <i>Ecosphere</i> , 2021, 12, e03650.	1.0	24
11	Disturbed habitats locally reduce the signal of deep evolutionary history in functional traits of plants. <i>New Phytologist</i> , 2021, 232, 1849-1862.	3.5	7
12	Towards a unifying framework for diversity and dissimilarity coefficients. <i>Ecological Indicators</i> , 2021, 129, 107971.	2.6	10
13	On the relationships between rarity, uniqueness, distinctiveness, originality and functional/phylogenetic diversity. <i>Biological Conservation</i> , 2021, 263, 109356.	1.9	8
14	On two dissimilarity-based measures of functional beta diversity. <i>Ecological Informatics</i> , 2021, 66, 101458.	2.3	1
15	A global database for metacommunity ecology, integrating species, traits, environment and space. <i>Scientific Data</i> , 2020, 7, 6.	2.4	28
16	Environment outweighs the effects of fishing in regulating demersal community structure in an exploited marine ecosystem. <i>Global Change Biology</i> , 2020, 26, 2106-2119.	4.2	27
17	Assembly rules of helminth parasite communities in grey mullets: combining components of diversity. <i>International Journal for Parasitology</i> , 2020, 50, 1089-1098.	1.3	13
18	adiv: An R package to analyse biodiversity in ecology. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1106-1112.	2.2	63

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19	The worldwide impact of urbanisation on avian functional diversity. <i>Ecology Letters</i> , 2020, 23, 962-972.	3.0	95
20	Comparing taxon- and trait-environment relationships in stream communities. <i>Ecological Indicators</i> , 2020, 117, 106625.	2.6	7
21	From alpha to beta functional and phylogenetic redundancy. <i>Methods in Ecology and Evolution</i> , 2020, 11, 487-493.	2.2	19
22	Urbanization Effects on Biodiversity Revealed by a Two-Scale Analysis of Species Functional Uniqueness vs. Redundancy. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	44
23	Rarefaction of beta diversity. <i>Ecological Indicators</i> , 2019, 107, 105606.	2.6	6
24	Explosive breeding in tropical anurans: environmental triggers, community composition and acoustic structure. <i>BMC Ecology</i> , 2019, 19, 28.	3.0	23
25	A simple translation from indices of species diversity to indices of phylogenetic diversity. <i>Ecological Indicators</i> , 2019, 101, 552-561.	2.6	22
26	Reconciling the concepts and measures of diversity, rarity and originality in ecology and evolution. <i>Biological Reviews</i> , 2019, 94, 1317-1337.	4.7	67
27	Species splitting increases estimates of evolutionary history at risk. <i>Biological Conservation</i> , 2019, 235, 27-35.	1.9	19
28	Mammal extinctions and the increasing isolation of humans on the tree of life. <i>Ecology and Evolution</i> , 2019, 9, 914-924.	0.8	12
29	An ordination approach to explore similarities among communities. <i>Journal of Theoretical Biology</i> , 2019, 462, 85-96.	0.8	3
30	Measuring functional dissimilarity among plots: Adapting old methods to new questions. <i>Ecological Indicators</i> , 2019, 97, 67-72.	2.6	15
31	Ecological versatility and the assembly of multiple competitors: cautionary notes for assembly inferences. <i>Ecology</i> , 2018, 99, 1173-1183.	1.5	7
32	Trait and phylogenetic diversity provide insights into community assembly of reef-associated shrimps (Palaemonidae) at different spatial scales across the Chagos Archipelago. <i>Ecology and Evolution</i> , 2018, 8, 4098-4107.	0.8	7
33	Predicting the impacts of co-extinctions on phylogenetic diversity in mutualistic networks. <i>Biological Conservation</i> , 2018, 219, 161-171.	1.9	8
34	A new method for quantifying the phylogenetic redundancy of biological communities. <i>Oecologia</i> , 2018, 186, 339-346.	0.9	10
35	A Generalized Framework for Analyzing Taxonomic, Phylogenetic, and Functional Community Structure Based on Presence-Absence Data. <i>Mathematics</i> , 2018, 6, 250.	1.1	9
36	Relating Species Traits to Environment. , 2018, , 223-237.		1

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37	Analysing Spatial Structures. , 2018, , 239-260.		1
38	Analysing Patterns of Biodiversity. , 2018, , 281-294.		0
39	Analysing Changes in Structures. , 2018, , 167-204.		0
40	Analysing Phylogenetic Structures. , 2018, , 261-280.		0
41	Multivariate Analysis of Ecological Data with ade4. , 2018, , .		206
42	Indicators for the Expected Loss of Phylogenetic Diversity. , 2018, , 73-91.		14
43	Priority Areas for Phylogenetic Diversity: Maximising Gains in the Mediterranean Basin. , 2018, , 145-166.		4
44	Predicting loss of evolutionary history: Where are we?. Biological Reviews, 2017, 92, 271-291.	4.7	67
45	From inselberg to inselberg: Floristic patterns across scales in French Guiana (South America). Flora: Morphology, Distribution, Functional Ecology of Plants, 2017, 229, 147-158.	0.6	18
46	Urbanisation and the loss of phylogenetic diversity in birds. Ecology Letters, 2017, 20, 721-729.	3.0	145
47	From phylogenetic to functional originality: Guide through indices and new developments. Ecological Indicators, 2017, 82, 196-205.	2.6	47
48	A guide to phylogenetic metrics for conservation, community ecology and macroecology. Biological Reviews, 2017, 92, 698-715.	4.7	570
49	Ancestrality and evolution of trait syndromes in finches (Fringillidae). Ecology and Evolution, 2017, 7, 9935-9953.	0.8	3
50	Phylogenies and traits provide distinct insights about the historical and contemporary assembly of aquatic insect communities. Ecology and Evolution, 2016, 6, 2925-2937.	0.8	30
51	Measuring the functional redundancy of biological communities: a quantitative guide. Methods in Ecology and Evolution, 2016, 7, 1386-1395.	2.2	197
52	The Evolutionary Legacy of Diversification Predicts Ecosystem Function. American Naturalist, 2016, 188, 398-410.	1.0	14
53	A family of functional dissimilarity measures for presence and absence data. Ecology and Evolution, 2016, 6, 5383-5389.	0.8	16
54	â€Equivalent numbersâ€™ for species, phylogenetic or functional diversity in a nested hierarchy of multiple scales. Methods in Ecology and Evolution, 2016, 7, 1152-1163.	2.2	30

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55	Integrating data-deficient species in analyses of evolutionary history loss. <i>Ecology and Evolution</i> , 2016, 6, 8502-8514.	0.8	20
56	Loss and conservation of evolutionary history in the Mediterranean Basin. <i>BMC Ecology</i> , 2016, 16, 43.	3.0	12
57	A guide through a family of phylogenetic dissimilarity measures among sites. <i>Oikos</i> , 2016, 125, 1719-1732.	1.2	31
58	Measuring similarity among plots including similarity among species: an extension of traditional approaches. <i>Journal of Vegetation Science</i> , 2015, 26, 1061-1067.	1.1	13
59	Acoustic indices for biodiversity assessments: Analyses of bias based on simulated bird assemblages and recommendations for field surveys. <i>Biological Conservation</i> , 2015, 191, 306-312.	1.9	87
60	A multiple-site dissimilarity measure for species presence/absence data and its relationship with nestedness and turnover. <i>Ecological Indicators</i> , 2015, 54, 203-206.	2.6	20
61	Considering external information to improve the phylogenetic comparison of microbial communities: a new approach based on constrained Double Principal Coordinates Analysis (<sc>DPCoA</sc>). <i>Molecular Ecology Resources</i> , 2015, 15, 242-249.	2.2	19
62	A cautionary note on some phylogenetic dissimilarity measures. <i>Journal of Plant Ecology</i> , 2015, 8, 12-16.	1.2	9
63	First description of underwater acoustic diversity in three temperate ponds. <i>PeerJ</i> , 2015, 3, e1393.	0.9	47
64	Statistical ecology comes of age. <i>Biology Letters</i> , 2014, 10, 20140698.	1.0	40
65	Acoustic Indices for Biodiversity Assessment and Landscape Investigation. <i>Acta Acustica United With Acustica</i> , 2014, 100, 772-781.	0.8	336
66	Combining the fourth-corner and the RLQ methods for assessing trait responses to environmental variation. <i>Ecology</i> , 2014, 95, 14-21.	1.5	398
67	Species living in harsh environments have low clade rank and are localized on former Laurasian continents: a case study of <i>Willemia</i> (Collembola). <i>Journal of Biogeography</i> , 2014, 41, 353-365.	1.4	3
68	Functional and phylogenetic similarity among communities. <i>Methods in Ecology and Evolution</i> , 2014, 5, 666-675.	2.2	53
69	New biodiversity measure that includes consistent interspecific and intraspecific components. <i>Methods in Ecology and Evolution</i> , 2014, 5, 165-172.	2.2	13
70	Temporal and spatial variability of animal sound within a neotropical forest. <i>Ecological Informatics</i> , 2014, 21, 133-143.	2.3	86
71	Monitoring temporal change of bird communities with dissimilarity acoustic indices. <i>Methods in Ecology and Evolution</i> , 2014, 5, 495-505.	2.2	69
72	Life history traits, but not phylogeny, drive compositional patterns in a butterfly metacommunity. <i>Ecology</i> , 2014, 95, 3304-3313.	1.5	31

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73	Correlations between phylogenetic and functional diversity: mathematical artefacts or true ecological and evolutionary processes?. <i>Journal of Vegetation Science</i> , 2013, 24, 781-793.	1.1	103
74	Does trait conservatism guarantee that indicators of phylogenetic community structure will reveal niche-based assembly processes along stress gradients?. <i>Journal of Vegetation Science</i> , 2013, 24, 820-833.	1.1	31
75	Specialists leave fewer descendants within a region than generalists. <i>Global Ecology and Biogeography</i> , 2013, 22, 213-222.	2.7	23
76	TESTING FOR PHYLOGENETIC SIGNAL IN BIOLOGICAL TRAITS: THE UBIQUITY OF CROSS-PRODUCT STATISTICS. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 828-840.	1.1	38
77	A guide for using functional diversity indices to reveal changes in assembly processes along ecological gradients. <i>Journal of Vegetation Science</i> , 2013, 24, 794-806.	1.1	316
78	A New Technique for Analysing Interacting Factors Affecting Biodiversity Patterns: Crossed-DPCoA. <i>PLoS ONE</i> , 2013, 8, e54530.	1.1	14
79	Assessing biodiversity with sound: Do acoustic diversity indices reflect phylogenetic and functional diversities of bird communities?. <i>Ecological Indicators</i> , 2013, 25, 279-287.	2.6	143
80	Biodiversity Sampling Using a Global Acoustic Approach: Contrasting Sites with Microendemics in New Caledonia. <i>PLoS ONE</i> , 2013, 8, e65311.	1.1	88
81	A New Freshwater Biodiversity Indicator Based on Fish Community Assemblages. <i>PLoS ONE</i> , 2013, 8, e80968.	1.1	10
82	Ecophylogenetics: advances and perspectives. <i>Biological Reviews</i> , 2012, 87, 769-785.	4.7	341
83	Local gardening practices shape urban lawn floristic communities. <i>Landscape and Urban Planning</i> , 2012, 105, 53-61.	3.4	91
84	Monitoring animal diversity using acoustic indices: Implementation in a temperate woodland. <i>Ecological Indicators</i> , 2012, 13, 46-54.	2.6	294
85	Links between the species abundance distribution and the shape of the corresponding rank abundance curve. <i>Ecological Indicators</i> , 2012, 14, 1-6.	2.6	14
86	ASSESSING PHYLOGENETIC SIGNAL WITH MEASUREMENT ERROR: A COMPARISON OF MANTEL TESTS, BLOMBERG ET AL.'S K, AND PHYLOGENETIC DISTOGRAMS. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 2614-2621.	1.1	59
87	Functional rarefaction for species abundance data. <i>Methods in Ecology and Evolution</i> , 2012, 3, 519-525.	2.2	40
88	Clarifying and developing analyses of biodiversity: towards a generalisation of current approaches. <i>Methods in Ecology and Evolution</i> , 2012, 3, 509-518.	2.2	35
89	Threat Diversity Will Erode Mammalian Phylogenetic Diversity in the Near Future. <i>PLoS ONE</i> , 2012, 7, e46235.	1.1	24
90	New concentration measures as kinds of the quadratic entropy. <i>Ecological Indicators</i> , 2011, 11, 540-544.	2.6	2

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91	Linking patterns in phylogeny, traits, abiotic variables and space: a novel approach to linking environmental filtering and plant community assembly. <i>Journal of Ecology</i> , 2011, 99, 165-175.	1.9	141
92	Diet and fuelling of the globally threatened aquatic warbler at autumn migration stopover as compared with two congeners. <i>Animal Conservation</i> , 2011, 14, 261-270.	1.5	17
93	Measuring biodiversity to explain community assembly: a unified approach. <i>Biological Reviews</i> , 2011, 86, 792-812.	4.7	489
94	Integrating functional diversity into tropical forest plantation designs to study ecosystem processes. <i>Annals of Forest Science</i> , 2010, 67, 303-303.	0.8	14
95	Putting phylogeny into the analysis of biological traits: A methodological approach. <i>Journal of Theoretical Biology</i> , 2010, 264, 693-701.	0.8	60
96	Using biological traits to assess how urbanization filters plant species of small woodlands. <i>Applied Vegetation Science</i> , 2010, 13, 412-424.	0.9	62
97	Decomposition of trait diversity among the nodes of a phylogenetic tree. <i>Ecological Monographs</i> , 2010, 80, 485-507.	2.4	72
98	Variation within and between Closely Related Species Uncovers High Intra-Specific Variability in Dispersal. <i>PLoS ONE</i> , 2010, 5, e11123.	1.1	80
99	Host range as an axis of niche partitioning in the plant-feeding nematode community of banana agroecosystems. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1139-1145.	4.2	13
100	Biological diversity: Distinct distributions can lead to the maximization of Rao's quadratic entropy. <i>Theoretical Population Biology</i> , 2009, 75, 153-163.	0.5	19
101	On the challenge of treating various types of variables: application for improving the measurement of functional diversity. <i>Oikos</i> , 2009, 118, 391-402.	1.2	473
102	Hierarchical partitioning of evolutionary and ecological patterns in the organization of phylogenetically structured species assemblages: application to rockfish (genus: <i>Sebastes</i>) in the Southern California Bight. <i>Ecology Letters</i> , 2009, 12, 898-908.	3.0	71
103	Corrigendum. <i>Ecology Letters</i> , 2009, 12, 999-999.	3.0	21
104	Relationships between channelization structures, environmental characteristics, and plant communities in four French streams in the Seine-Normandy catchment. <i>Journal of the North American Benthological Society</i> , 2009, 28, 596-610.	3.0	14
105	Testing for phylogenetic signal in phenotypic traits: New matrices of phylogenetic proximities. <i>Theoretical Population Biology</i> , 2008, 73, 79-91.	0.5	111
106	Can host range allow niche differentiation of invasive polyphagous fruit flies (Diptera: Tephritidae) in La Réunion?. <i>Ecological Entomology</i> , 2008, 33, 439-452.	1.1	38
107	Rapid Acoustic Survey for Biodiversity Appraisal. <i>PLoS ONE</i> , 2008, 3, e4065.	1.1	448
108	A NEW TECHNIQUE FOR ORDERING ASYMMETRICAL THREE-DIMENSIONAL DATA SETS IN ECOLOGY. <i>Ecology</i> , 2007, 88, 512-523.	1.5	10

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109	New analysis for consistency among markers in the study of genetic diversity: development and application to the description of bacterial diversity. <i>BMC Evolutionary Biology</i> , 2007, 7, 156.	3.2	10
110	Is the originality of a species measurable?. <i>Ecology Letters</i> , 2005, 8, 579-586.	3.0	168
111	The apportionment of quadratic entropy: a useful alternative for partitioning diversity in ecological data. <i>Environmental and Ecological Statistics</i> , 2005, 12, 125-138.	1.9	103
112	Measuring diversity from dissimilarities with Rao's quadratic entropy: Are any dissimilarities suitable?. <i>Theoretical Population Biology</i> , 2005, 67, 231-239.	0.5	116
113	From dissimilarities among species to dissimilarities among communities: a double principal coordinate analysis. <i>Journal of Theoretical Biology</i> , 2004, 228, 523-537.	0.8	184