Sandrine Pavoine

List of Publications by Year
in descending order

113	7,730	81839 39	58549 82
papers	citations	h-index	g-index

118	118	118	8813
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A guide to phylogenetic metrics for conservation, community ecology and macroecology. Biological Reviews, 2017, 92, 698-715.	4.7	570
2	Measuring biodiversity to explain community assembly: a unified approach. Biological Reviews, 2011, 86, 792-812.	4.7	489
3	On the challenge of treating various types of variables: application for improving the measurement of functional diversity. Oikos, 2009, 118, 391-402.	1.2	473
4	Rapid Acoustic Survey for Biodiversity Appraisal. PLoS ONE, 2008, 3, e4065.	1.1	448
5	Combining the fourthâ€corner and the RLQ methods for assessing trait responses to environmental variation. Ecology, 2014, 95, 14-21.	1.5	398
6	Ecophylogenetics: advances and perspectives. Biological Reviews, 2012, 87, 769-785.	4.7	341
7	Acoustic Indices for Biodiversity Assessment and Landscape Investigation. Acta Acustica United With Acustica, 2014, 100, 772-781.	0.8	336
8	A guide for using functional diversity indices to reveal changes in assembly processes along ecological gradients. Journal of Vegetation Science, 2013, 24, 794-806.	1.1	316
9	Monitoring animal diversity using acoustic indices: Implementation in a temperate woodland. Ecological Indicators, 2012, 13, 46-54.	2.6	294
10	Multivariate Analysis of Ecological Data with ade4. , 2018, , .		206
11	Measuring the functional redundancy of biological communities: a quantitative guide. Methods in Ecology and Evolution, 2016, 7, 1386-1395.	2.2	197
12	From dissimilarities among species to dissimilarities among communities: a double principal coordinate analysis. Journal of Theoretical Biology, 2004, 228, 523-537.	0.8	184
13	Is the originality of a species measurable?. Ecology Letters, 2005, 8, 579-586.	3.0	168
14	Urbanisation and the loss of phylogenetic diversity in birds. Ecology Letters, 2017, 20, 721-729.	3.0	145
15	Assessing biodiversity with sound: Do acoustic diversity indices reflect phylogenetic and functional diversities of bird communities?. Ecological Indicators, 2013, 25, 279-287.	2.6	143
16	Linking patterns in phylogeny, traits, abiotic variables and space: a novel approach to linking environmental filtering and plant community assembly. Journal of Ecology, 2011, 99, 165-175.	1.9	141
17	Measuring diversity from dissimilarities with Rao's quadratic entropy: Are any dissimilarities suitable?. Theoretical Population Biology, 2005, 67, 231-239.	0.5	116
18	Testing for phylogenetic signal in phenotypic traits: New matrices of phylogenetic proximities. Theoretical Population Biology, 2008, 73, 79-91.	0.5	111

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19	The apportionment of quadratic entropy: a useful alternative for partitioning diversity in ecological data. Environmental and Ecological Statistics, 2005, 12, 125-138.	1.9	103
20	Correlations between phylogenetic and functional diversity: mathematical artefacts or true ecological and evolutionary processes?. Journal of Vegetation Science, 2013, 24, 781-793.	1.1	103
21	The worldwide impact of urbanisation on avian functional diversity. Ecology Letters, 2020, 23, 962-972.	3.0	95
22	Local gardening practices shape urban lawn floristic communities. Landscape and Urban Planning, 2012, 105, 53-61.	3.4	91
23	Biodiversity Sampling Using a Global Acoustic Approach: Contrasting Sites with Microendemics in New Caledonia. PLoS ONE, 2013, 8, e65311.	1.1	88
24	Acoustic indices for biodiversity assessments: Analyses of bias based on simulated bird assemblages and recommendations for field surveys. Biological Conservation, 2015, 191, 306-312.	1.9	87
25	Temporal and spatial variability of animal sound within a neotropical forest. Ecological Informatics, 2014, 21, 133-143.	2.3	86
26	Variation within and between Closely Related Species Uncovers High Intra-Specific Variability in Dispersal. PLoS ONE, 2010, 5, e11123.	1.1	80
27	Decomposition of trait diversity among the nodes of a phylogenetic tree. Ecological Monographs, 2010, 80, 485-507.	2.4	72
28	Hierarchical partitioning of evolutionary and ecological patterns in the organization of phylogeneticallyâ€structured species assemblages: application to rockfish (genus: Sebastes) in the Southern California Bight. Ecology Letters, 2009, 12, 898-908.	3.0	71
29	Monitoring temporal change of bird communities with dissimilarity acoustic indices. Methods in Ecology and Evolution, 2014, 5, 495-505.	2.2	69
30	Predicting loss of evolutionary history: Where are we?. Biological Reviews, 2017, 92, 271-291.	4.7	67
31	Reconciling the concepts and measures of diversity, rarity and originality in ecology and evolution. Biological Reviews, 2019, 94, 1317-1337.	4.7	67
32	adiv: An <scp>r</scp> package to analyse biodiversity in ecology. Methods in Ecology and Evolution, 2020, 11, 1106-1112.	2.2	63
33	Using biological traits to assess how urbanization filters plant species of small woodlands. Applied Vegetation Science, 2010, 13, 412-424.	0.9	62
34	Putting phylogeny into the analysis of biological traits: A methodological approach. Journal of Theoretical Biology, 2010, 264, 693-701.	0.8	60
35	ASSESSING PHYLOGENETIC SIGNAL WITH MEASUREMENT ERROR: A COMPARISON OF MANTEL TESTS, BLOMBERG ET AL.'S K, AND PHYLOGENETIC DISTOGRAMS. Evolution; International Journal of Organic Evolution, 2012, 66, 2614-2621.	1.1	59
36	Functional and phylogenetic similarity among communities. Methods in Ecology and Evolution, 2014, 5, 666-675.	2.2	53

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37	From phylogenetic to functional originality: Guide through indices and new developments. Ecological Indicators, 2017, 82, 196-205.	2.6	47
38	First description of underwater acoustic diversity in three temperate ponds. PeerJ, 2015, 3, e1393.	0.9	47
39	Urbanization Effects on Biodiversity Revealed by a Two-Scale Analysis of Species Functional Uniqueness vs. Redundancy. Frontiers in Ecology and Evolution, 2020, 8, .	1.1	44
40	Functional rarefaction for species abundance data. Methods in Ecology and Evolution, 2012, 3, 519-525.	2.2	40
41	Statistical ecology comes of age. Biology Letters, 2014, 10, 20140698.	1.0	40
42	Can hostâ€range allow niche differentiation of invasive polyphagous fruit flies (Diptera: Tephritidae) in La RÃ©union?. Ecological Entomology, 2008, 33, 439-452.	1.1	38
43	TESTING FOR PHYLOGENETIC SIGNAL IN BIOLOGICAL TRAITS: THE UBIQUITY OF CROSS-PRODUCT STATISTICS. Evolution; International Journal of Organic Evolution, 2013, 67, 828-840.	1.1	38
44	Clarifying and developing analyses of biodiversity: towards a generalisation of current approaches. Methods in Ecology and Evolution, 2012, 3, 509-518.	2.2	35
45	Does trait conservatism guarantee that indicators of phylogenetic community structure will reveal nicheâ€based assembly processes along stress gradients?. Journal of Vegetation Science, 2013, 24, 820-833.	1.1	31
46	Life history traits, but not phylogeny, drive compositional patterns in a butterfly metacommunity. Ecology, 2014, 95, 3304-3313.	1.5	31
47	A guide through a family of phylogenetic dissimilarity measures among sites. Oikos, 2016, 125, 1719-1732.	1.2	31
48	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
49	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
50	A global database for metacommunity ecology, integrating species, traits, environment and space. Scientific Data, 2020, 7, 6.	2.4	28
51	Environment outweighs the effects of fishing in regulating demersal community structure in an exploited marine ecosystem. Global Change Biology, 2020, 26, 2106-2119.	4.2	27
52	Revisiting species and areas of interest for conserving global mammalian phylogenetic diversity. Nature Communications, 2021, 12, 3694.	5.8	25
53	A framework for understanding how biodiversity patterns unfold across multiple spatial scales in urban ecosystems. Ecosphere, 2021, 12, e03650.	1.0	24
54	Threat Diversity Will Erode Mammalian Phylogenetic Diversity in the Near Future. PLoS ONE, 2012, 7, e46235.	1.1	24

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55	Specialists leave fewer descendants within a region than generalists. Global Ecology and Biogeography, 2013, 22, 213-222.	2.7	23
56	Explosive breeding in tropical anurans: environmental triggers, community composition and acoustic structure. BMC Ecology, 2019, 19, 28.	3.0	23
57	A simple translation from indices of species diversity to indices of phylogenetic diversity. Ecological Indicators, 2019, 101, 552-561.	2.6	22
58	Corrigendum. Ecology Letters, 2009, 12, 999-999.	3.0	21
59	A multiple-site dissimilarity measure for species presence/absence data and its relationship with nestedness and turnover. Ecological Indicators, 2015, 54, 203-206.	2.6	20
60	Integrating dataâ€deficient species in analyses of evolutionary history loss. Ecology and Evolution, 2016, 6, 8502-8514.	0.8	20
61	Biological diversity: Distinct distributions can lead to the maximization of Raoâ€™s quadratic entropy. Theoretical Population Biology, 2009, 75, 153-163.	0.5	19
62	Considering external information to improve the phylogenetic comparison of microbial communities: a new approach based on constrained Double Principal Coordinates Analysis (<scp>cDPCoA</scp>). Molecular Ecology Resources, 2015, 15, 242-249.	2.2	19
63	Species splitting increases estimates of evolutionary history at risk. Biological Conservation, 2019, 235, 27-35.	1.9	19
64	From alpha to beta functional and phylogenetic redundancy. Methods in Ecology and Evolution, 2020, 11, 487-493.	2.2	19
65	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
66	Diet and fuelling of the globally threatened aquatic warbler at autumn migration stopover as compared with two congeners. Animal Conservation, 2011, 14, 261-270.	1.5	17
67	A family of functional dissimilarity measures for presence and absence data. Ecology and Evolution, 2016, 6, 5383-5389.	0.8	16
68	Measuring functional dissimilarity among plots: Adapting old methods to new questions. Ecological Indicators, 2019, 97, 67-72.	2.6	15
69	Relationships between channelization structures, environmental characteristics, and plant communities in four French streams in the Seineâ€“Normandy catchment. Journal of the North American Benthological Society, 2009, 28, 596-610.	3.0	14
70	Integrating functional diversity into tropical forest plantation designs to study ecosystem processes. Annals of Forest Science, 2010, 67, 303-303.	0.8	14
71	Links between the species abundance distribution and the shape of the corresponding rank abundance curve. Ecological Indicators, 2012, 14, 1-6.	2.6	14
72	A New Technique for Analysing Interacting Factors Affecting Biodiversity Patterns: Crossed-DPCoA. PLoS ONE, 2013, 8, e54530.	1.1	14

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73	The Evolutionary Legacy of Diversification Predicts Ecosystem Function. American Naturalist, 2016, 188, 398-410.	1.0	14
74	Indicators for the Expected Loss of Phylogenetic Diversity. , 2018, , 73-91.		14
75	Host range as an axis of niche partitioning in the plant-feeding nematode community of banana agroecosystems. Soil Biology and Biochemistry, 2009, 41, 1139-1145.	4.2	13
76	New biodiversity measure that includes consistent interspecific and intraspecific components. Methods in Ecology and Evolution, 2014, 5, 165-172.	2.2	13
77	Measuring similarity among plots including similarity among species: an extension of traditional approaches. Journal of Vegetation Science, 2015, 26, 1061-1067.	1.1	13
78	Assembly rules of helminth parasite communities in grey mullets: combining components of diversity. International Journal for Parasitology, 2020, 50, 1089-1098.	1.3	13
79	Loss and conservation of evolutionary history in the Mediterranean Basin. BMC Ecology, 2016, 16, 43.	3.0	12
80	Mammal extinctions and the increasing isolation of humans on the tree of life. Ecology and Evolution, 2019, 9, 914-924.	0.8	12
81	A NEW TECHNIQUE FOR ORDERING ASYMMETRICAL THREE-DIMENSIONAL DATA SETS IN ECOLOGY. Ecology, 2007, 88, 512-523.	1.5	10
82	New analysis for consistency among markers in the study of genetic diversity: development and application to the description of bacterial diversity. BMC Evolutionary Biology, 2007, 7, 156.	3.2	10
83	A new method for quantifying the phylogenetic redundancy of biological communities. Oecologia, 2018, 186, 339-346.	0.9	10
84	Towards a unifying framework for diversity and dissimilarity coefficients. Ecological Indicators, 2021, 129, 107971.	2.6	10
85	A New Freshwater Biodiversity Indicator Based on Fish Community Assemblages. PLoS ONE, 2013, 8, e80968.	1.1	10
86	A cautionary note on some phylogenetic dissimilarity measures. Journal of Plant Ecology, 2015, 8, 12-16.	1.2	9
87	A Generalized Framework for Analyzing Taxonomic, Phylogenetic, and Functional Community Structure Based on Presenceâ€“Absence Data. Mathematics, 2018, 6, 250.	1.1	9
88	Predicting the impacts of co-extinctions on phylogenetic diversity in mutualistic networks. Biological Conservation, 2018, 219, 161-171.	1.9	8
89	On the relationships between rarity, uniqueness, distinctiveness, originality and functional/phylogenetic diversity. Biological Conservation, 2021, 263, 109356.	1.9	8
90	A new parametric measure of functional dissimilarity: Bridging the gap between the Bray-Curtis dissimilarity and the Euclidean distance. Ecological Modelling, 2022, 466, 109880.	1.2	8

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91	Ecological versatility and the assembly of multiple competitors: cautionary notes for assembly inferences. Ecology, 2018, 99, 1173-1183.	1.5	7
92	Trait and phylogenetic diversity provide insights into community assembly of reefâ€associated shrimps (Palaemonidae) at different spatial scales across the Chagos Archipelago. Ecology and Evolution, 2018, 8, 4098-4107.	0.8	7
93	Comparing taxon- and trait-environment relationships in stream communities. Ecological Indicators, 2020, 117, 106625.	2.6	7
94	Disturbed habitats locally reduce the signal of deep evolutionary history in functional traits of plants. New Phytologist, 2021, 232, 1849-1862.	3.5	7
95	Rarefaction of beta diversity. Ecological Indicators, 2019, 107, 105606.	2.6	6
96	Traitâ€habitat associations explain novel bird assemblages mixing native and alien species across New Zealand landscapes. Diversity and Distributions, 2022, 28, 38-52.	1.9	6
97	Functional imbalance not functional evenness is the third component of community structure. Ecological Indicators, 2022, 140, 109035.	2.6	6
98	Beta redundancy for functional ecology. Methods in Ecology and Evolution, 2021, 12, 1062-1069.	2.2	5
99	Priority Areas for Phylogenetic Diversity: Maximising Gains in the Mediterranean Basin. , 2018, , 145-166.		4
100	Species living in harsh environments have low clade rank and are localized on former Laurasian continents: a case study of Willemia (Collembola). Journal of Biogeography, 2014, 41, 353-365.	1.4	3
101	Ancestrality and evolution of trait syndromes in finches (Fringillidae). Ecology and Evolution, 2017, 7, 9935-9953.	0.8	3
102	An ordination approach to explore similarities among communities. Journal of Theoretical Biology, 2019, 462, 85-96.	0.8	3
103	A new method for indicator species analysis in the framework of multivariate analysis of variance. Journal of Vegetation Science, 2021, 32, e13013.	1.1	3
104	Trade-offs in the conservation of phylogenetically distinctive species. Biological Conservation, 2022, 270, 109565.	1.9	3
105	New concentration measures as kinds of the quadratic entropy. Ecological Indicators, 2011, 11, 540-544.	2.6	2
106	Effects of life-history traits and network topological characteristics on the robustness of marine food webs. Global Ecology and Conservation, 2022, 34, e02048.	1.0	2
107	Relating Species Traits to Environment. , 2018, , 223-237.		1
108	Analysing Spatial Structures. , 2018, , 239-260.		1

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109	On two dissimilarity-based measures of functional beta diversity. Ecological Informatics, 2021, 66, 101458.	2.3	1
110	Analysing Patterns of Biodiversity. , 2018, , 281-294.		0
111	Analysing Changes in Structures. , 2018, , 167-204.		0
112	Analysing Phylogenetic Structures. , 2018, , 261-280.		0
113	Biomass of slow life history species increases as local bottom trawl effort decreases in the Celtic sea. Journal of Environmental Management, 2021, 290, 112634.	3.8	0