

Stéphane Dray

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

16,862
citations

76196

40
h-index

64668

79
g-index

82
all docs

82
docs citations

82
times ranked

24148
citing authors

#	ARTICLE	IF	CITATIONS
1	The ade4 Package: Implementing the Duality Diagram for Ecologists. <i>Journal of Statistical Software</i> , 2007, 22, .	1.8	4,463
2	The global spectrum of plant form and function. <i>Nature</i> , 2016, 529, 167-171.	13.7	2,022
3	VARIATION PARTITIONING OF SPECIES DATA MATRICES: ESTIMATION AND COMPARISON OF FRACTIONS. <i>Ecology</i> , 2006, 87, 2614-2625.	1.5	1,875
4	Spatial modelling: a comprehensive framework for principal coordinate analysis of neighbour matrices (PCNM). <i>Ecological Modelling</i> , 2006, 196, 483-493.	1.2	1,572
5	How to measure and test phylogenetic signal. <i>Methods in Ecology and Evolution</i> , 2012, 3, 743-756.	2.2	759
6	CO-INERTIA ANALYSIS AND THE LINKING OF ECOLOGICAL DATA TABLES. <i>Ecology</i> , 2003, 84, 3078-3089.	1.5	507
7	Community ecology in the age of multivariate multiscale spatial analysis. <i>Ecological Monographs</i> , 2012, 82, 257-275.	2.4	506
8	TESTING THE SPECIES TRAITS-ENVIRONMENT RELATIONSHIPS: THE FOURTH-CORNER PROBLEM REVISITED. <i>Ecology</i> , 2008, 89, 3400-3412.	1.5	495
9	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
10	<i>ade4phylo</i> : new tools for investigating the phylogenetic signal in biological traits. <i>Bioinformatics</i> , 2010, 26, 1907-1909.	1.8	336
11	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
12	Assessing species and community functional responses to environmental gradients: which multivariate methods?. <i>Journal of Vegetation Science</i> , 2012, 23, 805-821.	1.1	228
13	Supervised Multiblock Analysis in <i>R</i> with the ade4 Package. <i>Journal of Statistical Software</i> , 2018, 86, .	1.8	198
14	Interactive Multivariate Data Analysis in <i>R</i> with the ade4 and ade4TkGUI Packages. <i>Journal of Statistical Software</i> , 2007, 22, .	1.8	151
15	The concept of animals' trajectories from a data analysis perspective. <i>Ecological Informatics</i> , 2009, 4, 34-41.	2.3	150
16	Principal component analysis with missing values: a comparative survey of methods. <i>Plant Ecology</i> , 2015, 216, 657-667.	0.7	149
17	Responding to spatial and temporal variations in predation risk: space use of a game species in a changing landscape of fear. <i>Canadian Journal of Zoology</i> , 2009, 87, 1129-1137.	0.4	145
18	Improved testing of species traits-environment relationships in the fourth-corner problem. <i>Ecology</i> , 2012, 93, 1525-1526.	1.5	135

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19	Linking trait variation to the environment: critical issues with community-weighted mean correlation resolved by the fourth-corner approach. <i>Ecography</i> , 2017, 40, 806-816.	2.1	124
20	Optimizing the choice of a spatial weighting matrix in eigenvector-based methods. <i>Ecology</i> , 2018, 99, 2159-2166.	1.5	106
21	Assessing the effects of spatial contingency and environmental filtering on metacommunity phylogenetics. <i>Ecology</i> , 2012, 93, S14.	1.5	105
22	On the number of principal components: A test of dimensionality based on measurements of similarity between matrices. <i>Computational Statistics and Data Analysis</i> , 2008, 52, 2228-2237.	0.7	104
23	Functional analysis of Normalized Difference Vegetation Index curves reveals overwinter mule deer survival is driven by both spring and autumn phenology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130196.	1.8	97
24	Disentangling good from bad practices in the selection of spatial or phylogenetic eigenvectors. <i>Ecography</i> , 2018, 41, 1638-1649.	2.1	84
25	Generating spatially constrained null models for irregularly spaced data using Moran spectral randomization methods. <i>Methods in Ecology and Evolution</i> , 2015, 6, 1169-1178.	2.2	83
26	Spatial ordination of vegetation data using a generalization of Wartenberg's multivariate spatial correlation. <i>Journal of Vegetation Science</i> , 2008, 19, 45-56.	1.1	80
27	Unexpected male choosiness for mates in a spider. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 77-82.	1.2	77
28	Addressing ecological effects of radiation on populations and ecosystems to improve protection of the environment against radiation: Agreed statements from a Consensus Symposium. <i>Journal of Environmental Radioactivity</i> , 2016, 158-159, 21-29.	0.9	75
29	Beyond neutrality: disentangling the effects of species sorting and spurious correlations in community analysis. <i>Ecology</i> , 2018, 99, 1737-1747.	1.5	62
30	The exploratory analysis of autocorrelation in animal movement studies. <i>Ecological Research</i> , 2010, 25, 673-681.	0.7	61
31	Molecular phylogeny of the highly diversified catfish subfamily Loricariinae (Siluriformes,). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Evolution</i> , 2016, 94, 492-517.	1.2	61
32	CONSISTENCY BETWEEN ORDINATION TECHNIQUES AND DIVERSITY MEASUREMENTS: TWO STRATEGIES FOR SPECIES OCCURRENCE DATA. <i>Ecology</i> , 2003, 84, 242-251.	1.5	56
33	Spatial variation in springtime food resources influences the winter body mass of roe deer fawns. <i>Oecologia</i> , 2003, 137, 363-369.	0.9	54
34	Reciprocal modulation of internal and external factors determines individual movements. <i>Journal of Animal Ecology</i> , 2013, 82, 290-300.	1.3	54
35	Finding essential scales of spatial variation in ecological data: a multivariate approach. <i>Ecography</i> , 2009, 32, 161-168.	2.1	53
36	A New Perspective about Moran's Coefficient: Spatial Autocorrelation as a Linear Regression Problem. <i>Moran's Coefficient as a Linear Regression Problem. Geographical Analysis</i> , 2011, 43, 127-141.	1.9	53

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37	Disentangling plant trait responses to livestock grazing from spatio-temporal variation: the partial RLQ approach. <i>Journal of Vegetation Science</i> , 2012, 23, 98-113.	1.1	53
38	Does local habitat fragmentation affect large-scale distributions? The case of a specialist grassland bird. <i>Diversity and Distributions</i> , 2013, 19, 423-432.	1.9	53
39	Make Love Not War: When Should Less Competitive Males Choose Low-Quality but Defendable Females?. <i>American Naturalist</i> , 2010, 175, 650-661.	1.0	49
40	Diversity indices for ecological networks: a unifying framework using Hill numbers. <i>Ecology Letters</i> , 2019, 22, 737-747.	3.0	49
41	Relationships between species feeding traits and environmental conditions in fish communities: a three-matrix approach. , 2011, 21, 363-377.		46
42	Title is missing!. <i>Plant Ecology</i> , 2002, 162, 143-156.	0.7	45
43	Broad-scale biodiversity pattern of the endemic tree flora of the Western Ghats (India) using canonical correlation analysis of herbarium records. <i>Ecography</i> , 2003, 26, 429-444.	2.1	42
44	Procrustean co-inertia analysis for the linking of multivariate datasets. <i>Ecoscience</i> , 2003, 10, 110-119.	0.6	41
45	adegraphics: An S4 Lattice-Based Package for the Representation of Multivariate Data. <i>R Journal</i> , 2017, 9, 198.	0.7	41
46	Statistical ecology comes of age. <i>Biology Letters</i> , 2014, 10, 20140698.	1.0	40
47	Testing the Mantel statistic with a spatially-constrained permutation procedure. <i>Methods in Ecology and Evolution</i> , 2019, 10, 532-540.	2.2	40
48	A critical issue in model-based inference for studying trait-based community assembly and a solution. <i>PeerJ</i> , 2017, 5, e2885.	0.9	39
49	TESTING SEXUAL SEGREGATION AND AGGREGATION: OLD WAYS ARE BEST. <i>Ecology</i> , 2007, 88, 3202-3208.	1.5	38
50	Revisiting Guerry's data: Introducing spatial constraints in multivariate analysis. <i>Annals of Applied Statistics</i> , 2011, 5, .	0.5	38
51	Resource partitioning in a grazer guild feeding on a multilayer diatom mat. <i>Journal of the North American Benthological Society</i> , 2006, 25, 800-810.	3.0	36
52	Assessing phylogenetic dependence of morphological traits using co-inertia prior to investigate character evolution in Loricariinae catfishes. <i>Molecular Phylogenetics and Evolution</i> , 2008, 46, 986-1002.	1.2	31
53	Simple parametric tests for trait-environment association. <i>Journal of Vegetation Science</i> , 2018, 29, 801-811.	1.1	27
54	Spatial analyses of multi-trophic terrestrial vertebrate assemblages in Europe. <i>Global Ecology and Biogeography</i> , 2019, 28, 1636-1648.	2.7	27

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55	Matching data sets from two different spatial samples. <i>Journal of Vegetation Science</i> , 2002, 13, 867-874.	1.1	26
56	Flower phenology as a disruptor of the fruiting dynamics in temperate oak species. <i>New Phytologist</i> , 2020, 225, 1181-1192.	3.5	26
57	Nine quick tips for analyzing network data. <i>PLoS Computational Biology</i> , 2019, 15, e1007434.	1.5	23
58	Spatial Distribution of a Large Herbivore Community at Waterholes: An Assessment of Its Stability over Years in Hwange National Park, Zimbabwe. <i>PLoS ONE</i> , 2016, 11, e0153639.	1.1	21
59	Spatially constrained clustering of ecological networks. <i>Methods in Ecology and Evolution</i> , 2014, 5, 771-779.	2.2	20
60	ANALYZING OR EXPLAINING BETA DIVERSITY? COMMENT. <i>Ecology</i> , 2008, 89, 3227-3232.	1.5	19
61	Considering external information to improve the phylogenetic comparison of microbial communities: a new approach based on constrained Double Principal Coordinates Analysis (<scp>cDPCoA</scp>). <i>Molecular Ecology Resources</i> , 2015, 15, 242-249.	2.2	19
62	Algorithms and biplots for double constrained correspondence analysis. <i>Environmental and Ecological Statistics</i> , 2018, 25, 171-197.	1.9	19
63	Interspecific interference competition at the resource patch scale: do large herbivores spatially avoid elephants while accessing water?. <i>Journal of Animal Ecology</i> , 2016, 85, 1574-1585.	1.3	16
64	Factors shaping community assemblages and species co-occurrence of different trophic levels. <i>Ecology and Evolution</i> , 2017, 7, 4745-4754.	0.8	16
65	Predator-prey spatial game as a tool to understand the effects of protected areas on harvester-wildlife interactions. <i>Ecological Applications</i> , 2012, 22, 648-657.	1.8	14
66	Integrating spatial and phylogenetic information in the fourth-corner analysis to test trait-environment relationships. <i>Ecology</i> , 2018, 99, 2667-2674.	1.5	14
67	Modelling bovine trypanosomosis spatial distribution by GIS in an agro-pastoral zone of Burkina Faso. <i>Preventive Veterinary Medicine</i> , 2002, 56, 5-18.	0.7	13
68	Phenotypic plasticity in the invasive pest <i>Drosophila suzukii</i>: activity rhythms and gene expression in response to temperature. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	12
69	Genetic and species-level biodiversity patterns are linked by demography and ecological opportunity. <i>Evolution; International Journal of Organic Evolution</i> , 2022, 76, 86-100.	1.1	11
70	Overcoming the Spurious Groups Problem in Between-Group PCA. <i>Evolutionary Biology</i> , 2021, 48, 458-471.	0.5	9
71	Multivariate Analysis of Incomplete Mapped Data. <i>Transactions in GIS</i> , 2003, 7, 411-422.	1.0	8
72	Functional Traits Reveal Processes Driving Natural Afforestation at Large Spatial Scales. <i>PLoS ONE</i> , 2013, 8, e75219.	1.1	8

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73	Matching data sets from two different spatial samples. , 2002, 13, 867.		8
74	Can an herbivore affect where a top predator kills its prey by modifying woody vegetation structure?. Oecologia, 2020, 192, 779-789.	0.9	6
75	Coupling Principal Component Analysis and GIS to map deer habitats. Wildlife Biology, 2005, 11, 363-370.	0.6	5
76	Investigating microbial associations from sequencing survey data with co-correspondence analysis. Molecular Ecology Resources, 2020, 20, 468-480.	2.2	5
77	An appraisal of graph embeddings for comparing trophic network architectures. Methods in Ecology and Evolution, 2022, 13, 203-216.	2.2	5
78	Are human natal sex ratio differences across the world adaptive? A test of Fisher's principle. Biology Letters, 2021, 17, 20200620.	1.0	3
79	Long-term high densities of African elephants clear the understorey and promote a new stable savanna woodland community. Journal of Vegetation Science, 2021, 32, .	1.1	2
80	Heterogeneity of water physico-chemical characteristics in artificially pumped waterholes: do African herbivores drink at the same locations and does it lead to interference competition?. Journal of Arid Environments, 2020, 173, 104014.	1.2	1