Stéphane Dray

List of Publications by Year
in descending order

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	An appraisal of graph embeddings for comparing trophic network architectures. Methods in Ecology and Evolution, 2022, 13, 203-216.	2.2	5
2	Genetic and species‐level biodiversity patterns are linked by demography and ecological opportunity. Evolution; International Journal of Organic Evolution, 2022, 76, 86-100.	1.1	11
3	Are human natal sex ratio differences across the world adaptive? A test of Fisher's principle. Biology Letters, 2021, 17, 20200620.	1.0	3
4	Overcoming the Spurious Groups Problem in Between-Group PCA. Evolutionary Biology, 2021, 48, 458-471.	0.5	9
5	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
6	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
7	Flower phenology as a disruptor of the fruiting dynamics in temperate oak species. New Phytologist, 2020, 225, 1181-1192.	3.5	26
8	Investigating microbial associations from sequencing survey data with co‐correspondence analysis. Molecular Ecology Resources, 2020, 20, 468-480.	2.2	5
9	Can an herbivore affect where a top predator kills its prey by modifying woody vegetation structure?. Oecologia, 2020, 192, 779-789.	0.9	6
10	Spatial analyses of multi‐trophic terrestrial vertebrate assemblages in Europe. Global Ecology and Biogeography, 2019, 28, 1636-1648.	2.7	27
11	Phenotypic plasticity in the invasive pest <i>Drosophila suzukii</i>: activity rhythms and gene expression in response to temperature. Journal of Experimental Biology, 2019, 222, .	0.8	12
12	Diversity indices for ecological networks: a unifying framework using Hill numbers. Ecology Letters, 2019, 22, 737-747.	3.0	49
13	Nine quick tips for analyzing network data. PLoS Computational Biology, 2019, 15, e1007434.	1.5	23
14	Testing the Mantel statistic with a spatially‐constrained permutation procedure. Methods in Ecology and Evolution, 2019, 10, 532-540.	2.2	40
15	Disentangling good from bad practices in the selection of spatial or phylogenetic eigenvectors. Ecography, 2018, 41, 1638-1649.	2.1	84
16	Algorithms and biplots for double constrained correspondence analysis. Environmental and Ecological Statistics, 2018, 25, 171-197.	1.9	19
17	Beyond neutrality: disentangling the effects of species sorting and spurious correlations in community analysis. Ecology, 2018, 99, 1737-1747.	1.5	62
18	Integrating spatial and phylogenetic information in the fourth‐corner analysis to test trait–environment relationships. Ecology, 2018, 99, 2667-2674.	1.5	14

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19	Optimizing the choice of a spatial weighting matrix in eigenvector‐based methods. Ecology, 2018, 99, 2159-2166.	1.5	106
20	Simple parametric tests for trait–environment association. Journal of Vegetation Science, 2018, 29, 801-811.	1.1	27
21	Supervised Multiblock Analysis in <i>R</i> with the ade4 Package. Journal of Statistical Software, 2018, 86, .	1.8	198
22	Factors shaping community assemblages and species co‐occurrence of different trophic levels. Ecology and Evolution, 2017, 7, 4745-4754.	0.8	16
23	Linking trait variation to the environment: critical issues with community‐weighted mean correlation resolved by the fourth‐corner approach. Ecography, 2017, 40, 806-816.	2.1	124
24	adegraphics: An S4 Lattice-Based Package for the Representation of Multivariate Data. R Journal, 2017, 9, 198.	0.7	41
25	A critical issue in model-based inference for studying trait-based community assembly and a solution. PeerJ, 2017, 5, e2885.	0.9	39
26	Addressing ecological effects of radiation on populations and ecosystems to improve protection of the environment against radiation: Agreed statements from a Consensus Symposium. Journal of Environmental Radioactivity, 2016, 158-159, 21-29.	0.9	75
27	Interspecific interference competition at the resource patch scale: do large herbivores spatially avoid elephants while accessing water?. Journal of Animal Ecology, 2016, 85, 1574-1585.	1.3	16
28	The global spectrum of plant form and function. Nature, 2016, 529, 167-171.	13.7	2,022
29	Molecular phylogeny of the highly diversified catfish subfamily Loricariinae (Siluriformes,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Evolution, 2016, 94, 492-517.	1.2	61
30	Spatial Distribution of a Large Herbivore Community at Waterholes: An Assessment of Its Stability over Years in Hwange National Park, Zimbabwe. PLoS ONE, 2016, 11, e0153639.	1.1	21
31	Generating spatially constrained null models for irregularly spaced data using <scp>M</scp>oran spectral randomization methods. Methods in Ecology and Evolution, 2015, 6, 1169-1178.	2.2	83
32	Principal component analysis with missing values: a comparative survey of methods. Plant Ecology, 2015, 216, 657-667.	0.7	149
33	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
34	Statistical ecology comes of age. Biology Letters, 2014, 10, 20140698.	1.0	40
35	Functional analysis of Normalized Difference Vegetation Index curves reveals overwinter mule deer survival is driven by both spring and autumn phenology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130196.	1.8	97
36	Combining the fourth‐corner and the RLQ methods for assessing trait responses to environmental variation. Ecology, 2014, 95, 14-21.	1.5	398

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37	Spatially constrained clustering of ecological networks. Methods in Ecology and Evolution, 2014, 5, 771-779.	2.2	20
38	Reciprocal modulation of internal and external factors determines individual movements. Journal of Animal Ecology, 2013, 82, 290-300.	1.3	54
39	Does local habitat fragmentation affect large-scale distributions? The case of a specialist grassland bird. Diversity and Distributions, 2013, 19, 423-432.	1.9	53
40	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
41	Functional Traits Reveal Processes Driving Natural Afforestation at Large Spatial Scales. PLoS ONE, 2013, 8, e75219.	1.1	8
42	Assessing the effects of spatial contingency and environmental filtering on metacommunity phylogenetics. Ecology, 2012, 93, S14.	1.5	105
43	Predator–prey spatial game as a tool to understand the effects of protected areas on harvester–wildlife interactions. Ecological Applications, 2012, 22, 648-657.	1.8	14
44	Community ecology in the age of multivariate multiscale spatial analysis. Ecological Monographs, 2012, 82, 257-275.	2.4	506
45	Improved testing of species traits–environment relationships in the fourth–corner problem. Ecology, 2012, 93, 1525-1526.	1.5	135
46	Disentangling plant trait responses to livestock grazing from spatio–temporal variation: the partial RLQ approach. Journal of Vegetation Science, 2012, 23, 98-113.	1.1	53
47	Assessing species and community functional responses to environmental gradients: which multivariate methods?. Journal of Vegetation Science, 2012, 23, 805-821.	1.1	228
48	How to measure and test phylogenetic signal. Methods in Ecology and Evolution, 2012, 3, 743-756.	2.2	759
49	Relationships between species feeding traits and environmental conditions in fish communities: a three-matrix approach. , 2011, 21, 363-377.		46
50	Revisiting Guerry's data: Introducing spatial constraints in multivariate analysis. Annals of Applied Statistics, 2011, 5, .	0.5	38
51	A New Perspective about Moran's Coefficient: Spatial Autocorrelation as a Linear Regression Problem. Moran系数的新解读：空间自相关作为线性回归问题. Geographical Analysis, 2011, 43, 127-141.	1.9	53
52	The exploratory analysis of autocorrelation in animal–movement studies. Ecological Research, 2010, 25, 673-681.	0.7	61
53	<i>adephylo</i>: new tools for investigating the phylogenetic signal in biological traits. Bioinformatics, 2010, 26, 1907-1909.	1.8	336
54	Make Love Not War: When Should Less Competitive Males Choose Low–Quality but Defendable Females?. American Naturalist, 2010, 175, 650-661.	1.0	49

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55	Finding essential scales of spatial variation in ecological data: a multivariate approach. Ecography, 2009, 32, 161-168.	2.1	53
56	The concept of animals' trajectories from a data analysis perspective. Ecological Informatics, 2009, 4, 34-41.	2.3	150
57	Responding to spatial and temporal variations in predation risk: space use of a game species in a changing landscape of fear. Canadian Journal of Zoology, 2009, 87, 1129-1137.	0.4	145
58	On the number of principal components: A test of dimensionality based on measurements of similarity between matrices. Computational Statistics and Data Analysis, 2008, 52, 2228-2237.	0.7	104
59	Assessing phylogenetic dependence of morphological traits using co-inertia prior to investigate character evolution in Loricariinae catfishes. Molecular Phylogenetics and Evolution, 2008, 46, 986-1002.	1.2	31
60	Spatial ordination of vegetation data using a generalization of Wartenberg's multivariate spatial correlation. Journal of Vegetation Science, 2008, 19, 45-56.	1.1	80
61	TESTING THE SPECIES TRAITS–ENVIRONMENT RELATIONSHIPS: THE FOURTH–CORNER PROBLEM REVISITED. Ecology, 2008, 89, 3400-3412.	1.5	495
62	ANALYZING OR EXPLAINING BETA DIVERSITY? COMMENT. Ecology, 2008, 89, 3227-3232.	1.5	19
63	Unexpected male choosiness for mates in a spider. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 77-82.	1.2	77
64	TESTING SEXUAL SEGREGATION AND AGGREGATION: OLD WAYS ARE BEST. Ecology, 2007, 88, 3202-3208.	1.5	38
65	The **ade4** Package: Implementing the Duality Diagram for Ecologists. Journal of Statistical Software, 2007, 22, .	1.8	4,463
66	Interactive Multivariate Data Analysis in *R* with the **ade4** and **ade4TkGUI** Packages. Journal of Statistical Software, 2007, 22, .	1.8	151
67	VARIATION PARTITIONING OF SPECIES DATA MATRICES: ESTIMATION AND COMPARISON OF FRACTIONS. Ecology, 2006, 87, 2614-2625.	1.5	1,875
68	Spatial modelling: a comprehensive framework for principal coordinate analysis of neighbour matrices (PCNM). Ecological Modelling, 2006, 196, 483-493.	1.2	1,572
69	Resource partitioning in a grazer guild feeding on a multilayer diatom mat. Journal of the North American Benthological Society, 2006, 25, 800-810.	3.0	36
70	Coupling Principal Component Analysis and GIS to map deer habitats. Wildlife Biology, 2005, 11, 363-370.	0.6	5
71	Spatial variation in springtime food resources influences the winter body mass of roe deer fawns. Oecologia, 2003, 137, 363-369.	0.9	54
72	Broad-scale biodiversity pattern of the endemic tree flora of the Western Ghats (India) using canonical correlation analysis of herbarium records. Ecography, 2003, 26, 429-444.	2.1	42

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73	Multivariate Analysis of Incomplete Mapped Data. Transactions in GIS, 2003, 7, 411-422.	1.0	8
74	CONSISTENCY BETWEEN ORDINATION TECHNIQUES AND DIVERSITY MEASUREMENTS: TWO STRATEGIES FOR SPECIES OCCURRENCE DATA. Ecology, 2003, 84, 242-251.	1.5	56
75	CO-INERTIA ANALYSIS AND THE LINKING OF ECOLOGICAL DATA TABLES. Ecology, 2003, 84, 3078-3089.	1.5	507
76	Procrustean co-inertia analysis for the linking of multivariate datasets. Ecoscience, 2003, 10, 110-119.	0.6	41
77	Modelling bovine trypanosomosis spatial distribution by GIS in an agro-pastoral zone of Burkina Faso. Preventive Veterinary Medicine, 2002, 56, 5-18.	0.7	13
78	Matching data sets from two different spatial samples. Journal of Vegetation Science, 2002, 13, 867-874.	1.1	26
79	Title is missing!. Plant Ecology, 2002, 162, 143-156.	0.7	45
80	Matching data sets from two different spatial samples. , 2002, 13, 867.		8