# Pierre Legendre

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4233634/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 362 papers | 67,947 citations | 3933 88 h-index | 816 246 g-index |
| 393 all docs | 393 docs citations | 393 times ranked | 51076 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Species Assemblages and Indicator Species: The Need for a Flexible Asymmetrical Approach. Ecological Monographs, 1997, 67, 345. | 5.4 | 4,878 |
| 2 | Ecologically meaningful transformations for ordination of species data. Oecologia, 2001, 129, 271-280. | 2.0 | 4,191 |
| 3 | Partialling out the Spatial Component of Ecological Variation. Ecology, 1992, 73, 1045-1055. | 3.2 | 3,619 |
| 4 | Spatial Autocorrelation: Trouble or New Paradigm?. Ecology, 1993, 74, 1659-1673. | 3.2 | 2,936 |
| 5 | A distanceâ€based framework for measuring functional diversity from multiple traits. Ecology, 2010, 91, 299-305. | 3.2 | 2,787 |
| 6 | Associations between species and groups of sites: indices and statistical inference. Ecology, 2009, 90, 3566-3574. | 3.2 | 2,649 |
| 7 | Wardâ€™s Hierarchical Agglomerative Clustering Method: Which Algorithms Implement Wardâ€™s Criterion?. Journal of Classification, 2014, 31, 274-295. | 2.2 | 2,398 |
| 8 | DISTANCE-BASED REDUNDANCY ANALYSIS: TESTING MULTISPECIES RESPONSES IN MULTIFACTORIAL ECOLOGICAL EXPERIMENTS. Ecological Monographs, 1999, 69, 1-24. | 5.4 | 2,036 |
| 9 | SPECIES ASSEMBLAGES AND INDICATOR SPECIES:THE NEED FOR A FLEXIBLE ASYMMETRICAL APPROACH. Ecological Monographs, 1997, 67, 345-366. | 5.4 | 1,949 |
| 10 | VARIATION PARTITIONING OF SPECIES DATA MATRICES: ESTIMATION AND COMPARISON OF FRACTIONS. Ecology, 2006, 87, 2614-2625. | 3.2 | 1,875 |
| 11 | Spatial pattern and ecological analysis. Plant Ecology, 1989, 80, 107-138. | 1.2 | 1,858 |
| 12 | FORWARD SELECTION OF EXPLANATORY VARIABLES. Ecology, 2008, 89, 2623-2632. | 3.2 | 1,766 |
| 13 | Numerical Ecology with R. , 2011, , . | | 1,684 |
| 14 | All-scale spatial analysis of ecological data by means of principal coordinates of neighbour matrices. Ecological Modelling, 2002, 153, 51-68. | 2.5 | 1,671 |
| 15 | Spatial modelling: a comprehensive framework for principal coordinate analysis of neighbour matrices (PCNM). Ecological Modelling, 2006, 196, 483-493. | 2.5 | 1,572 |
| 16 | Improving indicator species analysis by combining groups of sites. Oikos, 2010, 119, 1674-1684. | 2.7 | 1,041 |
| 17 | ANALYZING BETA DIVERSITY: PARTITIONING THE SPATIAL VARIATION OF COMMUNITY COMPOSITION DATA. Ecological Monographs, 2005, 75, 435-450. | 5.4 | 1,014 |
| 18 | Beta diversity as the variance of community data: dissimilarity coefficients and partitioning. Ecology Letters, 2013, 16, 951-963. | 6.4 | 937 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | DISSECTING THE SPATIAL STRUCTURE OF ECOLOGICAL DATA AT MULTIPLE SCALES. Ecology, 2004, 85, 1826-1832. | 3.2 | 778 |
| 20 | Metric and Euclidean properties of dissimilarity coefficients. Journal of Classification, 1986, 3, 5-48. | 2.2 | 766 |
| 21 | Interpreting the replacement and richness difference components of beta diversity. Global Ecology and Biogeography, 2014, 23, 1324-1334. | 5.8 | 705 |
| 22 | The consequences of spatial structure for the design and analysis of ecological field surveys. Ecography, 2002, 25, 601-615. | 4.5 | 575 |
| 23 | A balanced view of scale in spatial statistical analysis. Ecography, 2002, 25, 626-640. | 4.5 | 564 |
| 24 | Comparison of the Mantel test and alternative approaches for detecting complex multivariate relationships in the spatial analysis of genetic data. Molecular Ecology Resources, 2010, 10, 831-844. | 4.8 | 553 |
| 25 | Partitioning beta diversity in a subtropical broadâ€leaved forest of China. Ecology, 2009, 90, 663-674. | 3.2 | 520 |
| 26 | Community ecology in the age of multivariate multiscale spatial analysis. Ecological Monographs, 2012, 82, 257-275. | 5.4 | 506 |
| 27 | TESTING THE SPECIES TRAITSâ€“ENVIRONMENT RELATIONSHIPS: THE FOURTHâ€CORNER PROBLEM REVISITED. Ecology, 2008, 89, 3400-3412. | 3.2 | 495 |
| 28 | Testing the significance of canonical axes in redundancy analysis. Methods in Ecology and Evolution, 2011, 2, 269-277. | 5.2 | 459 |
| 29 | Numerical Ecology with R. Use R!, 2018, , . | 0.2 | 439 |
| 30 | A Statistical Test for Hostâ€“Parasite Coevolution. Systematic Biology, 2002, 51, 217-234. | 5.6 | 427 |
| 31 | Studying beta diversity: ecological variation partitioning by multiple regression and canonical analysis. Journal of Plant Ecology, 2008, 1, 3-8. | 2.3 | 405 |
| 32 | Estimating and controlling for spatial structure in the study of ecological communities. Global Ecology and Biogeography, 2010, 19, 174-184. | 5.8 | 370 |
| 33 | Species associations: the Kendall coefficient of concordance revisited. Journal of Agricultural, Biological, and Environmental Statistics, 2005, 10, 226-245. | 1.4 | 357 |
| 34 | RELATING BEHAVIOR TO HABITAT: SOLUTIONS TO THEFOURTH-CORNER PROBLEM. Ecology, 1997, 78, 547-562. | 3.2 | 346 |
| 35 | An empirical comparison of permutation methods for tests of partial regression coefficients in a linear model. Journal of Statistical Computation and Simulation, 1999, 62, 271-303. | 1.2 | 340 |
| 36 | Untangling Multiple Factors in Spatial Distributions: Lilies, Gophers, and Rocks. Ecology, 1996, 77, 1698-1715. | 3.2 | 337 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | MODELING BRAIN EVOLUTION FROM BEHAVIOR: A PERMUTATIONAL REGRESSION APPROACH. Evolution; International Journal of Organic Evolution, 1994, 48, 1487-1499. | 2.3 | 309 |
| 38 | SPECIES DIVERSITY PATTERNS DERIVED FROM SPECIESâ€“AREA MODELS. Ecology, 2002, 83, 1185-1198. | 3.2 | 296 |
| 39 | Environmental control and spatial structure in ecological communities: an example using oribatid mites (Acari, Oribatei). Environmental and Ecological Statistics, 1994, 1, 37-61. | 3.5 | 279 |
| 40 | Should the Mantel test be used in spatial analysis?. Methods in Ecology and Evolution, 2015, 6, 1239-1247. | 5.2 | 276 |
| 41 | Spatial autocorrelation and sampling design in plant ecology. Plant Ecology, 1989, 83, 209-222. | 1.2 | 272 |
| 42 | Compensatory dynamics are rare in natural ecological communities. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3273-3277. | 7.1 | 264 |
| 43 | Conceptual and mathematical relationships among methods for spatial analysis. Ecography, 2002, 25, 558-577. | 4.5 | 262 |
| 44 | Modelling directional spatial processes in ecological data. Ecological Modelling, 2008, 215, 325-336. | 2.5 | 261 |
| 45 | Putting the landscape into the genomics of trees: approaches for understanding local adaptation and population responses to changing climate. Tree Genetics and Genomes, 2013, 9, 901-911. | 1.6 | 261 |
| 46 | Distribution patterns of tree species in a Malaysian tropical rain forest. Journal of Vegetation Science, 1997, 8, 105-114. | 2.2 | 243 |
| 47 | QUANTIFYING PHYLOGENETICALLY STRUCTURED ENVIRONMENTAL VARIATION. Evolution; International Journal of Organic Evolution, 2003, 57, 2647-2652. | 2.3 | 236 |
| 48 | Comparison of permutation methods for the partial correlation and partial mantel tests. Journal of Statistical Computation and Simulation, 2000, 67, 37-73. | 1.2 | 231 |
| 49 | Barriers to forest regeneration of deforested and abandoned land in Panama. Journal of Applied Ecology, 2005, 42, 1165-1174. | 4.0 | 225 |
| 50 | On Species-Area Relations. American Naturalist, 1996, 148, 719-737. | 2.1 | 224 |
| 51 | Using species combinations in indicator value analyses. Methods in Ecology and Evolution, 2012, 3, 973-982. | 5.2 | 224 |
| 52 | Spatial autocorrelation and sampling design in plant ecology. , 1990, , 209-222. | | 211 |
| 53 | Modeling Brain Evolution from Behavior: A Permutational Regression Approach. Evolution; International Journal of Organic Evolution, 1994, 48, 1487. | 2.3 | 210 |
| 54 | Statistical methods for temporal and spaceâ€“time analysis of community composition data <sup />. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132728. | 2.6 | 197 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Common factors drive adaptive genetic variation at different spatial scales in Arabis alpina. Molecular Ecology, 2010, 19, 3824-3835. | 3.9 | 188 |
| 56 | Explaining variation in tropical plant community composition: influence of environmental and spatial data quality. Oecologia, 2008, 155, 593-604. | 2.0 | 178 |
| 57 | Scale dependency of processes structuring metacommunities of cladocerans in temporary pools of High-Andes wetlands. Ecography, 2011, 34, 296-305. | 4.5 | 174 |
| 58 | RESPONSES OF 20 NATIVE TREE SPECIES TO REFORESTATION STRATEGIES FOR ABANDONED FARMLAND IN PANAMA. , 2002, 12, 1626-1641. | | 170 |
| 59 | Aquatic heterotrophic bacteria: Modeling in the presence of spatial autocorrelation. Limnology and Oceanography, 1988, 33, 1055-1067. | 3.1 | 167 |
| 60 | Is the Mantel correlogram powerful enough to be useful in ecological analysis? A simulation study. Ecology, 2012, 93, 1473-1481. | 3.2 | 161 |
| 61 | Broadâ€scale adaptive genetic variation in alpine plants is driven by temperature and precipitation. Molecular Ecology, 2012, 21, 3729-3738. | 3.9 | 161 |
| 62 | Succession of Species within a Community: Chronological Clustering, with Applications to Marine and Freshwater Zooplankton. American Naturalist, 1985, 125, 257-288. | 2.1 | 157 |
| 63 | Utility of computer simulations in landscape genetics. Molecular Ecology, 2010, 19, 3549-3564. | 3.9 | 155 |
| 64 | Spatial and environmental components of freshwater zooplankton structure. Ecoscience, 1995, 2, 1-19. | 1.4 | 139 |
| 65 | Biogeographic relationships among deep-sea hydrothermal vent faunas at global scale. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1371-1378. | 1.4 | 137 |
| 66 | A temporal betaâ€diversity index to identify sites that have changed in exceptional ways in spaceâ€“time surveys. Ecology and Evolution, 2019, 9, 3500-3514. | 1.9 | 137 |
| 67 | Spatial Heterogeneity against Heteroscedasticity: An Ecological Paradigm versus a Statistical Concept. Oikos, 1993, 66, 152. | 2.7 | 136 |
| 68 | Assessing the scale-specific importance of niches and other spatial processes on beta diversity: a case study from a temperate forest. Oecologia, 2009, 159, 377-388. | 2.0 | 136 |
| 69 | The variation of tree beta diversity across a global network of forest plots. Global Ecology and Biogeography, 2012, 21, 1191-1202. | 5.8 | 135 |
| 70 | Study of spatial components of forest cover using partial Mantel tests and path analysis. Journal of Vegetation Science, 1992, 3, 69-78. | 2.2 | 133 |
| 71 | Physical and chemical factors influencing species distributions on hydrothermal sulfide edifices of the Juan de Fuca Ridge, northeast Pacific. Marine Ecology - Progress Series, 1999, 190, 89-112. | 1.9 | 127 |
| 72 | Development and validation of numerical habitat models for juveniles of Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 1.4 | 126 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Approximate analysis of variance of spatially autocorrelated regional data. Journal of Classification, 1990, 7, 53-75. | 2.2 | 120 |
| 74 | Potential changes in forest composition could reduce impacts of climate change on boreal wildfires. Ecological Applications, 2013, 23, 21-35. | 3.8 | 117 |
| 75 | The Mantel Test versus Pearson's Correlation Analysis: Assessment of the Differences for Biological and Environmental Studies. Journal of Agricultural, Biological, and Environmental Statistics, 2000, 5, 131. | 1.4 | 116 |
| 76 | Coevolution between Lamellodiscus (Monogenea: Diplectanidae) and Sparidae (Teleostei): The Study Of a Complex Host-Parasite System. Evolution; International Journal of Organic Evolution, 2002, 56, 2459-2471. | 2.3 | 116 |
| 77 | NONLINEAR REDUNDANCY ANALYSIS AND CANONICAL CORRESPONDENCE ANALYSIS BASED ON POLYNOMIAL REGRESSION. Ecology, 2002, 83, 1146-1161. | 3.2 | 114 |
| 78 | Modelling the effect of directional spatial ecological processes at different scales. Oecologia, 2011, 166, 357-368. | 2.0 | 114 |
| 79 | From Classical to Canonical Ordination. Developments in Paleoenvironmental Research, 2012, , 201-248. | 8.0 | 112 |
| 80 | Spatial structure of bivalves in a sandflat:. Journal of Experimental Marine Biology and Ecology, 1997, 216, 99-128. | 1.5 | 111 |
| 81 | Behavioural response of sicklefin lemon sharks Negaprion acutidens to underwater feeding for ecotourism purposes. Marine Ecology - Progress Series, 2010, 414, 257-266. | 1.9 | 110 |
| 82 | Spider, bee, and bird communities in cities are shaped by environmental control and high stochasticity. Ecology, 2010, 91, 3343-3353. | 3.2 | 109 |
| 83 | Approach for Describing Statistical Properties of Flood Hydrograph. Journal of Hydrologic Engineering - ASCE, 2002, 7, 147-153. | 1.9 | 108 |
| 84 | Organochlorine pollution in tropical rivers (Guadeloupe): Role of ecological factors in food web bioaccumulation. Environmental Pollution, 2011, 159, 1692-1701. | 7.5 | 108 |
| 85 | Postglacial Dispersal of Freshwater Fishes in the QuÃ©bec Peninsula. Canadian Journal of Fisheries and Aquatic Sciences, 1984, 41, 1781-1802. | 1.4 | 105 |
| 86 | Scaling-up from experiments to complex ecological systems: Where to next?. Journal of Experimental Marine Biology and Ecology, 1997, 216, 243-254. | 1.5 | 100 |
| 87 | EFFECTS OF SPATIAL STRUCTURES ON THE RESULTS OF FIELD EXPERIMENTS. Ecology, 2004, 85, 3202-3214. | 3.2 | 100 |
| 88 | FACTORS AFFECTING COMMUNITY COMPOSITION OF FOREST REGENERATION IN DEFORESTED, ABANDONED LAND IN PANAMA. Ecology, 2004, 85, 3313-3326. | 3.2 | 99 |
| 89 | Title is missing!. , 1998, 13, 15-25. | | 98 |
| 90 | Evolution and determinants of host specificity in the genus Lamellodiscus (Monogenea). Biological Journal of the Linnean Society, 2002, 77, 431-443. | 1.6 | 98 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Nonlinear foraging response of a large marine predator to benthic prey: eagle ray pits and bivalves in a New Zealand sandflat. Journal of Experimental Marine Biology and Ecology, 1997, 216, 191-210. | 1.5 | 94 |
| 92 | ASSESSING CONGRUENCEAMONG DISTANCE MATRICES: SINGLE-MALT SCOTCH WHISKIES REVISITED. Australian and New Zealand Journal of Statistics, 2004, 46, 615-629. | 0.9 | 93 |
| 93 | The performance of the Congruence Among Distance Matrices (CADM) test in phylogenetic analysis. BMC Evolutionary Biology, 2011, 11, 64. | 3.2 | 93 |
| 94 | Variation partitioning involving orthogonal spatial eigenfunction submodels. Ecology, 2012, 93, 1234-1240. | 3.2 | 92 |
| 95 | THE ECOLOGICAL IMPLICATIONS OF GROWTH FORMS IN EPIBENTHIC DIATOMS. Journal of Phycology, 1987, 23, 434-441. | 2.3 | 91 |
| 96 | Phylogenetic eigenvector maps: a framework to model and predict species traits. Methods in Ecology and Evolution, 2013, 4, 1120-1131. | 5.2 | 91 |
| 97 | Mapping, Estimating Biomass, and Optimizing Sampling Programs for Spatially Autocorrelated Data: Case Study of the Northern Shrimp (Pandalus borealis). Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 32-45. | 1.4 | 90 |
| 98 | Spatial pattern of diversity in a tropical rain forest in Malaysia. Journal of Biogeography, 1996, 23, 57-74. | 3.0 | 89 |
| 99 | Matching the outcome of small-scale density manipulation experiments with larger scale patterns. Journal of Experimental Marine Biology and Ecology, 1997, 216, 153-169. | 1.5 | 89 |
| 100 | Reconstruction of Biogeographic and Evolutionary Networks Using Reticulograms. Systematic Biology, 2002, 51, 199-216. | 5.6 | 86 |
| 101 | Optimal Variable Weighting for Ultrametric and Additive Trees and K-means Partitioning: Methods and Software. Journal of Classification, 2001, 18, 245-271. | 2.2 | 85 |
| 102 | Community surveys through space and time: testing the spaceâ€“time interaction in the absence of replication. Ecology, 2010, 91, 262-272. | 3.2 | 84 |
| 103 | Phylogenetic, functional, and structural components of variation in bone growth rate of amniotes. Evolution & Development, 2008, 10, 217-227. | 2.0 | 83 |
| 104 | ANALYZING OR EXPLAINING BETA DIVERSITY? COMMENT. Ecology, 2008, 89, 3238-3244. | 3.2 | 81 |
| 105 | Quantitative Methods and Biogeographic Analysis. , 1990, , 9-34. | | 79 |
| 106 | Identifying relationships between adult and juvenile bivalves at different spatial scales. Journal of Experimental Marine Biology and Ecology, 1997, 216, 77-98. | 1.5 | 76 |
| 107 | Biodiversity patterns, environmental drivers and indicator species on a high-temperature hydrothermal edifice, Mid-Atlantic Ridge. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 121, 177-192. | 1.4 | 76 |
| 108 | The Willow Microbiome Is Influenced by Soil Petroleum-Hydrocarbon Concentration with Plant Compartment-Specific Effects. Frontiers in Microbiology, 2016, 7, 1363. | 3.5 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Trajectory analysis in community ecology. Ecological Monographs, 2019, 89, e01350. | 5.4 | 74 |
| 110 | Dietary Variation in a Freshwater Fish Species: Relative Contributions of Biotic Interactions, Abiotic Factors, and Spatial Structure. Canadian Journal of Fisheries and Aquatic Sciences, 1994, 51, 2856-2865. | 1.4 | 73 |
| 111 | Flow alterations by dams shaped fish assemblage dynamics in the complex Mekong-3S river system. Ecological Indicators, 2018, 88, 103-114. | 6.3 | 73 |
| 112 | Body size evolution of oxyurid (Nematoda) parasites: the role of hosts. Oecologia, 1996, 107, 274-282. | 2.0 | 72 |
| 113 | MAPPING OF MARINE SOFT-SEDIMENT COMMUNITIES: INTEGRATED SAMPLING FOR ECOLOGICAL INTERPRETATION. , 2004, 14, 1203-1216. | | 70 |
| 114 | Title is missing!. Environmental and Ecological Statistics, 1998, 5, 1-27. | 3.5 | 68 |
| 115 | From a Phylogenetic Tree to a Reticulated Network. Journal of Computational Biology, 2004, 11, 195-212. | 1.6 | 68 |
| 116 | Business partner or simple catch? The economic value of the sicklefin lemon shark in French Polynesia. Marine and Freshwater Research, 2011, 62, 764. | 1.3 | 67 |
| 117 | Boxâ€“Coxâ€chord transformations for community composition data prior to beta diversity analysis. Ecography, 2018, 41, 1820-1824. | 4.5 | 67 |
| 118 | Disturbances amplify tree community responses to climate change in the temperateâ€“boreal ecotone. Global Ecology and Biogeography, 2019, 28, 1668-1681. | 5.8 | 67 |
| 119 | Variance and spatial scales in a tropical rain forest: changing the size of sampling units. Plant Ecology, 1997, 130, 89-98. | 1.6 | 64 |
| 120 | Role of habitat and landscape in structuring small mammal assemblages in hedgerow networks of contrasted farming landscapes in Brittany, France. Landscape Ecology, 2007, 22, 1241-1253. | 4.2 | 64 |
| 121 | Analyzing multivariate flow cytometric data in aquatic sciences. Cytometry, 1992, 13, 291-298. | 1.8 | 63 |
| 122 | A framework for estimating niche metrics using the resemblance between qualitative resources. Oikos, 2011, 120, 1341-1350. | 2.7 | 63 |
| 123 | Largeâ€scale geographic patterns of diversity and community structure of pelagic crustacean zooplankton in <scp>C</scp>anadian lakes. Global Ecology and Biogeography, 2013, 22, 784-795. | 5.8 | 63 |
| 124 | Hosts, parasites and their interactions respond to different climatic variables. Global Ecology and Biogeography, 2017, 26, 942-951. | 5.8 | 62 |
| 125 | Partitioning plant spectral diversity into alpha and beta components. Ecology Letters, 2020, 23, 370-380. | 6.4 | 62 |
| 126 | The role of environmental and spatial processes in structuring native and non-native fish communities across thousands of lakes. Ecography, 2011, 34, 762-771. | 4.5 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Multiscale spatial distribution of a littoral fish community in relation to environmental variables. Limnology and Oceanography, 2005, 50, 465-479. | 3.1 | 59 |
| 128 | Fireâ€induced taxonomic and functional changes in saproxylic beetle communities in fire sensitive regions. Ecography, 2010, 33, 760-771. | 4.5 | 59 |
| 129 | Predicting microcystin concentrations in lakes and reservoirs at a continental scale: A new framework for modelling an important health risk factor. Global Ecology and Biogeography, 2017, 26, 625-637. | 5.8 | 59 |
| 130 | Genetics and Language in European Populations. American Naturalist, 1990, 135, 157-175. | 2.1 | 58 |
| 131 | Rapid Communication / Communication RapideAcoustic seabed classification: improved statistical method. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 1085-1089. | 1.4 | 58 |
| 132 | Evaluation of simple statistical criteria to qualify a simulation. Ecological Modelling, 1996, 88, 9-18. | 2.5 | 56 |
| 133 | Concomitant impacts of climate change, fragmentation and nonâ€native species have led to reorganization of fish communities since the 1980s. Global Ecology and Biogeography, 2018, 27, 213-222. | 5.8 | 56 |
| 134 | Diversity pattern and spatial scale: a study of a tropical rain forest of Malaysia. Environmental and Ecological Statistics, 1994, 1, 265-286. | 3.5 | 55 |
| 135 | Comparison of two plant functional approaches to evaluate natural restoration along an oldâ€field â€“ deciduous forest chronosequence. Journal of Vegetation Science, 2009, 20, 185-198. | 2.2 | 55 |
| 136 | Rhythms and Community Dynamics of a Hydrothermal Tubeworm Assemblage at Main Endeavour Field â€“ A Multidisciplinary Deep-Sea Observatory Approach. PLoS ONE, 2014, 9, e96924. | 2.5 | 55 |
| 137 | A functional evenness index for microbial ecology. Microbial Ecology, 1981, 7, 283-296. | 2.8 | 54 |
| 138 | Medium scale approach (MSA) for improved assessment of coral reef fish habitat. Journal of Experimental Marine Biology and Ecology, 2006, 333, 219-230. | 1.5 | 54 |
| 139 | Using phylogenetic information to predict species tolerances to toxic chemicals. , 2011, 21, 3178-3190. | | 54 |
| 140 | Diversity and composition of ectomycorrhizal community on seedling roots: the role of host preference and soil origin. Mycorrhiza, 2011, 21, 669-680. | 2.8 | 54 |
| 141 | Understanding the Spatio-Temporal Response of Coral Reef Fish Communities to Natural Disturbances: Insights from Beta-Diversity Decomposition. PLoS ONE, 2015, 10, e0138696. | 2.5 | 54 |
| 142 | Integrating heterogeneity across spatial scales: interactions between Atrina zelandica and benthic macrofauna. Marine Ecology - Progress Series, 2002, 239, 115-128. | 1.9 | 52 |
| 143 | Dissimilarity measurements and the size structure of ecological communities. Methods in Ecology and Evolution, 2013, 4, 1167-1177. | 5.2 | 50 |
| 144 | An Integrated Study of the Factors Influencing the Choice of the Settling Site of Balanus crenatus Cyprid Larvae. Canadian Journal of Fisheries and Aquatic Sciences, 1983, 40, 1186-1194. | 1.4 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Genetic differences among language families in Europe. American Journal of Physical Anthropology, 1989, 79, 489-502. | 2.1 | 49 |
| 146 | The sandflat habitat: scaling from experiments to conclusions. Journal of Experimental Marine Biology and Ecology, 1997, 216, 1-9. | 1.5 | 49 |
| 147 | Global depression in gene expression as a response to rapid thermal changes in vent mussels. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 3071-3079. | 2.6 | 49 |
| 148 | Large-scale spatial heterogeneity of macrozooplankton in Lake of Geneva. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 1437-1451. | 1.4 | 48 |
| 149 | Canonical analysis. Developments in Environmental Modelling, 2012, 24, 625-710. | 0.3 | 48 |
| 150 | A Classification of Pure Malt Scotch Whiskies. Journal of the Royal Statistical Society Series C: Applied Statistics, 1994, 43, 237. | 1.0 | 47 |
| 151 | The multivariate (co)variogram as a spatial weighting function in classification methods. Mathematical Geosciences, 1992, 24, 463-478. | 0.9 | 46 |
| 152 | Influence of edaphic factors on the spatial structure of inland halophytic communities: a case study in China. Journal of Vegetation Science, 1998, 9, 797-804. | 2.2 | 46 |
| 153 | Scaling up beta diversity on Caribbean coral reefs. Journal of Experimental Marine Biology and Ecology, 2008, 366, 28-36. | 1.5 | 46 |
| 154 | Relationships between species feeding traits and environmental conditions in fish communities: a three-matrix approach. , 2011, 21, 363-377. | | 46 |
| 155 | Microbialite genetic diversity and composition relate to environmental variables. FEMS Microbiology Ecology, 2012, 82, 724-735. | 2.7 | 46 |
| 156 | Modeling of the evolution of bacterial densities in an eutrophic ecosystem (sewage lagoons). Microbial Ecology, 1986, 12, 355-379. | 2.8 | 45 |
| 157 | Moderate disturbances accelerate forest transition dynamics under climate change in the temperateâ€“boreal ecotone of eastern North America. Global Change Biology, 2020, 26, 4418-4435. | 9.5 | 44 |
| 158 | Horizontal gene transfer and recombination analysis of SARS-CoV-2 genes helps discover its close relatives and shed light on its origin. Bmc Ecology and Evolution, 2021, 21, 5. | 1.6 | 44 |
| 159 | Design for Simultaneous Sampling of Ecological Variables: From Concepts to Numerical Solutions. Oikos, 1989, 55, 30. | 2.7 | 43 |
| 160 | Phylogenetic Network Construction Approaches. Applied Mycology and Biotechnology, 2006, 6, 61-97. | 0.3 | 43 |
| 161 | Constrained Clustering. , 1987, , 289-307. | | 43 |
| 162 | Beals smoothing revisited. Oecologia, 2008, 156, 657-669. | 2.0 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Spatial patterns of Yucatan reef fish communities: Testing models using a multi-scale survey design. Journal of Experimental Marine Biology and Ecology, 2005, 324, 157-169. | 1.5 | 41 |
| 164 | Relating Behavior to Habitat: Solutions to the Fourth-corner Problem. Ecology, 1997, 78, 547. | 3.2 | 40 |
| 165 | Diatom diversity patterns over the past c. 150 years across the conterminous United States of America: Identifying mechanisms behind beta diversity. Global Ecology and Biogeography, 2017, 26, 1303-1315. | 5.8 | 40 |
| 166 | Comparison tests for dendrograms: A comparative evaluation. Journal of Classification, 1995, 12, 265-282. | 2.2 | 39 |
| 167 | Canonical Ordination. , 2011, , 153-225. | | 39 |
| 168 | Patterns of sediment reworking and transport over small spatial scales on an intertidal sandflat, Manukau Harbour, New Zealand. Journal of Experimental Marine Biology and Ecology, 1997, 216, 33-50. | 1.5 | 38 |
| 169 | Title is missing!. Biogeochemistry, 1998, 40, 189-201. | 3.5 | 38 |
| 170 | CHARACTERS AND CLUSTERING IN TAXONOMY: A SYNTHESIS OF TWO TAXIMETRIC PROCEDURES. Taxon, 1972, 21, 567-606. | 0.7 | 36 |
| 171 | Resource partitioning in a grazer guild feeding on a multilayer diatom mat. Journal of the North American Benthological Society, 2006, 25, 800-810. | 3.1 | 36 |
| 172 | Geographic Structure and Potential Ecological Factors in Belgium. Journal of Biogeography, 1991, 18, 257. | 3.0 | 35 |
| 173 | Biogeographic patterns of coastal fish assemblages in the West Indies. Journal of Experimental Marine Biology and Ecology, 2005, 315, 31-47. | 1.5 | 35 |
| 174 | Disentangling invasion processes in a dynamic shippingâ€“boating network. Molecular Ecology, 2012, 21, 4227-4241. | 3.9 | 35 |
| 175 | Traitâ€based approach to monitoring marine benthic data along 500 km of coastline. Diversity and Distributions, 2019, 25, 1879-1896. | 4.1 | 35 |
| 176 | Essai Ä Application de Ä¾Analyse PhÃ©nÃ©tique Ã la Classification du Phylum des Ciliophora. Journal of Protozoology, 1984, 31, 496-507. | 0.8 | 34 |
| 177 | Denitrification and methane production in sediment of Hamilton Harbour (Canada). Microbial Ecology, 1994, 27, 123-141. | 2.8 | 34 |
| 178 | Spatial relationships between soil moisture patterns and topographic variables at multiple scales in a humid temperate forested catchment. Water Resources Research, 2010, 46, . | 4.2 | 34 |
| 179 | Genetic structure of the whiteâ€footed mouse in the context of the emergence of Lyme disease in southern QuÃ©bec. Ecology and Evolution, 2013, 3, 2075-2088. | 1.9 | 34 |
| 180 | A Statistical Framework to Test the Consensus of Two Nested Classifications. Systematic Zoology, 1990, 39, 1. | 1.6 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Spatio-temporal variability in fish recruitment to a coral reef (Moorea, French Polynesia). Coral Reefs, 1993, 12, 105-113. | 2.2 | 33 |
| 182 | Spatial and temporal analysis of beta diversity in the Barro Colorado Island forest dynamics plot, Panama. Forest Ecosystems, 2019, 6, . | 3.1 | 33 |
| 183 | Does diversity beget diversity in microbiomes?. ELife, 2020, 9, . | 6.0 | 33 |
| 184 | Ordination in reduced space. Developments in Environmental Modelling, 2012, , 425-520. | 0.3 | 32 |
| 185 | Distance-Based Redundancy Analysis: Testing Multispecies Responses in Multifactorial Ecological Experiments. Ecological Monographs, 1999, 69, 1. | 5.4 | 32 |
| 186 | La rÃ©partition horizontale et verticale des larves de homard (Homarus americanus) autour des Ã®les de la Madeleine, golfe du Saint-Laurent. Canadian Journal of Fisheries and Aquatic Sciences, 1986, 43, 2164-2176. | 1.4 | 31 |
| 187 | Macrofaunal density and biomass in the Campeche Canyon, Southwestern Gulf of Mexico. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2679-2685. | 1.4 | 31 |
| 188 | Clustering and Partitioning. Developments in Paleoenvironmental Research, 2012, , 167-200. | 8.0 | 31 |
| 189 | Consensus RDA across dissimilarity coefficients for canonical ordination of community composition data. Ecological Monographs, 2014, 84, 491-511. | 5.4 | 31 |
| 190 | Dynamics of pollution-indicator and heterotrophic bacteria in sewage treatment lagoons. Applied and Environmental Microbiology, 1984, 48, 586-593. | 3.1 | 31 |
| 191 | Numerical Ecology. , 2019, , 487-493. | | 30 |
| 192 | Temperature drives local contributions to beta diversity in mountain streams: Stochastic and deterministic processes. Global Ecology and Biogeography, 2020, 29, 420-432. | 5.8 | 30 |
| 193 | The generation of random ultrametric matrices representing dendrograms. Journal of Classification, 1991, 8, 177-200. | 2.2 | 29 |
| 194 | Inferring Processes from Spatial Patterns: The Role of Directional and Nonâ€“Directional Forces in Shaping Fish Larvae Distribution in a Freshwater Lake System. PLoS ONE, 2012, 7, e50239. | 2.5 | 29 |
| 195 | High-resolution dynamics of a deep-sea hydrothermal mussel assemblage monitored by the EMSO-AÃ§ores MoMAR observatory. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 90, 62-75. | 1.4 | 29 |
| 196 | Astronomical and atmospheric impacts on deep-sea hydrothermal vent invertebrates. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162123. | 2.6 | 29 |
| 197 | The Contingency Periodogram: A Method of Identifying Rhythms in Series of Nonmetric Ecological Data. Journal of Ecology, 1981, 69, 965. | 4.0 | 28 |
| 198 | Complex ecological data sets. Developments in Environmental Modelling, 2012, , 1-57. | 0.3 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Using phylogenetic information and chemical properties to predict species tolerances to pesticides. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133239. | 2.6 | 28 |
| 200 | Living in a hot redox soup: antioxidant defences of the hydrothermal worm Alvinella pompejana. Aquatic Biology, 2013, 18, 217-228. | 1.4 | 28 |
| 201 | Exploring Periphyton Unpredictability. Journal of the North American Benthological Society, 1993, 12, 418-430. | 3.1 | 27 |
| 202 | Development and validation of numerical habitat models for juveniles of Atlantic salmon (<i>Salmo salar</i>). Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 2065-2075. | 1.4 | 27 |
| 203 | COEVOLUTION BETWEEN LAMELLODISCUS (MONOGENEA: DIPLECTANIDAE) AND SPARIDAE (TELEOSTEI): THE STUDY OF A COMPLEX HOST-PARASITE SYSTEM. Evolution; International Journal of Organic Evolution, 2002, 56, 2459. | 2.3 | 26 |
| 204 | Microheterogeneity and Coevolution: An Examination of rDNA Sequence Characteristics in Neoparamoeba pemaquidensis and Its Prokinetoplastid Endosymbiont. Journal of Eukaryotic Microbiology, 2007, 54, 418-426. | 1.7 | 26 |
| 205 | Shifts between biotic and physical driving forces of species organization under natural disturbance regimes. Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 1282-1293. | 1.4 | 26 |
| 206 | Multiscale codependence analysis: an integrated approach to analyze relationships across scales. Ecology, 2010, 91, 2952-2964. | 3.2 | 26 |
| 207 | Faunal changes and geographic crypticism indicate the occurrence of a biogeographic transition zone along the southern East Pacific Rise. Journal of Biogeography, 2011, 38, 575-594. | 3.0 | 26 |
| 208 | N<sub>2 fixation rates and associated diversity (nifH) of microbialite and mat-forming consortia from different aquatic environments in Mexico. Aquatic Microbial Ecology, 2012, 67, 15-24. | 1.8 | 26 |
| 209 | Biological and environmental rhythms in (dark) deep-sea hydrothermal ecosystems. Biogeosciences, 2017, 14, 2955-2977. | 3.3 | 26 |
| 210 | Negative relationships between species richness and temporal variability are common but weak in natural systems. Ecology, 2018, 99, 2592-2604. | 3.2 | 26 |
| 211 | Spatial structure and ecological variation of meroplankton on the French-Belgian coast of the North Sea. Marine Ecology - Progress Series, 1995, 128, 43-50. | 1.9 | 26 |
| 212 | Aggregation of Sampling Units: An Analytical Solution to Predict Variance. Geographical Analysis, 2010, 29, 258-266. | 3.5 | 25 |
| 213 | What do beta diversity components reveal from presence-absence community data? Let us connect every indicator to an indicandum!. Ecological Indicators, 2020, 117, 106540. | 6.3 | 25 |
| 214 | Using the landscape morphometric context to resolve spatial patterns of submerged macrophyte communities in a fluvial lake. Landscape Ecology, 2008, 23, 91-105. | 4.2 | 24 |
| 215 | The bearing of Phoxinus (Cyprinidae) hybridity on the classification of its North American species. Canadian Journal of Zoology, 1970, 48, 1167-1177. | 1.0 | 23 |
| 216 | Multicharacter Chronological Clustering in a Sequence of Fossil Sticklebacks. Systematic Zoology, 1987, 36, 52. | 1.6 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Power law relationships among hierarchical taxonomic categories in algae reveal a new paradox of the plankton. Global Ecology and Biogeography, 2006, 15, 528-535. | 5.8 | 23 |
| 218 | Ecological resemblance. Developments in Environmental Modelling, 2012, 24, 265-335. | 0.3 | 23 |
| 219 | Cascade multivariate regression tree: a novel approach for modelling nested explanatory sets. Methods in Ecology and Evolution, 2012, 3, 234-244. | 5.2 | 23 |
| 220 | Multivariate Approach to Study Species Assemblages at Large Spatiotemporal Scales: The Community Structure of the Epibenthic Fauna of the Estuary and Gulf of St. Lawrence. Canadian Journal of Fisheries and Aquatic Sciences, 1990, 47, 1364-1377. | 1.4 | 22 |
| 221 | Epibenthic megacrustaceans from the continental margin, slope and abyssal plain of the Southwestern Gulf of Mexico: Factors responsible for variability in species composition and diversity. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2667-2678. | 1.4 | 22 |
| 222 | Shifting dominance among Scarid species on reefs representing a gradient of fishing pressure. Aquatic Living Resources, 2008, 21, 339-348. | 1.2 | 22 |
| 223 | Indicator Species: Computation. , 2013, , 264-268. | | 22 |
| 224 | Thirty-year recovery of mollusc communities after nuclear experimentations on Fangataufa atoll (Tuamotu, French Polynesia). Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150750. | 2.6 | 22 |
| 225 | The Effects of Regional Hydrologic Alteration on Fish Community Structure in Regulated Rivers. River Research and Applications, 2017, 33, 249-257. | 1.7 | 22 |
| 226 | Uniqueness of sampling site contributions to the total variance of macroinvertebrate communities in the Lower Mekong Basin. Ecological Indicators, 2018, 84, 425-432. | 6.3 | 22 |
| 227 | Summer assessment of zooplankton biodiversity and environmental control in urban waterbodies on the Island of MontrÃ©al. Ecosphere, 2018, 9, e02277. | 2.2 | 22 |
| 228 | Lack of robustness in two tests of normality against autocorrelation in sample data. Journal of Statistical Computation and Simulation, 1992, 42, 79-91. | 1.2 | 21 |
| 229 | Are algal communities driven toward maximum biomass?. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2667-2674. | 2.6 | 21 |
| 230 | Unconstrained Ordination. , 2011, , 115-151. | | 21 |
| 231 | Constancy despite variability: Local and regional macrofaunal diversity in intertidal seagrass beds. Journal of Sea Research, 2017, 130, 107-122. | 1.6 | 21 |
| 232 | Canonical Ordination. Use R!, 2018, , 203-297. | 0.2 | 21 |
| 233 | Species Diversity Patterns Derived from Species-Area Models. Ecology, 2002, 83, 1185. | 3.2 | 20 |
| 234 | Comment on "Acoustic seabed classification: improved statistical method". Canadian Journal of Fisheries and Aquatic Sciences, 2003, 60, 1299-1300. | 1.4 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Oxidative stress modulates the expression of genes involved in cell survival in Î”F508 cystic fibrosis airway epithelial cells. Physiological Genomics, 2014, 46, 634-646. | 2.3 | 20 |
| 236 | Spatial Analysis of Ecological Data. Use R!, 2018, , 299-367. | 0.2 | 20 |
| 237 | Modelling habitat associations of 14 species of holothurians from an unfished coral atoll: implications for fisheries management. Aquatic Biology, 2011, 14, 57-66. | 1.4 | 20 |
| 238 | Reefscape proxies for the conservation of Caribbean coral reef biodiversity. Ciencias Marinas, 2011, 37, 87-96. | 0.4 | 20 |
| 239 | Reticulate Evolution:From Bacteria to Philosopher. Journal of Classification, 2000, 17, 153-157. | 2.2 | 19 |
| 240 | Title is missing!. Biodiversity and Conservation, 2002, 11, 637-667. | 2.6 | 19 |
| 241 | Modelling phylogenetic relationships using reticulated networks. Zoologica Scripta, 2004, 33, 89-96. | 1.7 | 19 |
| 242 | ANALYZING OR EXPLAINING BETA DIVERSITY? COMMENT. Ecology, 2008, 89, 3227-3232. | 3.2 | 19 |
| 243 | Effects of spatial scale and choice of statistical model (linear versus tree-based) on determining speciesâ€“habitat relationships. Canadian Journal of Fisheries and Aquatic Sciences, 2012, 69, 2095-2111. | 1.4 | 19 |
| 244 | A Comparison of Electrofishing and Visual Surveying Methods for Estimating Fish Community Structure in Temperate Rivers. River Research and Applications, 2015, 31, 1040-1051. | 1.7 | 19 |
| 245 | Damming interacts with the flood pulse to alter zooplankton communities in an Amazonian river. Freshwater Biology, 2019, 64, 1040-1053. | 2.4 | 19 |
| 246 | STUDYING BETA DIVERSITY: ECOLOGICAL VARIATION PARTITIONING BY MULTIPLE REGRESSION AND CANONICAL ANALYSIS. Chinese Journal of Plant Ecology, 2007, 31, 976-981. | 0.6 | 19 |
| 247 | Zooplancton limnÃ©tique de 46 lacs et 17 riviÃ¨res du territoire de la baie de James. Canadian Journal of Zoology, 1979, 57, 1693-1709. | 1.0 | 18 |
| 248 | Statistical Significance of the Matrix Correlation Coefficient for Comparing Independent Phylogenetic Trees. Systematic Biology, 1992, 41, 378. | 5.6 | 18 |
| 249 | Independent contrasts and regression through the origin. Journal of Theoretical Biology, 2009, 259, 727-743. | 1.7 | 18 |
| 250 | The relations between â€˜standardâ€™ fluvial habitat variables and turbulent flow at multiple scales in morphological units of a gravelâ€bed river. River Research and Applications, 2010, 26, 439-455. | 1.7 | 18 |
| 251 | Biodiversity and trophic ecology of hydrothermal vent fauna associated with tubeworm assemblages on the Juan de Fuca Ridge. Biogeosciences, 2018, 15, 2629-2647. | 3.3 | 18 |
| 252 | Numerical Ecology: Developments and Recent Trends. , 1983, , 505-523. | | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Partitioning ordered variables into discrete states for discriminant analysis of ecological classifications. Canadian Journal of Zoology, 1983, 61, 1002-1010. | 1.0 | 17 |
| 254 | Assessing Congruence Among Ultrametric Distance Matrices. Journal of Classification, 2009, 26, 103-117. | 2.2 | 17 |
| 255 | Are the landscapeâ€level drivers of water column and surface sediment diatoms different?. Freshwater Biology, 2015, 60, 267-281. | 2.4 | 17 |
| 256 | Spatial organisation of fish communities in the St. Lawrence River: a test for longitudinal gradients and spatial heterogeneities in a large river system. Hydrobiologia, 2018, 809, 155-173. | 2.0 | 17 |
| 257 | Microgeographic Morphological Differentiation in Muskrats. Journal of Mammalogy, 1996, 77, 684. | 1.3 | 16 |
| 258 | Reply to the comment by Preston and Kirlin on "Acoustic seabed classification: improved statistical method". Canadian Journal of Fisheries and Aquatic Sciences, 2003, 60, 1301-1305. | 1.4 | 16 |
| 259 | Is the sampling strategy interfering with the study of spatial variability of zooplankton communities?. Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 1940-1956. | 1.4 | 15 |
| 260 | Meiofaunal community structure of the deep-sea Gulf of Mexico: Variability due to the sorting methods. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2627-2633. | 1.4 | 15 |
| 261 | Spatial and Temporal Variation in a Caribbean Herbivorous Fish Assemblage. Journal of Coastal Research, 2012, 278, 63-72. | 0.3 | 14 |
| 262 | Interpretation of ecological structures. Developments in Environmental Modelling, 2012, 24, 521-624. | 0.3 | 14 |
| 263 | Reconstructing phosphorus levels using models based on the modern diatom assemblages of 55 lakes in southern Quebec. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 887-914. | 1.4 | 14 |
| 264 | The interaction of phylogeny and community structure: Linking the community composition and trait evolutionÂof clades. Global Ecology and Biogeography, 2019, 28, 1499-1511. | 5.8 | 14 |
| 265 | Dynamics of fecal coliform and culturable heterotroph densities in an eutrophic ecosystem: Stability of models and evolution of these bacterial groups. Microbial Ecology, 1989, 17, 227-235. | 2.8 | 13 |
| 266 | An attempt at reconstructing a phylogenetic tree of the Ciliophora using parsimony methods. European Journal of Protistology, 1994, 30, 1-17. | 1.5 | 13 |
| 267 | Application of Moran Eigenvector Maps (MEM) to irregular sampling designs. Spatial Statistics, 2018, 26, 56-68. | 1.9 | 13 |
| 268 | Improving the Additive Tree Representation of a Dissimilarity Matrix Using Reticulations. Studies in Classification, Data Analysis, and Knowledge Organization, 2000, , 35-40. | 0.2 | 13 |
| 269 | Strategy of eel (Anguilla anguilla L.) exploitation in the Thau lagoon. Estuarine, Coastal and Shelf Science, 1992, 35, 55-73. | 2.1 | 12 |
| 270 | QUANTIFYING PHYLOGENETICALLY STRUCTURED ENVIRONMENTAL VARIATION. Evolution; International Journal of Organic Evolution, 2003, 57, 2647. | 2.3 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | A new costâ€effective approach to survey ecological communities. Oikos, 2016, 125, 975-987. | 2.7 | 12 |
| 272 | Using fish guilds to assess community responses to temperature and flow regimes in unregulated and regulated Canadian rivers. Freshwater Biology, 2016, 61, 1759-1772. | 2.4 | 12 |
| 273 | A novel tool to assess the effect of intraspecific spatial niche variation on species distribution shifts under climate change. Global Ecology and Biogeography, 2020, 29, 590-602. | 5.8 | 12 |
| 274 | Spatial structure and ecological variation of meroplankton on the Belgian-Dutch coast of the North Sea. Marine Ecology - Progress Series, 1995, 128, 51-59. | 1.9 | 12 |
| 275 | Evaluating ecological uniqueness over broad spatial extents using species distribution modelling. Oikos, 2022, 2022, . | 2.7 | 12 |
| 276 | Practical aspects of modelling ecological phenomena using the cusp catastrophe. Ecological Modelling, 1988, 42, 265-287. | 2.5 | 11 |
| 277 | RÃ©partition spatiale des Chaetodontidae dans diffÃ©rents secteurs rÃ©cifaux de lâ€™Ã®le de Moorea, PolynÃ©sie franÃ§aise. Ecoscience, 1995, 2, 129-140. | 1.4 | 11 |
| 278 | NSERC's HydroNet: A National Research Network to Promote Sustainable Hydropower and Healthy Aquatic Ecosystems. Fisheries, 2011, 36, 480-488. | 0.8 | 11 |
| 279 | Matching Behavioral Evolution to Brain Morphology. Brain, Behavior and Evolution, 1995, 45, 110-121. | 1.7 | 10 |
| 280 | Evaluation of a variable angle scanning method to estimate relative abundance and distribution of fish using a single-beam echosounder in shallow lakes. Journal of Fish Biology, 1997, 50, 208-221. | 1.6 | 10 |
| 281 | Estimation of regionalized phenomena by geostatistical methods: lake acidity on the Canadian Shield. Environmental Geology, 2000, 39, 211-220. | 1.2 | 10 |
| 282 | Land cover classification at a regional scale in Iberia: separability in a multi-temporal and multi-spectral data set of satellite images. International Journal of Remote Sensing, 2004, 25, 205-213. | 2.9 | 10 |
| 283 | SONAR BACKSCATTER DIFFERENTIATION OF DOMINANT MACROHABITAT TYPES IN A HYDROTHERMAL VENT FIELD. , 2006, 16, 1421-1435. | | 10 |
| 284 | Toward management guidelines for soybean aphid, Aphis glycines, in Quebec. II. Spatial distribution of aphid populations in commercial soybean fields. Canadian Entomologist, 2008, 140, 219-234. | 0.8 | 10 |
| 285 | Using intraâ€individual variation in shrub architecture to explain population cover. Oikos, 2015, 124, 707-716. | 2.7 | 10 |
| 286 | Environmental factors structuring benthic primary producers at different spatial scales in the St. Lawrence River (Canada). Aquatic Sciences, 2017, 79, 345-356. | 1.5 | 10 |
| 287 | The phyllosphere microbiome of host trees contributes more than leaf phytochemicals to variation in the Agrilus planipennis Fairmaire gut microbiome structure. Scientific Reports, 2021, 11, 15911. | 3.3 | 10 |
| 288 | Unconstrained Ordination. Use R!, 2018, , 151-201. | 0.2 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Facteurs responsables de la distribution des gastÃ©ropodes dulcicoles dans le fleuve Saint-Laurent. Hydrobiologia, 1982, 89, 61-76. | 2.0 | 9 |
| 290 | Reconstructing Biogeographic History Using Phylogenetic-Tree Analysis of Community Structure. Systematic Zoology, 1986, 35, 68. | 1.6 | 9 |
| 291 | Spatial-scale partitioning of in situ turbulent flow data over a pebble cluster in a gravel-bed river. Water Resources Research, 2007, 43, . | 4.2 | 9 |
| 292 | Spatial analysis. Developments in Environmental Modelling, 2012, 24, 785-858. | 0.3 | 9 |
| 293 | Human and natural controls of the variation in aboveground tree biomass in African dry tropical forests. , 2017, 27, 1578-1593. | | 9 |
| 294 | Variation in compositional and structural components of community assemblage and its determinants. Journal of Vegetation Science, 2019, 30, 257-268. | 2.2 | 9 |
| 295 | A MATHEMATICAL MODEL FOR THE ENTITIES SPECIES AND GENUS. Taxon, 1969, 18, 245-252. | 0.7 | 8 |
| 296 | CIRCUMSCRIBING THE CONCEPT OF THE GENUS. Taxon, 1971, 20, 137-139. | 0.7 | 8 |
| 297 | Succession des communautÃ©s de gastÃ©ropodes dans deux milieux diffÃ©rant par leur degrÃ© d'eutrophisation. Canadian Journal of Zoology, 1984, 62, 2317-2327. | 1.0 | 8 |
| 298 | Introduction to the Analysis of Periodic Phenomena. , 1992, , 11-25. | | 8 |
| 299 | Encephalization, Adaptation and Evolution of Chiroptera: A Statistical Analysis with Further Evidence for Bat Monophyly. Brain, Behavior and Evolution, 1999, 54, 119-126. | 1.7 | 8 |
| 300 | Real data are messy. Statistics and Computing, 1993, 3, 197-199. | 1.5 | 7 |
| 301 | A graph-theory method to establish serological relationships within a bacterial taxon, with example from Porphyromonas gingivalis. Journal of Microbiological Methods, 1996, 26, 225-236. | 1.6 | 7 |
| 302 | Science on the edge of spatial scales: a reply to the comments of Williams (2001). Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 2108-2111. | 1.4 | 7 |
| 303 | LAC CROCHE UNDERSTORY VEGETATION DATA SET (1998â€“2006). Ecology, 2007, 88, 3209-3209. | 3.2 | 7 |
| 304 | Weighted bootstrapping: a correction method for assessing the robustness of phylogenetic trees. BMC Evolutionary Biology, 2010, 10, 250. | 3.2 | 7 |
| 305 | Association Measures and Matrices. , 2011, , 31-51. | | 7 |
| 306 | Multiscale analysis. Developments in Environmental Modelling, 2012, 24, 859-906. | 0.3 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Examining shifts in zooplankton community variability following biological invasion. Limnology and Oceanography, 2013, 58, 399-408. | 3.1 | 7 |
| 308 | A spatiallyâ€explicit assessment of the fish population response to flow management in a heterogeneous landscape. Ecosphere, 2016, 7, e01252. | 2.2 | 7 |
| 309 | Bringing multivariate support to multiscale codependence analysis: Assessing the drivers of community structure across spatial scales. Methods in Ecology and Evolution, 2018, 9, 292-304. | 5.2 | 7 |
| 310 | Community structure of Neotropical wetland insects in Northern Venezuela. II. Habitat type and environmental factors app:1. Fundamental and Applied Limnology, 2002, 155, 437-453. | 0.7 | 7 |
| 311 | A field-trip microtechnique for studying fish leukocyte chromosomes. Canadian Journal of Zoology, 1975, 53, 1443-1446. | 1.0 | 6 |
| 312 | Inventaire aÃ©rien de la faune dans le Moyen Nord quÃ©bÃ©cois. Canadian Journal of Zoology, 1978, 56, 451-462. | 1.0 | 6 |
| 313 | Comments on Boyle's Acidity and organic carbon in lake water: variability and estimation of means. Journal of Paleolimnology, 1991, 6, 103-110. | 1.6 | 6 |
| 314 | Multidimensional qualitative data. Developments in Environmental Modelling, 2012, 24, 219-264. | 0.3 | 6 |
| 315 | An Appropriate Space for Clustering Selected Groups of Western North American Salmo. Systematic Zoology, 1976, 25, 193. | 1.6 | 5 |
| 316 | A water quality index for lake beaches. Water Research, 1982, 16, 945-948. | 11.3 | 5 |
| 317 | The utility of covariances: a response to Ranta et al. Oikos, 2008, 117, 1912-1913. | 2.7 | 5 |
| 318 | Water table response to an experimental alley farming trial: dissecting the spatial and temporal structure of the data. Ecological Applications, 2010, 20, 1704-1720. | 3.8 | 5 |
| 319 | Community structure of Neotropical wetland insects in Northern Venezuela. I. Temporal and environmental factors app: 1. Fundamental and Applied Limnology, 2002, 155, 413-436. | 0.7 | 5 |
| 320 | Modelling habitat associations of the common spider conch in theÂCocosÂ(Keeling)ÂIslands. Marine Ecology - Progress Series, 2011, 432, 83-90. | 1.9 | 5 |
| 321 | Reconstructing Biogeographic History Using Phylogenetic-tree Analysis of Community Structure. Systematic Biology, 1986, 35, 68-80. | 5.6 | 4 |
| 322 | AutocorrÃ©lation spatiale et dÃ©placement de la criminalitÃ©. Criminologie, 1992, 25, 139-154. | 0.3 | 4 |
| 323 | Biological Applications of Reticulation Analysis. Journal of Classification, 2000, 17, 191-195. | 2.2 | 4 |
| 324 | Optimization of temporal versus spatial replication in the development of habitat use models to explain among-reach variations of fish density estimates in rivers. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 600-609. | 1.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Phylogenetics to help predict active metabolism. Ecosphere, 2015, 6, 1-11. | 2.2 | 4 |
| 326 | Largeâ€scale multiâ€trophic coâ€response models and environmental control of pelagic food webs in QuÃ©bec lakes. Oikos, 2021, 130, 377-395. | 2.7 | 4 |
| 327 | Association Measures and Matrices. Use R!, 2018, , 35-57. | 0.2 | 4 |
| 328 | Community Diversity. Use R!, 2018, , 369-412. | 0.2 | 4 |
| 329 | A phytosociological method for interpreting plankton data. Marine Ecology - Progress Series, 1993, 93, 285-306. | 1.9 | 4 |
| 330 | Taximetric Analysis of Selected Groups of Western North American Salmo with Respect to Phylogenetic Divergences. Systematic Zoology, 1972, 21, 292. | 1.6 | 3 |
| 331 | THE DEFINITION OF SYSTEMATIC CATEGORIES IN BIOLOGY. Taxon, 1972, 21, 381-406. | 0.7 | 3 |
| 332 | A POSTERIORI WEIGHTING OF DESCRIPTORS. Taxon, 1975, 24, 603-608. | 0.7 | 3 |
| 333 | Report on Seventeenth International Numerical Taxonomy Conference. Systematic Biology, 1984, 33, 117-121. | 5.6 | 3 |
| 334 | Dimensional analysis in ecology. Developments in Environmental Modelling, 2012, 24, 109-142. | 0.3 | 3 |
| 335 | Multiple-Table Data inRwith themultitablePackage. Journal of Statistical Software, 2012, 51, . | 3.7 | 3 |
| 336 | Effects of provisioning on shark behaviour: Reply to Brunnschweiler & McKenzie (2010). Marine Ecology - Progress Series, 2010, 420, 285-288. | 1.9 | 3 |
| 337 | New measures for quantifying directional changes in presence-absence community data. Ecological Indicators, 2022, 136, 108618. | 6.3 | 3 |
| 338 | A Statistical Framework to Test the Consensus Among Additive Trees (Cladograms). Systematic Biology, 1992, 41, 158. | 5.6 | 2 |
| 339 | Multidimensional quantitative data. Developments in Environmental Modelling, 2012, , 143-194. | 0.3 | 2 |
| 340 | Multidimensional semiquantitative data. Developments in Environmental Modelling, 2012, 24, 195-218. | 0.3 | 2 |
| 341 | Modelling habitat distributions for multiple species using phylogenetics. Ecography, 2017, 40, 1088-1097. | 4.5 | 2 |
| 342 | Postglacial palaeoenvironmental reconstruction of the Fury and Hecla Strait region (Nunavut) inferred from microfossils and geochemical proxies. Journal of Quaternary Science, 0, , . | 2.1 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | Is the sampling strategy interfering with the study of spatial variability of zooplankton communities?. Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 1940-1956. | 1.4 | 2 |
| 344 | An Efficient Algorithm for the Detection and Classification of Horizontal Gene Transfer Events and Identification of Mosaic Genes. Studies in Classification, Data Analysis, and Knowledge Organization, 2013, , 253-260. | 0.2 | 2 |
| 345 | Report on Nineteenth International Numerical Taxonomy Conference. Systematic Zoology, 1986, 35, 135. | 1.6 | 1 |
| 346 | Ecological data series. Developments in Environmental Modelling, 2012, , 711-783. | 0.3 | 1 |
| 347 | Multi-scale spatial and partitioning analyses of the reef-fish community composition of the Yucatan fringing reef system. Ecological Complexity, 2016, 28, 69-76. | 2.9 | 1 |
| 348 | Systematic Biology: S.O.S.. Ecology, 1970, 51, 1114-1114. | 3.2 | 0 |
| 349 | Atoms and Human Health. Ecology, 1970, 51, 756-756. | 3.2 | 0 |
| 350 | Examples of Computer Simulation. Ecology, 1971, 52, 199-200. | 3.2 | 0 |
| 351 | Plant Speciation. Ecology, 1972, 53, 368-369. | 3.2 | 0 |
| 352 | MULTIVARIATE MORPHOMETRICS. Taxon, 1972, 21, 515-516. | 0.7 | 0 |
| 353 | Computer Programming for Biologists. Taxon, 1973, 22, 300. | 0.7 | 0 |
| 354 | A New Mathematical Translocation. Taxon, 1974, 23, 201. | 0.7 | 0 |
| 355 | Data Analysis in Vegetation Science. Ecology, 1989, 70, 522-523. | 3.2 | 0 |
| 356 | 2000 Alwyn Gentry Award. Biotropica, 2000, 32, 769. | 1.6 | 0 |
| 357 | Numerical Ecology. Arctic, Antarctic, and Alpine Research, 2000, 32, 218. | 1.1 | 0 |
| 358 | 2000 Alwyn Gentry Award. Biotropica, 2006, 32, 769-770. | 1.6 | 0 |
| 359 | Biogeographic relationships among deep-sea hydrothermal vent faunas at global scale. Nature Precedings, 2008, , . | 0.1 | 0 |
| 360 | Numerical Ecology: Developments for Microbial Ecology. , 1987, , 469-484. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Identification des variables expliquant la distribution spatiale dâ€™oiseaux de la forÃªt borÃ©ale et modÃ©lisation de tendances futuresÂ: une approche multivariÃ©e. CyberGeo, 0, , . | 0.0 | 0 |
| 362 | Science on the edge of spatial scales: a reply to the comments of Williams (2001). Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 2108-2111. | 1.4 | 0 |