

# Pedro R Peres-Neto

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

15,030  
citations

71061

41  
h-index

71651

76  
g-index

77  
all docs

77  
docs citations

77  
times ranked

18301  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Methods to account for spatial autocorrelation in the analysis of species distributional data: a review. <i>Ecography</i> , 2007, 30, 609-628.  | 2.1 | 2,522     |
| 2  | VARIATION PARTITIONING OF SPECIES DATA MATRICES: ESTIMATION AND COMPARISON OF FRACTIONS. <i>Ecology</i> , 2006, 87, 2614-2625.  | 1.5 | 1,875     |
| 3  | 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     |
| 4  | ANALYZING BETA DIVERSITY: PARTITIONING THE SPATIAL VARIATION OF COMMUNITY COMPOSITION DATA. <i>Ecological Monographs</i> , 2005, 75, 435-450.   | 2.4 | 1,014     |
| 5  | How well do multivariate data sets match? The advantages of a Procrustean superimposition approach over the Mantel test. <i>Oecologia</i> , 2001, 129, 169-178.                               | 0.9 | 801       |
| 6  | What controls who is where in freshwater fish communities – the roles of biotic, abiotic, and spatial factors. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 157-170. | 0.7 | 751       |
| 7  | How many principal components? stopping rules for determining the number of non-trivial axes revisited. <i>Computational Statistics and Data Analysis</i> , 2005, 49, 974-997.                | 0.7 | 626       |
| 8  | SPATIAL MODELING IN ECOLOGY: THE FLEXIBILITY OF EIGENFUNCTION SPATIAL ANALYSES. <i>Ecology</i> , 2006, 87, 2603-2613.   | 1.5 | 523       |
| 9  | Community ecology in the age of multivariate multiscale spatial analysis. <i>Ecological Monographs</i> , 2012, 82, 257-275.   | 2.4 | 506       |
| 10 | THE ROLE OF ENVIRONMENTAL AND SPATIAL PROCESSES IN STRUCTURING LAKE COMMUNITIES FROM BACTERIA TO FISH. <i>Ecology</i> , 2006, 87, 2985-2991.  | 1.5 | 446       |
| 11 | 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       |
| 12 | Estimating and controlling for spatial structure in the study of ecological communities. <i>Global Ecology and Biogeography</i> , 2010, 19, 174-184.  | 2.7 | 370       |
| 13 | GIVING MEANINGFUL INTERPRETATION TO ORDINATION AXES: ASSESSING LOADING SIGNIFICANCE IN PRINCIPAL COMPONENT ANALYSIS. <i>Ecology</i> , 2003, 84, 2347-2363.                                    | 1.5 | 297       |
| 14 | What controls who is where in freshwater fish communities – the roles of biotic, abiotic, and spatial factors. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 157-170. | 0.7 | 186       |
| 15 | Metacommunity phylogenetics: separating the roles of environmental filters and historical biogeography. <i>Ecology Letters</i> , 2010, 13, 1290-1299.   | 3.0 | 175       |
| 16 | Predictive Models of Fish Species Distributions: A Note on Proper Validation and Chance Predictions. <i>Transactions of the American Fisheries Society</i> , 2002, 131, 329-336.              | 0.6 | 159       |
| 17 | Patterns in the co-occurrence of fish species in streams: the role of site suitability, morphology and phylogeny versus species interactions. <i>Oecologia</i> , 2004, 140, 352-360.          | 0.9 | 151       |
| 18 | Why phylogenies do not always predict ecological differences. <i>Ecological Monographs</i> , 2017, 87, 535-551.   | 2.4 | 148       |

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|----|--|-----|-----------|
| 19 | Spatial isolation and fish communities in drainage lakes. <i>Oecologia</i> , 2001, 127, 572-585.   | 0.9 | 141       |
| 20 | Environmentally constrained null models: site suitability as occupancy criterion. <i>Oikos</i> , 2001, 93, 110-120.  | 1.2 | 131       |
| 21 | 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       |
| 22 | An Empirical Comparison of SPM Preprocessing Parameters to the Analysis of fMRI Data. <i>NeuroImage</i> , 2002, 17, 19-28.   | 2.1 | 116       |
| 23 | Quantifying and disentangling dispersal in metacommunities: how close have we come? How far is there to go?. <i>Landscape Ecology</i> , 2010, 25, 495-507.                         | 1.9 | 116       |
| 24 | Spatiotemporal dynamics in a seasonal metacommunity structure is predictable: the case of floodplain fish communities. <i>Ecography</i> , 2014, 37, 464-475.                       | 2.1 | 113       |
| 25 | Assessing the effects of spatial contingency and environmental filtering on metacommunity phylogenetics. <i>Ecology</i> , 2012, 93, S14.   | 1.5 | 105       |
| 26 | The influence of swimming demand on phenotypic plasticity and morphological integration: a comparison of two polymorphic charr species. <i>Oecologia</i> , 2004, 140, 36-45.       | 0.9 | 103       |
| 27 | Ecology in the age of DNA barcoding: the resource, the promise and the challenges ahead. <i>Molecular Ecology Resources</i> , 2014, 14, 221-232.                                   | 2.2 | 99        |
| 28 | A NEW PHYLOGENETIC METHOD FOR IDENTIFYING EXCEPTIONAL PHENOTYPIC DIVERSIFICATION. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 135-146.                | 1.1 | 95        |
| 29 | A community of metacommunities: exploring patterns in species distributions across large geographical areas. <i>Ecology</i> , 2013, 94, 627-639.                                   | 1.5 | 95        |
| 30 | Phylogenetic eigenvector maps: a framework to model and predict species traits. <i>Methods in Ecology and Evolution</i> , 2013, 4, 1120-1131.                                      | 2.2 | 91        |
| 31 | MEMGENE: Spatial pattern detection in genetic distance data. <i>Methods in Ecology and Evolution</i> , 2014, 5, 1116-1120.   | 2.2 | 83        |
| 32 | ANALYZING OR EXPLAINING BETA DIVERSITY? COMMENT. <i>Ecology</i> , 2008, 89, 3238-3244.   | 1.5 | 81        |
| 33 | Assessing the robustness of randomization tests: examples from behavioural studies. <i>Animal Behaviour</i> , 2001, 61, 79-86.   | 0.8 | 64        |
| 34 | Beyond neutrality: disentangling the effects of species sorting and spurious correlations in community analysis. <i>Ecology</i> , 2018, 99, 1737-1747.                             | 1.5 | 62        |
| 35 | Global urban environmental change drives adaptation in white clover. <i>Science</i> , 2022, 375, 1275-1281.  | 6.0 | 62        |
| 36 | Determinism of bacterial metacommunity dynamics in the southern East China Sea varies depending on hydrography. <i>Ecography</i> , 2015, 38, 198-212.                              | 2.1 | 61        |

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|----|--|------|-----------|
| 37 | Much beyond Mantel: Bringing Procrustes Association Metric to the Plant and Soil Ecologist's Toolbox. <i>PLoS ONE</i> , 2014, 9, e101238.  | 1.1  | 60        |
| 38 | Using functional traits to investigate the determinants of crustacean zooplankton community structure. <i>Oikos</i> , 2013, 122, 1700-1709.  | 1.2  | 58        |
| 39 | Using null model analysis of species co-occurrences to deconstruct biodiversity patterns and select indicator species. <i>Diversity and Distributions</i> , 2009, 15, 958-971.                           | 1.9  | 50        |
| 40 | Measuring Protected Area Isolation and Correlations of Isolation with Land Use Intensity and Protection Status. <i>Conservation Biology</i> , 2012, 26, 610-618.   | 2.4  | 48        |
| 41 | Influence of agronomic practices, local environment and landscape structure on predatory beetle assemblage. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 500-507.                         | 2.5  | 42        |
| 42 | 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        |
| 43 | Habitat-based polymorphism is common in stream fishes. <i>Journal of Animal Ecology</i> , 2015, 84, 219-227.   | 1.3  | 38        |
| 44 | Deconstructing the relationships between phylogenetic diversity and ecology: a case study on ecosystem functioning. <i>Ecology</i> , 2016, 97, 2212-2222.  | 1.5  | 34        |
| 45 | On the evolution of dispersal via heterogeneity in spatial connectivity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142879.   | 1.2  | 30        |
| 46 | Simple parametric tests for trait-environment association. <i>Journal of Vegetation Science</i> , 2018, 29, 801-811.   | 1.1  | 27        |
| 47 | Assessing among-lineage variability in phylogenetic imputation of functional trait datasets. <i>Ecography</i> , 2018, 41, 1740-1749.   | 2.1  | 26        |
| 48 | Climate, history and life-history strategies interact in explaining differential macroecological patterns in freshwater zooplankton. <i>Global Ecology and Biogeography</i> , 2016, 25, 1454-1465.       | 2.7  | 22        |
| 49 | Meso-scale distributions of lake zooplankton reveal spatially and temporally varying trophic cascades. <i>Journal of Plankton Research</i> , 2010, 32, 1369-1384.  | 0.8  | 21        |
| 50 | Improving phylogenetic regression under complex evolutionary models. <i>Ecology</i> , 2016, 97, 286-293.   | 1.5  | 18        |
| 51 | Spatial and species compositional networks for inferring connectivity patterns in ecological communities. <i>Global Ecology and Biogeography</i> , 2015, 24, 718-727.                                    | 2.7  | 17        |
| 52 | The interaction between the spatial distribution of resource patches and population density: consequences for intraspecific growth and morphology. <i>Journal of Animal Ecology</i> , 2015, 84, 934-942. | 1.3  | 17        |
| 53 | Act to staunch loss of research data. <i>Nature</i> , 2015, 520, 436-436.  | 13.7 | 16        |
| 54 | Convergent polymorphism between stream and lake habitats: the case of brook char. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 1406-1414.                                       | 0.7  | 15        |

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|----|---|-----|-----------|
| 55 | A quantitative framework to estimate the relative importance of environment, spatial variation and patch connectivity in driving community composition. <i>Journal of Animal Ecology</i> , 2017, 86, 316-326. | 1.3 | 14        |
| 56 | The interaction of phylogeny and community structure: Linking the community composition and trait evolution of clades. <i>Global Ecology and Biogeography</i> , 2019, 28, 1499-1511.                          | 2.7 | 14        |
| 57 | Type 1 Error Rates of the Parsimony Permutation Tail Probability Test. <i>Systematic Biology</i> , 2002, 51, 524-527.   | 2.7 | 13        |
| 58 | Morphological and swim performance variation among reproductive tactics of bluegill sunfish ( <i>Lepomis macrochirus</i> ). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 1802-1810.  | 0.7 | 13        |
| 59 | Phylogenetic gradient analysis: environmental drivers of phylogenetic variation across ecological communities. <i>Plant Ecology</i> , 2015, 216, 709-724.   | 0.7 | 13        |
| 60 | The importance of scaling of multivariate analysis in ecological studies. <i>Ecoscience</i> , 2001, 8, 522-526.   | 0.6 | 12        |
| 61 | Competitive effects between rainbow trout and Atlantic salmon in natural and artificial streams. <i>Ecology of Freshwater Fish</i> , 2016, 25, 248-260.   | 0.7 | 12        |
| 62 | The spatial frequency of climatic conditions affects niche composition and functional diversity of species assemblages: the case of Angiosperms. <i>Ecology Letters</i> , 2020, 23, 254-264.                  | 3.0 | 12        |
| 63 | Will technology trample peer review in ecology? Ongoing issues and potential solutions. <i>Oikos</i> , 2016, 125, 3-9.  | 1.2 | 11        |
| 64 | Shifts in Climate Foster Exceptional Opportunities for Species Radiation: The Case of South African Geraniums. <i>PLoS ONE</i> , 2013, 8, e83087.   | 1.1 | 10        |
| 65 | Seasonal trophic dynamics affect zooplankton community variability. <i>Freshwater Biology</i> , 2009, 54, 2351-2363.  | 1.2 | 9         |
| 66 | Epidemiological landscape models reproduce cyclic insect outbreaks. <i>Ecological Complexity</i> , 2017, 31, 78-87.   | 1.4 | 9         |
| 67 | Using directed phylogenetic networks to retrace species dispersal history. <i>Molecular Phylogenetics and Evolution</i> , 2012, 64, 190-197.  | 1.2 | 7         |
| 68 | Delineating marine ecological units: a novel approach for deciding which taxonomic group to use and which taxonomic resolution to choose. <i>Diversity and Distributions</i> , 2015, 21, 1167-1180.           | 1.9 | 7         |
| 69 | Phenotype-dependent selection underlies patterns of sorting across habitats: the case of stream fishes. <i>Oikos</i> , 2017, 126, 1660-1671.  | 1.2 | 7         |
| 70 | Effects of foraging and sexual selection on ecomorphology of a fish with alternative reproductive tactics. <i>Behavioral Ecology</i> , 2013, 24, 1339-1347.   | 1.0 | 6         |
| 71 | Inferring explicit weighted consensus networks to represent alternative evolutionary histories. <i>BMC Evolutionary Biology</i> , 2013, 13, 274.  | 3.2 | 5         |
| 72 | When Are Random Data Not Random, or Is the PTP Test Useful?. <i>Cladistics</i> , 2000, 16, 420-424.   | 1.5 | 4         |

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|----|---|-----|-----------|
| 73 | Early growth trajectories affect sexual responsiveness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132899. | 1.2 | 4         |
| 74 | Disturbance-induced emigration: an overlooked mechanism that reduces metapopulation extinction risk. <i>Ecology</i> , 2021, 102, e03423.      | 1.5 | 3         |
| 75 | Species compositions mediate biomass conservation: The case of lake fish communities. <i>Ecology</i> , 2021, , e3608.                         | 1.5 | 3         |
| 76 | Games researchers play: conceptual advancement versus validation strategies. <i>Trends in Ecology and Evolution</i> , 2022, 37, 399-401.      | 4.2 | 1         |