# JoaquÃ-n Hortal MuÃ±oz

List of Publications by Year
in descending order



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|---|---|---|---|
| 129 papers | 8,961 citations | 50170 46 h-index | 46693 89 g-index |
| 135 all docs | 135 docs citations | 135 times ranked | 10989 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Elevational and seasonal distribution of Scarabaeinae dung beetles (Scarabaeidae: Coleoptera) at Itatiaia National Park (Brazil). International Journal of Tropical Insect Science, 2022, 42, 1579-1592. | 0.4 | 6 |
| 2 | COVID-19 effective reproduction number dropped during Spain's nationwide dropdown, then spiked at lower-incidence regions. Science of the Total Environment, 2021, 751, 142257. | 3.9 | 35 |
| 3 | High uncertainty in the effects of data characteristics on the performance of species distribution models. Ecological Indicators, 2021, 121, 107147. | 2.6 | 26 |
| 4 | Unveiling the drivers of local dung beetle species richness in the Neotropics. Journal of Biogeography, 2021, 48, 861-871. | 1.4 | 11 |
| 5 | Quantifying shortfalls in the knowledge on Neotropical Auchenipteridae fishes. Fish and Fisheries, 2021, 22, 87-104. | 2.7 | 18 |
| 6 | Short- and long-term temporal changes in the assemblage structure of Amazonian dung beetles. Oecologia, 2021, 195, 719-736. | 0.9 | 19 |
| 7 | Human perturbations reduce dung beetle diversity and dung removal ecosystem function. Biotropica, 2021, 53, 753-766. | 0.8 | 45 |
| 8 | Quantitative genetics of extreme insular dwarfing: The case of red deer on Jersey. Journal of Biogeography, 2021, 48, 1720-1730. | 1.4 | 6 |
| 9 | Knowledge gaps hamper understanding the relationship between fragmentation and biodiversity loss: the case of Atlantic Forest fruit-feeding butterflies. PeerJ, 2021, 9, e11673. | 0.9 | 12 |
| 10 | Disturbed habitats locally reduce the signal of deep evolutionary history in functional traits of plants. New Phytologist, 2021, 232, 1849-1862. | 3.5 | 7 |
| 11 | Thermal niche dimensionality could limit speciesâ€™ responses to temperature changes: Insights from dung beetles. Journal of Biogeography, 2021, 48, 3072-3084. | 1.4 | 2 |
| 12 | Using maps of biogeographical ignorance to reveal the uncertainty in distributional data hidden in species distribution models. Ecography, 2021, 44, 1743-1755. | 2.1 | 20 |
| 13 | Canopy height explains species richness in the largest clade of Neotropical lianas. Global Ecology and Biogeography, 2020, 29, 26-37. | 2.7 | 17 |
| 14 | A niche perspective on the range expansion of symbionts. Biological Reviews, 2020, 95, 491-516. | 4.7 | 28 |
| 15 | Assessing the functional relationship between dung beetle traits and dung removal, burial, and seedling emergence. Ecology, 2020, 101, e03138. | 1.5 | 28 |
| 16 | Current climate, but also longâ€term climate changes and human impacts, determine the geographic distribution of European mammal diversity. Global Ecology and Biogeography, 2020, 29, 1758-1769. | 2.7 | 21 |
| 17 | Deconstructing species richnessâ€“environment relationships in Neotropical lianas. Journal of Biogeography, 2020, 47, 2168-2180. | 1.4 | 8 |
| 18 | How reliable are species identifications in biodiversity big data? Evaluating the records of a neotropical fish family in online repositories. Systematics and Biodiversity, 2020, 18, 181-191. | 0.5 | 12 |

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|---|---|---|---|
| 19 | Rethinking extinctions that arise from habitat loss. Nature, 2020, 584, 194-196. | 13.7 | 7 |
| 20 | Assessing spatial and temporal biases and gaps in the publicly available distributional information of Iberian mosses. Biodiversity Data Journal, 2020, 8, e53474. | 0.4 | 11 |
| 21 | Quantitative genetics of body size evolution on islands: an individual-based simulation approach. Biology Letters, 2019, 15, 20190481. | 1.0 | 12 |
| 22 | Unifying macroecology and macroevolution to answer fundamental questions about biodiversity. Global Ecology and Biogeography, 2019, 28, 1925-1936. | 2.7 | 44 |
| 23 | Pleistocene climate change and the formation of regional species pools. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190291. | 1.2 | 20 |
| 24 | BtM, a Low-cost Open-source Datalogger to Estimate the Water Content of Nonvascular Cryptogams. Journal of Visualized Experiments, 2019, , . | 0.2 | 1 |
| 25 | Drivers of regional and local diversity of Amazonian stream Odonata. Insect Conservation and Diversity, 2019, 12, 251-261. | 1.4 | 17 |
| 26 | Metacommunity patterns of Amazonian Odonata: the role of environmental gradients and major rivers. PeerJ, 2019, 7, e6472. | 0.9 | 16 |
| 27 | KnowBR: An application to map the geographical variation of survey effort and identify well-surveyed areas from biodiversity databases. Ecological Indicators, 2018, 91, 241-248. | 2.6 | 83 |
| 28 | Shifts in the importance of the species pool and environmental controls of epiphytic bryophyte richness across multiple scales. Oecologia, 2018, 186, 805-816. | 0.9 | 12 |
| 29 | Research trends in ecosystem services provided by insects. Basic and Applied Ecology, 2018, 26, 8-23. | 1.2 | 216 |
| 30 | Global Island Monitoring Scheme (GIMS): a proposal for the long-term coordinated survey and monitoring of native island forest biota. Biodiversity and Conservation, 2018, 27, 2567-2586. | 1.2 | 72 |
| 31 | Frontiers of Biogeography: taking its place as a journal of choice for the publication of high quality biogeographical research articles. Frontiers of Biogeography, 2018, 10, . | 0.8 | 0 |
| 32 | Spatial and temporal variations of aridity shape dung beetle assemblages towards the Sahara desert. PeerJ, 2018, 6, e5210. | 0.9 | 9 |
| 33 | Uneven abundances determine nestedness in climbing plant-host interaction networks. Perspectives in Plant Ecology, Evolution and Systematics, 2017, 26, 53-59. | 1.1 | 8 |
| 34 | Environmental niche divergence among three dune shrub sister species with parapatric distributions. Annals of Botany, 2017, 119, 1157-1167. | 1.4 | 8 |
| 35 | A roadmap for island biology: 50 fundamental questions after 50Âyears of The Theory of Island Biogeography. Journal of Biogeography, 2017, 44, 963-983. | 1.4 | 167 |
| 36 | Temporal degradation of data limits biodiversity research. Ecology and Evolution, 2017, 7, 6863-6870. | 0.8 | 45 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Trait dynamics of Mediterranean xerophytic shrub communities growing on stabilised inland dunes respond to nutrient and aridity gradients. Plant Ecology and Diversity, 2017, 10, 115-126. | 1.0 | 4 |
| 38 | Handbook of protocols for standardized measurement of terrestrial invertebrate functional traits. Functional Ecology, 2017, 31, 558-567. | 1.7 | 290 |
| 39 | Assessing the suitability of diversity metrics to detect biodiversity change. Biological Conservation, 2017, 213, 341-350. | 1.9 | 92 |
| 40 | How the landscape of publishing is changing biogeography. Frontiers of Biogeography, 2017, 9, . | 0.8 | 0 |
| 41 | Introduction, Establishment, Invasion, Accommodation: innovation and disruption in biogeographic publishing. Frontiers of Biogeography, 2017, 9, . | 0.8 | 0 |
| 42 | Contextualized niche shifts upon independent invasions by the dung beetle Onthophagus taurus. Biological Invasions, 2016, 18, 3137-3148. | 1.2 | 48 |
| 43 | Contrasting changes in the abundance and diversity of North American bird assemblages from 1971 to 2010. Global Change Biology, 2016, 22, 3948-3959. | 4.2 | 79 |
| 44 | Mapping ignorance: 300 years of collecting flowering plants in Africa. Global Ecology and Biogeography, 2016, 25, 1085-1096. | 2.7 | 85 |
| 45 | The Evolutionary Legacy of Diversification Predicts Ecosystem Function. American Naturalist, 2016, 188, 398-410. | 1.0 | 14 |
| 46 | Geography and major host evolutionary transitions shape the resource use of plant parasites. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9840-9845. | 3.3 | 61 |
| 47 | Glaciations, deciduous forests, water availability and current geographical patterns in the diversity of European Carabus species. Journal of Biogeography, 2016, 43, 2343-2353. | 1.4 | 40 |
| 48 | New records and detailed distribution and abundance of selected arthropod species collected between 1999 and 2011 in Azorean native forests. Biodiversity Data Journal, 2016, 4, e10948. | 0.4 | 12 |
| 49 | Using niche models of indicator species to predict the distribution of xerophytic shrub dune communities. Web Ecology, 2016, 16, 47-49. | 0.4 | 4 |
| 50 | Epiphytic bryophytes of Quercus forests in Central and North inland Iberian Peninsula. Frontiers of Biogeography, 2015, 7, . | 0.8 | 1 |
| 51 | Seven Shortfalls that Beset Large-Scale Knowledge of Biodiversity. Annual Review of Ecology, Evolution, and Systematics, 2015, 46, 523-549. | 3.8 | 856 |
| 52 | Local and regional-scale factors drive xerophytic shrub community dynamics on Mediterranean stabilized dunes. Plant and Soil, 2015, 391, 413-426. | 1.8 | 5 |
| 53 | On the need for phylogenetic â€˜correctionsâ€™ in functional trait-based approaches. Folia Geobotanica, 2015, 50, 349-357. | 0.4 | 84 |
| 54 | Epiphytic bryophytes of Quercus forests in Central and North inland Iberian Peninsula. Frontiers of Biogeography, 2015, 7, . | 0.8 | 5 |

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|---|---|---|---|
| 55 | Geographical, Temporal and Environmental Determinants of Bryophyte Species Richness in the Macaronesian Islands. PLoS ONE, 2014, 9, e101786. | 1.1 | 49 |
| 56 | Perspectives on the use of lakes and ponds as model systems for macroecological research. Journal of Limnology, 2014, 73, . | 0.3 | 33 |
| 57 | Species richness of epiphytic bryophytes: drivers across scales on the edge of the Mediterranean. Ecography, 2014, 37, 80-93. | 2.1 | 37 |
| 58 | Information visualisation for science and policy: engaging users and avoiding bias. Trends in Ecology and Evolution, 2014, 29, 148-157. | 4.2 | 95 |
| 59 | Constraint envelope analyses of macroecological patterns reveal climatic effects on Pleistocene mammal extinctions. Quaternary Research, 2014, 82, 260-269. | 1.0 | 8 |
| 60 | Climatic niche at physiological and macroecological scales: the thermal toleranceâ€“geographical range interface and niche dimensionality. Global Ecology and Biogeography, 2014, 23, 446-456. | 2.7 | 65 |
| 61 | Uncertainty associated with survey design in Species Distribution Models. Diversity and Distributions, 2014, 20, 1258-1269. | 1.9 | 91 |
| 62 | Designing bryophyte surveys for an optimal coverage of diversity gradients. Biodiversity and Conservation, 2013, 22, 3121-3139. | 1.2 | 11 |
| 63 | How do different dispersal modes shape the speciesâ€“area relationship? Evidence for betweenâ€group coherence in the <scp>M</scp>acaronesian flora. Global Ecology and Biogeography, 2013, 22, 483-493. | 2.7 | 38 |
| 64 | Nonstationary effects of productivity, seasonality, and historical climate changes on global amphibian diversity. Ecography, 2013, 36, 104-113. | 2.1 | 59 |
| 65 | At least some protist species are not ubiquitous. Molecular Ecology, 2013, 22, 5053-5055. | 2.0 | 22 |
| 66 | Species richness can decrease with altitude but not with habitat diversity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2149-50. | 3.3 | 64 |
| 67 | Mapping species distributions: living with uncertainty. Frontiers of Biogeography, 2013, 5, . | 0.8 | 4 |
| 68 | Mapping species distributions: living with uncertainty. Frontiers of Biogeography, 2013, 5, . | 0.8 | 30 |
| 69 | Assessing extinction risks under the combined effects of climate change and human disturbance through the analysis of life-history plasticity. Perspectives in Plant Ecology, Evolution and Systematics, 2012, 14, 393-401. | 1.1 | 18 |
| 70 | workshop summary: The application of species distribution models in the megadiverse Neotropics poses a renewed set of research questions. Frontiers of Biogeography, 2012, 4, . | 0.8 | 0 |
| 71 | Frontiers of Biogeography, a new frontier for the IBS. Frontiers of Biogeography, 2012, 1, . | 0.8 | 0 |
| 72 | Resolving the Azorean knot: a response to Carine & Schaefer (2010). Journal of Biogeography, 2012, 39, 1179-1184. | 1.4 | 32 |

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|---|---|---|---|
| 73 | Integrating biogeographical processes and local community assembly. Journal of Biogeography, 2012, 39, 627-628. | 1.4 | 30 |
| 74 | update: Escaping the trap of low sample size in island biogeography. Frontiers of Biogeography, 2012, 3, . | 0.8 | 4 |
| 75 | Basic questions in biogeography and the (lack of) simplicity of species distributions: Putting species distribution models in the right place. Natureza A Conservacao, 2012, 10, 106-116. | 2.5 | 34 |
| 76 | Using species distribution models in paleobiogeography: A matter of data, predictors and concepts. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 310, 451-463. | 1.0 | 145 |
| 77 | Geographic variation in the diversity of microbial communities: research directions and prospects for experimental biogeography. , 2011, , 335-357. | | 12 |
| 78 | Ice age climate, evolutionary constraints and diversity patterns of European dung beetles. Ecology Letters, 2011, 14, 741-748. | 3.0 | 183 |
| 79 | Species pool structure determines the level of generalism of island parasitoid faunas. Journal of Biogeography, 2011, 38, 1657-1667. | 1.4 | 14 |
| 80 | Climatic niche conservatism and the evolutionary dynamics in species range boundaries: global congruence across mammals and amphibians. Journal of Biogeography, 2011, 38, 2237-2247. | 1.4 | 75 |
| 81 | Are island and mainland biotas different? Richness and level of generalism in parasitoids of a microlepidopteran in Macaronesia. Oikos, 2011, 120, 1256-1262. | 1.2 | 17 |
| 82 | Evidence of Weak Habitat Specialisation in Microscopic Animals. PLoS ONE, 2011, 6, e23969. | 1.1 | 37 |
| 83 | Can Species Richness Patterns Be Interpolated From a Limited Number of Well-Known Areas? Mapping Diversity Using GLM and Kriging. Natureza A Conservacao, 2011, 9, 200-207. | 2.5 | 11 |
| 84 | Species richness estimation: Estimator performance and the influence of rare species. Limnology and Oceanography: Methods, 2010, 8, 294-303. | 1.0 | 14 |
| 85 | Predicted insect diversity declines under climate change in an already impoverished region. Journal of Insect Conservation, 2010, 14, 485-498. | 0.8 | 49 |
| 86 | The uncertain nature of absences and their importance in species distribution modelling. Ecography, 2010, 33, 103-114. | 2.1 | 490 |
| 87 | Understanding (insect) species distributions across spatial scales. Ecography, 2010, 33, 51-53. | 2.1 | 158 |
| 88 | Extinction debt on oceanic islands. Ecography, 2010, 33, 285-294. | 2.1 | 114 |
| 89 | Assessing the reliability of biodiversity databases: identifying evenly inventoried island parasitoid faunas (Hymenoptera: Ichneumonoidea) worldwide. Insect Conservation and Diversity, 2010, 3, 72-82. | 1.4 | 30 |
| 90 | Are speciesâ€“area relationships from entire archipelagos congruent with those of their constituent islands?. Global Ecology and Biogeography, 2010, 19, 527-540. | 2.7 | 46 |

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|---|---|---|---|
| 91 | Assessingalphaandbetataxonomy in eupelmid wasps: determinants of the probability of describing good species and synonyms. Journal of Zoological Systematics and Evolutionary Research, 2010, 48, 40-49. | 0.6 | 19 |
| 92 | Assessing the areas under risk of invasion within islands through potential distribution modelling: The case of Pittosporum undulatum in SÃ£o Miguel, Azores. Journal for Nature Conservation, 2010, 18, 247-257. | 0.8 | 46 |
| 93 | Lost in space? Searching for directions in the spatial modelling of individuals, populations and species ranges. Biology Letters, 2010, 6, 575-578. | 1.0 | 11 |
| 94 | Effects of macro and micro-environmental factors on the species richness of terrestrial tardigrade assemblages in an Iberian mountain environment. Landscape Ecology, 2009, 24, 375-390. | 1.9 | 30 |
| 95 | Time, area and isolation: factors driving the diversification of Azorean arthropods. Journal of Biogeography, 2009, 36, 178-191. | 1.4 | 93 |
| 96 | Climate history, human impacts and global body size of Carnivora (Mammalia: Eutheria) at multiple evolutionary scales. Journal of Biogeography, 2009, 36, 2222-2236. | 1.4 | 69 |
| 97 | Coefficient shifts in geographical ecology: an empirical evaluation of spatial and nonâ€spatial regression. Ecography, 2009, 32, 193-204. | 2.1 | 231 |
| 98 | Testing the effectiveness of discrete and continuous environmental diversity as a surrogate for species diversity. Ecological Indicators, 2009, 9, 138-149. | 2.6 | 25 |
| 99 | Would species richness estimators change the observed species area relationship?. Acta Oecologica, 2009, 35, 149-156. | 0.5 | 19 |
| 100 | Island Species Richness Increases with Habitat Diversity. American Naturalist, 2009, 174, E205-E217. | 1.0 | 219 |
| 101 | The effect of prevalence and its interaction with sample size on the reliability of species distribution models. Community Ecology, 2009, 10, 196-205. | 0.5 | 97 |
| 102 | Historical bias in biodiversity inventories affects the observed environmental niche of the species. Oikos, 2008, 117, 847-858. | 1.2 | 272 |
| 103 | Measurements of area and the (island) speciesâ€“area relationship: new directions for an old pattern. Oikos, 2008, 117, 1555-1559. | 1.2 | 51 |
| 104 | Not as good as they seem: the importance of concepts in species distribution modelling. Diversity and Distributions, 2008, 14, 885-890. | 1.9 | 501 |
| 105 | Regional and environmental effects on the species richness of mammal assemblages. Journal of Biogeography, 2008, 35, 1202-1214. | 1.4 | 101 |
| 106 | Uncertainty and the measurement of terrestrial biodiversity gradients. Journal of Biogeography, 2008, 35, 1335-1336. | 1.4 | 73 |
| 107 | Challenging Species Distribution Models: The Case ofMaculinea nausithousin the Iberian Peninsula. Annales Zoologici Fennici, 2008, 45, 200-210. | 0.2 | 44 |
| 108 | Climate Change, Humans, and the Extinction of the Woolly Mammoth. PLoS Biology, 2008, 6, e79. | 2.6 | 250 |

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|---|---|---|---|
| 109 | METABOLIC THEORY AND DIVERSITY GRADIENTS: WHERE DO WE GO FROM HERE?. Ecology, 2007, 88, 1898-1902. | 1.5 | 47 |
| 110 | A GLOBAL EVALUATION OF METABOLIC THEORY AS AN EXPLANATION FOR TERRESTRIAL SPECIES RICHNESS GRADIENTS. Ecology, 2007, 88, 1877-1888. | 1.5 | 139 |
| 111 | Limitations of Biodiversity Databases: Case Study on Seed-Plant Diversity in Tenerife, Canary Islands. Conservation Biology, 2007, 21, 853-863. | 2.4 | 241 |
| 112 | Invasive exotic aoudad (Ammotragus lervia) as a major threat to native Iberian ibex (Capra) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.9 | 57 |
| 113 | How does the knowledge about the spatial distribution of Iberian dung beetle species accumulate over time?. Diversity and Distributions, 2007, 13, 772-780. | 1.9 | 61 |
| 114 | Which leaf beetles have not yet been described? Determinants of the description of Western Palaearctic Aphthona species (Coleoptera: Chrysomelidae). Biodiversity and Conservation, 2007, 16, 1409-1421. | 1.2 | 21 |
| 115 | A synecological framework for systematic conservation planning. Biodiversity Informatics, 2006, 3, . | 3.0 | 30 |
| 116 | Prospects for population expansion of the exotic aoudad (Ammotragus lervia; Bovidae) in the Iberian Peninsula: clues from habitat suitability modelling. Diversity and Distributions, 2006, 12, 666-678. | 1.9 | 33 |
| 117 | Evaluating the performance of species richness estimators: sensitivity to sample grain size. Journal of Animal Ecology, 2006, 75, 274-287. | 1.3 | 418 |
| 118 | An evaluation of the influence of environment and biogeography on community structure: the case of Holarctic mammals. Journal of Biogeography, 2006, 33, 291-303. | 1.4 | 30 |
| 119 | Regional and local influence of grazing activity on the diversity of a semi-arid dung beetle community. Diversity and Distributions, 2006, 12, 111-123. | 1.9 | 60 |
| 120 | Historical Determinants of Mammal Diversity in Africa: Evolution of Mammalian Body Mass Distribution in Africa and South America During Neogene and Quarternary Times. , 2005, , 287-295. | | 8 |
| 121 | Evaluating the roles of connectivity and environment on faunal turnover: patterns in recent and fossil Iberian mammals. , 2005, , 301-327. | | 2 |
| 122 | An ED-based Protocol for Optimal Sampling of Biodiversity. Biodiversity and Conservation, 2005, 14, 2913-2947. | 1.2 | 140 |
| 123 | Potential distribution modelling, niche characterization and conservation status assessment using GIS tools: a case study of Iberian Copris species. Biological Conservation, 2005, 122, 327-338. | 1.9 | 134 |
| 124 | Butterfly species richness in mainland Portugal: predictive models of geographic distribution patterns. Ecography, 2004, 27, 68-82. | 2.1 | 85 |
| 125 | Title is missing!. Biodiversity and Conservation, 2001, 10, 1343-1367. | 1.2 | 56 |
| 126 | Dung Beetle Geographic Diversity Variation Along a Western Iberian Latitudinal Transect (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.3 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | New light on the baseline importance of temperature for the origin of geographic species richness gradients. Peer Community in Ecology, 0, , . | 0.0 | 0 |
| 128 | Understanding the interplay between host-specificity, environmental conditions and competition through the sound application of Joint Species Distribution Models. Peer Community in Ecology, 0, , . | 0.0 | 0 |
| 129 | A meaningful application of species distribution models and functional traits to understand invasion dynamics. Peer Community in Ecology, 0, , . | 0.0 | 0 |