

Boris Schrder

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

11,951
citations

41
h-index

109
g-index

125
ext. papers

14,581
ext. citations

4.5
avg. IF

5.92
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 117 | Collinearity: a review of methods to deal with it and a simulation study evaluating their performance. <i>Ecography</i> , 2013 , 36, 27-46 | 6.5 | 4125 |
| 116 | Methods to account for spatial autocorrelation in the analysis of species distributional data: a review. <i>Ecography</i> , 2007 , 30, 609-628 | 6.5 | 2078 |
| 115 | Cross-validation strategies for data with temporal, spatial, hierarchical, or phylogenetic structure. <i>Ecography</i> , 2017 , 40, 913-929 | 6.5 | 566 |
| 114 | The importance of correcting for sampling bias in MaxEnt species distribution models. <i>Diversity and Distributions</i> , 2013 , 19, 1366-1379 | 5 | 563 |
| 113 | Correlation and process in species distribution models: bridging a dichotomy. <i>Journal of Biogeography</i> , 2012 , 39, 2119-2131 | 4.1 | 414 |
| 112 | How can statistical models help to determine driving factors of landslides?. <i>Ecological Modelling</i> , 2012 , 239, 27-39 | 3 | 211 |
| 111 | How to understand species niches and range dynamics: a demographic research agenda for biogeography. <i>Journal of Biogeography</i> , 2012 , 39, 2146-2162 | 4.1 | 205 |
| 110 | The virtual ecologist approach: simulating data and observers. <i>Oikos</i> , 2010 , 119, 622-635 | 4 | 193 |
| 109 | Components of uncertainty in species distribution analysis: a case study of the Great Grey Shrike. <i>Ecology</i> , 2008 , 89, 3371-86 | 4.6 | 153 |
| 108 | A standard protocol for reporting species distribution models. <i>Ecography</i> , 2020 , 43, 1261-1277 | 6.5 | 141 |
| 107 | Modelling habitat and spatial distribution of an endangered longhorn beetle – A case study for saproxylic insect conservation. <i>Biological Conservation</i> , 2007 , 137, 372-381 | 6.2 | 126 |
| 106 | Integrating movement ecology with biodiversity research - exploring new avenues to address spatiotemporal biodiversity dynamics. <i>Movement Ecology</i> , 2013 , 1, 6 | 4.6 | 121 |
| 105 | Global distribution of earthworm diversity. <i>Science</i> , 2019 , 366, 480-485 | 33.3 | 113 |
| 104 | Constrain to perform: Regularization of habitat models. <i>Ecological Modelling</i> , 2006 , 193, 675-690 | 3 | 106 |
| 103 | Model averaging in ecology: a review of Bayesian, information-theoretic, and tactical approaches for predictive inference. <i>Ecological Monographs</i> , 2018 , 88, 485-504 | 9 | 105 |
| 102 | Bark Beetles Increase Biodiversity While Maintaining Drinking Water Quality. <i>Conservation Letters</i> , 2015 , 8, 272-281 | 6.9 | 105 |
| 101 | Analysis of pattern-process interactions based on landscape models – Overview, general concepts, and methodological issues. <i>Ecological Modelling</i> , 2006 , 199, 505-516 | 3 | 101 |

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| 100 | Static species distribution models in dynamically changing systems: how good can predictions really be?. <i>Ecography</i> , 2009 , 32, 733-744 | 6.5 | 100 |
| 99 | The Brazilian Cerrado: assessment of water and soil degradation in catchments under intensive agricultural use. <i>Ecohydrology</i> , 2015 , 8, 1154-1180 | 2.5 | 89 |
| 98 | Predicting to new environments: tools for visualizing model behaviour and impacts on mapped distributions. <i>Diversity and Distributions</i> , 2012 , 18, 628-634 | 5 | 80 |
| 97 | Ecological&Economic optimization of biodiversity conservation under climate change. <i>Nature Climate Change</i> , 2011 , 1, 355-359 | 21.4 | 77 |
| 96 | Spatial disaggregation of complex soil map units: A decision-tree based approach in Bavarian forest soils. <i>Geoderma</i> , 2012 , 185-186, 37-47 | 6.7 | 75 |
| 95 | Estimation of suspended sediment concentration and yield using linear models, random forests and quantile regression forests. <i>Hydrological Processes</i> , 2008 , 22, 4892-4904 | 3.3 | 73 |
| 94 | HESS Opinions: From response units to functional units: a thermodynamic reinterpretation of the HRU concept to link spatial organization and functioning of intermediate scale catchments. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 4635-4655 | 5.5 | 70 |
| 93 | Habitat models and habitat connectivity analysis for butterflies and burnet moths &The example of <i>Zygaena carniolica</i> and <i>Coenonympha arcania</i> . <i>Biological Conservation</i> , 2005 , 126, 247-259 | 6.2 | 66 |
| 92 | Habitat models and their transfer for single and multi species groups: a case study of carabids in an alluvial forest. <i>Ecography</i> , 2001 , 24, 483-496 | 6.5 | 65 |
| 91 | Decomposing environmental, spatial, and spatiotemporal components of species distributions. <i>Ecological Monographs</i> , 2011 , 81, 329-347 | 9 | 60 |
| 90 | Population dynamics and habitat connectivity affecting the spatial spread of populations & simulation study. <i>Landscape Ecology</i> , 2002 , 17, 57-70 | 4.3 | 59 |
| 89 | A functional entity approach to predict soil erosion processes in a small Plio-Pleistocene Mediterranean catchment in Northern Chianti, Italy. <i>Geomorphology</i> , 2011 , 125, 530-540 | 4.3 | 55 |
| 88 | Habitat at the mountain tops: how long can Rock Ptarmigan (<i>Lagopus muta helvetica</i>) survive rapid climate change in the Swiss Alps? A multi-scale approach. <i>Journal of Ornithology</i> , 2012 , 153, 891-905 | 1.5 | 53 |
| 87 | Linking spatial earthworm distribution to macropore numbers and hydrological effectiveness. <i>Ecohydrology</i> , 2014 , 7, 401-408 | 2.5 | 52 |
| 86 | Assessing species vulnerability to climate and land use change: the case of the Swiss breeding birds. <i>Diversity and Distributions</i> , 2014 , 20, 708-719 | 5 | 49 |
| 85 | Uncertainty in predictions of range dynamics: black grouse climbing the Swiss Alps. <i>Ecography</i> , 2012 , 35, 590-603 | 6.5 | 48 |
| 84 | Biodiversity and the mitigation of climate change through bioenergy: impacts of increased maize cultivation on farmland wildlife. <i>GCB Bioenergy</i> , 2011 , 3, 472-482 | 5.6 | 47 |
| 83 | Mosaic cycles in agricultural landscapes of Northwest Europe. <i>Basic and Applied Ecology</i> , 2007 , 8, 295-309.2 | 9.2 | 47 |

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|----|---|-----|----|
| 82 | Pattern, process, and function in landscape ecology and catchment hydrology – how can quantitative landscape ecology support predictions in ungauged basins?. <i>Hydrology and Earth System Sciences</i> , 2006 , 10, 967-979 | 5.5 | 47 |
| 81 | Challenges of simulating complex environmental systems at the landscape scale: A controversial dialogue between two cups of espresso. <i>Ecological Modelling</i> , 2009 , 220, 3481-3489 | 3 | 45 |
| 80 | Habitat selection by the pale-headed brush-finch (<i>Atlapetes pallidiceps</i>) in southern Ecuador: implications for conservation. <i>Biological Conservation</i> , 2004 , 118, 33-40 | 6.2 | 44 |
| 79 | Modelling distribution patterns of anecic, epigeic and endogeic earthworms at catchment-scale in agro-ecosystems. <i>Pedobiologia</i> , 2013 , 56, 23-31 | 1.7 | 43 |
| 78 | Plant species richness and functional groups have different effects on soil water content in a decade-long grassland experiment. <i>Journal of Ecology</i> , 2019 , 107, 127-141 | 6 | 42 |
| 77 | Factors influencing vegetation cover change in Mediterranean Central Chile (1975–2008). <i>Applied Vegetation Science</i> , 2011 , 14, 571-582 | 3.3 | 41 |
| 76 | Habitat selection of the globally threatened Aquatic Warbler <i>Acrocephalus paludicola</i> at the western margin of its breeding range and implications for management. <i>Ibis</i> , 2010 , 152, 347-358 | 1.9 | 40 |
| 75 | Process identification through rejection of model structures in a mid-mountainous rural catchment: observations of rainfall-runoff response, geophysical conditions and model inter-comparison. <i>Hydrological Processes</i> , 2009 , 23, 702-718 | 3.3 | 39 |
| 74 | Predicting spatial and temporal habitat use of rodents in a highly intensive agricultural area. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 189, 145-153 | 5.7 | 35 |
| 73 | Challenges of species distribution modeling belowground. <i>Journal of Plant Nutrition and Soil Science</i> , 2008 , 171, 325-337 | 2.3 | 34 |
| 72 | Mountain ecosystem response to global change. <i>Erdkunde</i> , 2011 , 65, 189-213 | 1.1 | 34 |
| 71 | Ecosystem Engineering by Plants on Wave-Exposed Intertidal Flats Is Governed by Relationships between Effect and Response Traits. <i>PLoS ONE</i> , 2015 , 10, e0138086 | 3.7 | 33 |
| 70 | Modelling habitat selection of the cryptic Hazel Grouse <i>Bonasa bonasia</i> in a montane forest. <i>Journal of Ornithology</i> , 2009 , 150, 717-732 | 1.5 | 33 |
| 69 | Downstream Migration of the European Eel (<i>Anguilla Anguilla</i>) in the Elbe River, Germany: Movement Patterns and the Potential Impact of Environmental Factors. <i>River Research and Applications</i> , 2016 , 32, 666-676 | 2.3 | 30 |
| 68 | Modelling the recent and potential future spatial distribution of the Ring Ouzel (<i>Turdus torquatus</i>) and Blackbird (<i>T. merula</i>) in Switzerland. <i>Journal of Ornithology</i> , 2008 , 149, 529-544 | 1.5 | 30 |
| 67 | Soil changes under different land-uses in the Cerrado of Mato Grosso, Brazil. <i>Geoderma Regional</i> , 2015 , 4, 31-43 | 2.7 | 29 |
| 66 | Predicting the species composition of <i>Nardus stricta</i> communities by logistic regression modelling. <i>Journal of Vegetation Science</i> , 2004 , 15, 623-634 | 3.1 | 29 |
| 65 | Simulating forest dynamics of a tropical montane forest in South Ecuador. <i>Erdkunde</i> , 2009 , 63, 347-364 | 1.1 | 29 |

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| 64 | Predicting the occurrence of Middle Spotted Woodpecker <i>Dendrocopos medius</i> on a regional scale, using forest inventory data. <i>Forest Ecology and Management</i> , 2009 , 257, 502-509 | 3.9 | 28 |
| 63 | Identifying suitable multifunctional restoration areas for Forest Landscape Restoration in Central Chile. <i>Ecosphere</i> , 2017 , 8, e01644 | 3.1 | 26 |
| 62 | Understanding species and community response to environmental change â A functional trait perspective. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 145, 1-4 | 5.7 | 25 |
| 61 | Connectivity compensates for low habitat quality and small patch size in the butterfly <i>Cupido minimus</i> . <i>Ecological Research</i> , 2008 , 23, 259-269 | 1.9 | 25 |
| 60 | Vegetation as self-adaptive coastal protection: Reduction of current velocity and morphologic plasticity of a brackish marsh pioneer. <i>Ecology and Evolution</i> , 2016 , 6, 1579-89 | 2.8 | 25 |
| 59 | Biological traits explain bryophyte species distributions and responses to forest fragmentation and climatic variation. <i>Journal of Ecology</i> , 2018 , 106, 1700-1713 | 6 | 24 |
| 58 | Controls of event-based pesticide leaching in natural soils: A systematic study based on replicated field scale irrigation experiments. <i>Journal of Hydrology</i> , 2014 , 512, 528-539 | 6 | 24 |
| 57 | Temporal and spatial dynamic of stool uprooting in abandoned chestnut coppice forests. <i>Forest Ecology and Management</i> , 2006 , 235, 88-95 | 3.9 | 24 |
| 56 | Predicting event response in a nested catchment with generalized linear models and a distributed watershed model. <i>Hydrological Processes</i> , 2012 , 26, 3749-3769 | 3.3 | 23 |
| 55 | A landscape model for quantifying the trade-off between conservation needs and economic constraints in the management of a semi-natural grassland community. <i>Biological Conservation</i> , 2008 , 141, 719-732 | 6.2 | 22 |
| 54 | Towards mapping soil carbon landscapes: Issues of sampling scale and transferability. <i>Soil and Tillage Research</i> , 2016 , 156, 194-208 | 6.5 | 21 |
| 53 | Perspectives in modelling earthworm dynamics and their feedbacks with abiotic soil properties. <i>Applied Soil Ecology</i> , 2012 , 58, 29-36 | 5 | 20 |
| 52 | Integrated Grid Based Ecological and Economic (INGRID) landscape model â A tool to support landscape management decisions. <i>Environmental Modelling and Software</i> , 2007 , 22, 177-187 | 5.2 | 20 |
| 51 | How can we bring together empiricists and modellers in functional biodiversity research?. <i>Basic and Applied Ecology</i> , 2013 , 14, 93-101 | 3.2 | 18 |
| 50 | Habitat quality matters for the distribution of an endangered leaf beetle and its egg parasitoid in a fragmented landscape. <i>Journal of Insect Conservation</i> , 2009 , 13, 165-175 | 2.1 | 18 |
| 49 | Cowbird parasitism of Pale-headed Brush-finch <i>Atlapetes pallidiceps</i> : implications for conservation and management. <i>Bird Conservation International</i> , 2004 , 14, 63-75 | 1.7 | 17 |
| 48 | Habitat suitability models for the conservation of thermophilic grasshoppers and bush cricketsâsimple or complex?. <i>Journal of Insect Conservation</i> , 2007 , 11, 221-240 | 2.1 | 16 |
| 47 | The âHidden UrbanizationâTrends of Impervious Surface in Low-Density Housing Developments and Resulting Impacts on the Water Balance. <i>Frontiers in Environmental Science</i> , 2019 , 7, | 4.8 | 15 |

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| 46 | Environmental filtering predicts plant-community trait distribution and diversity: Kettle holes as models of meta-community systems. <i>Ecology and Evolution</i> , 2019 , 9, 1898-1910 | 2.8 | 15 |
| 45 | Climate change shifts environmental space and limits transferability of treeline models. <i>Ecography</i> , 2014 , 37, 321-335 | 6.5 | 15 |
| 44 | Variability of earthworm-induced biopores and their hydrological effectiveness in space and time. <i>Pedobiologia</i> , 2018 , 71, 8-19 | 1.7 | 15 |
| 43 | The impact of crop parameters and surrounding habitats on different pollinator group abundance on agricultural fields. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 243, 55-66 | 5.7 | 13 |
| 42 | Accumulation and variability of maize pollen deposition on leaves of European Lepidoptera host plants and relation to release rates and deposition determined by standardised technical sampling. <i>Environmental Sciences Europe</i> , 2016 , 28, 14 | 5 | 13 |
| 41 | Predicting Ellenberg's soil moisture indicator value in the Bavarian Alps using additive georegression. <i>Applied Vegetation Science</i> , 2013 , 16, 110-121 | 3.3 | 13 |
| 40 | The generality of habitat suitability models: A practical test with two insect groups. <i>Basic and Applied Ecology</i> , 2007 , 8, 310-320 | 3.2 | 13 |
| 39 | First genetic evidence of illegal trade in endangered European eel (<i>Anguilla anguilla</i>) from Europe to Asia. <i>Conservation Genetics Resources</i> , 2016 , 8, 533-537 | 0.8 | 11 |
| 38 | Plant distribution and stand characteristics in brackish marshes: Unravelling the roles of abiotic factors and interspecific competition. <i>Estuarine, Coastal and Shelf Science</i> , 2017 , 196, 237-247 | 2.9 | 11 |
| 37 | Biodiversity research: data without theory—theory without data. <i>Frontiers in Ecology and Evolution</i> , 2015 , 3, | 3.7 | 11 |
| 36 | Spatial stratification of various Lyme disease spirochetes in a Central European site. <i>FEMS Microbiology Ecology</i> , 2013 , 83, 738-44 | 4.3 | 11 |
| 35 | Annual plants under cyclic disturbance regime: better understanding through model aggregation 2008 , 18, 2000-15 | | 11 |
| 34 | Layering Action Situations to Integrate Spatial Scales, Resource Linkages, and Change over Time: The Case of Groundwater Management in Agricultural Hubs in Germany. <i>Policy Studies Journal</i> , 2019 , | 3.6 | 10 |
| 33 | Open access solutions for biodiversity journals: Do not replace one problem with another. <i>Diversity and Distributions</i> , 2019 , 25, 5-8 | 5 | 10 |
| 32 | Impact of Temporal Macropore Dynamics on Infiltration: Field Experiments and Model Simulations. <i>Vadose Zone Journal</i> , 2018 , 17, 170147 | 2.7 | 10 |
| 31 | Effects of functional traits on the prediction accuracy of species richness models. <i>Diversity and Distributions</i> , 2016 , 22, 905-917 | 5 | 9 |
| 30 | Biotic controls on shallow translational landslides. <i>Earth Surface Processes and Landforms</i> , 2013 , 38, 198-212 | 3.7 | 9 |
| 29 | Predicting urban cold-air paths using boosted regression trees. <i>Landscape and Urban Planning</i> , 2020 , 201, 103843 | 7.7 | 9 |

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| 28 | Regionalizing Indicator Values for Soil Reaction in the Bavarian Alps âfrom Averages to Multivariate Spectra. <i>Folia Geobotanica</i> , 2014 , 49, 385-405 | 1.4 | 7 |
| 27 | Habitat models and their transfer for single and multi species groups: a case study of carabids in an alluvial forest. <i>Ecography</i> , 2008 , 24, 483-496 | 6.5 | 7 |
| 26 | Process, correlation and parameter fitting in species distribution models: a response to Kriticos et al. <i>Journal of Biogeography</i> , 2013 , 40, 612-613 | 4.1 | 6 |
| 25 | Facilitating political decisions using species distribution models to assess restoration measures in heavily modified estuaries. <i>Marine Pollution Bulletin</i> , 2016 , 110, 250-260 | 6.7 | 6 |
| 24 | The âGartenAppâAssessing and Communicating the Ecological Potential of Private Gardens. <i>Sustainability</i> , 2020 , 12, 95 | 3.6 | 5 |
| 23 | Potential effects of tillage and field borders on within-field spatial distribution patterns of earthworms. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 228, 82-90 | 5.7 | 5 |
| 22 | Contrasting elevational responses of regularly flooded marsh plants in navigable estuaries. <i>Ecology and Hydrobiology</i> , 2019 , 19, 38-53 | 2.8 | 5 |
| 21 | Which abiotic filters shape earthworm distribution patterns at the catchment scale?. <i>European Journal of Soil Science</i> , 2016 , 67, 431-442 | 3.4 | 5 |
| 20 | Novel model coupling approach for resilience analysis of coastal plant communities 2018 , 28, 1640-1654 | | 4 |
| 19 | Which factors and processes drive the spatio-temporal dynamics of brackish marshes?âInsights from development and parameterisation of a mechanistic vegetation model. <i>Ecological Modelling</i> , 2017 , 363, 122-136 | 3 | 4 |
| 18 | Macroecology as a hub between research disciplines: Opportunities, challenges and possible ways forward. <i>Journal of Biogeography</i> , 2020 , 47, 13-15 | 4.1 | 4 |
| 17 | Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. <i>Scientific Data</i> , 2021 , 8, 136 | 8.2 | 4 |
| 16 | Transdisciplinary knowledge management: A key but underdeveloped skill in EBM decision-making. <i>Marine Policy</i> , 2020 , 119, 104020 | 3.5 | 3 |
| 15 | Eresus kollari (Araneae: Eresidae) calls for heathland management. <i>Journal of Arachnology</i> , 2011 , 39, 384-392 | 1.1 | 3 |
| 14 | Livestock Farming at the Expense of Water Resources? The WaterâEnergyâFood Nexus in Regions with Intensive Livestock Farming. <i>Water (Switzerland)</i> , 2019 , 11, 2330 | 3 | 3 |
| 13 | How Much Suitable Habitat is Left for the Last Known Population of the Pale-Headed Brush-Finch?. <i>Condor</i> , 2004 , 106, 429-434 | 2.1 | 2 |
| 12 | HOW MUCH SUITABLE HABITAT IS LEFT FOR THE LAST KNOWN POPULATION OF THE PALE-HEADED BRUSH-FINCH?. <i>Condor</i> , 2004 , 106, 429 | 2.1 | 2 |
| 11 | TOPOI âA method for analysing settlement unitsâ and their linkages in an urbanârural fabric. <i>Environment and Planning B: Urban Analytics and City Science</i> , 239980832110438 | 2 | 2 |

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| 10 | Predicting the species composition of <i>Nardus stricta</i> communities by logistic regression modelling. <i>Journal of Vegetation Science</i> , 2004 , 15, 623 | 3.1 | 2 |
| 9 | Making the case for gardens: Estimating the contribution of urban gardens to habitat provision and connectivity based on hedgehogs (<i>Erinaceus europaeus</i>). <i>Landscape and Urban Planning</i> , 2022 , 220, 104347 | 7.7 | 2 |
| 8 | Natural Landslides Which Impact Current Regulating Services: Environmental Preconditions and Modeling. <i>Ecological Studies</i> , 2013 , 153-170 | 1.1 | 2 |
| 7 | Disentangling the effects of host resources, local, and landscape variables on the occurrence pattern of the dusky large blue butterfly (<i>Phengaris nausithous</i>) in upland grasslands. <i>Journal of Insect Conservation</i> , 2020 , 24, 327-341 | 2.1 | 2 |
| 6 | Water Ecosystem Services Footprint of agricultural production in Central Italy. <i>Science of the Total Environment</i> , 2021 , 797, 149095 | 10.2 | 2 |
| 5 | Detecting dominant changes in irregularly sampled multivariate water quality data sets. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 4401-4424 | 5.5 | 1 |
| 4 | Using Artificial Seagrass for Promoting Positive Feedback Mechanisms in Seagrass Restoration. <i>Frontiers in Marine Science</i> , 2021 , 8, | 4.5 | 1 |
| 3 | Spatiotemporally explicit prediction of future ecosystem service provisioning in response to climate change, sea level rise, and adaptation strategies. <i>Ecosystem Services</i> , 2022 , 54, 101414 | 6.1 | 0 |
| 2 | Basic reproduction number of Lyme disease spirochaetes – modelling various genospecies-host associations in Central Europe. <i>Ecological Modelling</i> , 2019 , 411, 108821 | 3 | |
| 1 | Climate Change and Its Impact on Current and Future Vegetation Dynamics and Carbon Cycling. <i>Ecological Studies</i> , 2013 , 331-341 | 1.1 | |