Boris SchrÃ¶der

List of Publications by Year
in descending order

121 papers	16,991 citations	61977 43 h-index	17104 122 g-index
125 all docs	125 docs citations	125 times ranked	24171 citing authors

#	Article	IF	Citations
1	Collinearity: a review of methods to deal with it and a simulation study evaluating their performance. Ecography, 2013, 36, 27-46.	4.5	6,250
2	Methods to account for spatial autocorrelation in the analysis of species distributional data: a review. Ecography, 2007, 30, 609-628.	4.5	2,522
3	Crossâ€validation strategies for data with temporal, spatial, hierarchical, or phylogenetic structure. Ecography, 2017, 40, 913-929.	4.5	1,092
4	The importance of correcting for sampling bias in MaxEnt species distribution models. Diversity and Distributions, 2013, 19, 1366-1379.	4.1	836
5	Correlation and process in species distribution models: bridging a dichotomy. Journal of Biogeography, 2012, 39, 2119-2131.	3.0	526
6	A standard protocol for reporting species distribution models. Ecography, 2020, 43, 1261-1277.	4.5	397
7	How can statistical models help to determine driving factors of landslides?. Ecological Modelling, 2012, 239, 27-39.	2.5	258
8	How to understand speciesâ€™ niches and range dynamics: a demographic research agenda for biogeography. Journal of Biogeography, 2012, 39, 2146-2162.	3.0	249
9	Global distribution of earthworm diversity. Science, 2019, 366, 480-485.	12.6	248
10	The virtual ecologist approach: simulating data and observers. Oikos, 2010, 119, 622-635.	2.7	242
11	Model averaging in ecology: a review of Bayesian, informationâ€theoretic, and tactical approaches for predictive inference. Ecological Monographs, 2018, 88, 485-504.	5.4	209
12	COMPONENTS OF UNCERTAINTY IN SPECIES DISTRIBUTION ANALYSIS: A CASE STUDY OF THE GREAT GREY SHRIKE. Ecology, 2008, 89, 3371-3386.	3.2	178
13	Integrating movement ecology with biodiversity research - exploring new avenues to address spatiotemporal biodiversity dynamics. Movement Ecology, 2013, 1, 6.	2.8	169
14	Modelling habitat and spatial distribution of an endangered longhorn beetle â€" A case study for saproxylic insect conservation. Biological Conservation, 2007, 137, 372-381.	4.1	142
15	Bark Beetles Increase Biodiversity While Maintaining Drinking Water Quality. Conservation Letters, 2015, 8, 272-281.	5.7	140
16	The Brazilian Cerrado: assessment of water and soil degradation in catchments under intensive agricultural use. Ecohydrology, 2015, 8, 1154-1180.	2.4	137
17	Predicting to new environments: tools for visualizing model behaviour and impacts on mapped distributions. Diversity and Distributions, 2012, 18, 628-634.	4.1	136
18	Static species distribution models in dynamically changing systems: how good can predictions really be?. Ecography, 2009, 32, 733-744.	4.5	121

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19	Constrain to perform: Regularization of habitat models. Ecological Modelling, 2006, 193, 675-690.	2.5	115
20	Analysis of patternâ€“process interactions based on landscape modelsâ€"Overview, general concepts, and methodological issues. Ecological Modelling, 2006, 199, 505-516.	2.5	115
21	Estimation of suspended sediment concentration and yield using linear models, random forests and quantile regression forests. Hydrological Processes, 2008, 22, 4892-4904.	2.6	103
22	Spatial disaggregation of complex soil map units: A decision-tree based approach in Bavarian forest soils. Geoderma, 2012, 185-186, 37-47.	5.1	90
23	Ecologicalâ€“economic optimization of biodiversity conservation under climate change. Nature Climate Change, 2011, 1, 355-359.	18.8	85
24	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. Hydrology and Earth System Sciences, 2014, 18, 4635-4655.	4.9	78
25	Habitat models and habitat connectivity analysis for butterflies and burnet moths â€“ The example of Zygaena carniolica and Coenonympha arcania. Biological Conservation, 2005, 126, 247-259.	4.1	75
26	Linking spatial earthworm distribution to macropore numbers and hydrological effectiveness. Ecohydrology, 2014, 7, 401-408.	2.4	72
27	Plant species richness and functional groups have different effects on soil water content in a decadeâ€long grassland experiment. Journal of Ecology, 2019, 107, 127-141.	4.0	69
28	Habitat models and their transfer for single and multi species groups: a case study of carabids in an alluvial forest. Ecography, 2001, 24, 483-496.	4.5	69
29	Decomposing environmental, spatial, and spatiotemporal components of species distributions. Ecological Monographs, 2011, 81, 329-347.	5.4	67
30	A functional entity approach to predict soil erosion processes in a small Plio-Pleistocene Mediterranean catchment in Northern Chianti, Italy. Geomorphology, 2011, 125, 530-540.	2.6	66
31	Assessing species vulnerability to climate and land use change: the case of the Swiss breeding birds. Diversity and Distributions, 2014, 20, 708-719.	4.1	66
32	Title is missing!. Landscape Ecology, 2002, 17, 57-70.	4.2	63
33	Habitat at the mountain tops: how long can Rock Ptarmigan (Lagopus muta helvetica) survive rapid climate change in the Swiss Alps? A multi-scale approach. Journal of Ornithology, 2012, 153, 891-905.	1.1	60
34	Modelling distribution patterns of anecic, epigeic and endogeic earthworms at catchment-scale in agro-ecosystems. Pedobiologia, 2013, 56, 23-31.	1.2	58
35	Pattern, process, and function in landscape ecology and catchment hydrology â€“ how can quantitative landscape ecology support predictions in ungauged basins?. Hydrology and Earth System Sciences, 2006, 10, 967-979.	4.9	57
36	Uncertainty in predictions of range dynamics: black grouse climbing the Swiss Alps. Ecography, 2012, 35, 590-603.	4.5	57

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37	Biodiversity and the mitigation of climate change through bioenergy: impacts of increased maize cultivation on farmland wildlife. GCB Bioenergy, 2011, 3, 472-482.	5.6	53
38	Factors influencing vegetation cover change in Mediterranean Central Chile (1975â€“2008). Applied Vegetation Science, 2011, 14, 571-582.	1.9	52
39	Habitat selection by the pale-headed brush-finch (Atlapetes pallidiceps) in southern Ecuador: implications for conservation. Biological Conservation, 2004, 118, 33-40.	4.1	50
40	Mosaic cycles in agricultural landscapes of Northwest Europe. Basic and Applied Ecology, 2007, 8, 295-309.	2.7	49
41	Challenges of simulating complex environmental systems at the landscape scale: A controversial dialogue between two cups of espresso. Ecological Modelling, 2009, 220, 3481-3489.	2.5	47
42	Process identification through rejection of model structures in a midâ€mountainous rural catchment: observations of rainfallâ€“runoff response, geophysical conditions and model interâ€comparison. Hydrological Processes, 2009, 23, 702-718.	2.6	46
43	Soil changes under different land-uses in the Cerrado of Mato Grosso, Brazil. Geoderma Regional, 2015, 4, 31-43.	2.1	46
44	Habitat selection of the globally threatened Aquatic Warbler <i>Acrocephalus paludicola</i> at the western margin of its breeding range and implications for management. Ibis, 2010, 152, 347-358.	1.9	45
45	Predicting spatial and temporal habitat use of rodents in a highly intensive agricultural area. Agriculture, Ecosystems and Environment, 2014, 189, 145-153.	5.3	45
46	Ecosystem Engineering by Plants on Wave-Exposed Intertidal Flats Is Governed by Relationships between Effect and Response Traits. PLoS ONE, 2015, 10, e0138086.	2.5	44
47	Challenges of species distribution modeling belowground. Journal of Plant Nutrition and Soil Science, 2008, 171, 325-337.	1.9	43
48	Downstream Migration of the European Eel (<i>Anguilla Anguilla</i>) in the Elbe River, Germany: Movement Patterns and the Potential Impact of Environmental Factors. River Research and Applications, 2016, 32, 666-676.	1.7	41
49	Mountain ecosystem response to global change. Erdkunde, 2011, 65, 189-213.	0.8	41
50	The â€œHidden Urbanizationâ€ Trends of Impervious Surface in Low-Density Housing Developments and Resulting Impacts on the Water Balance. Frontiers in Environmental Science, 2019, 7, .	3.3	39
51	Modelling habitat selection of the cryptic Hazel Grouse Bonasa bonasia in a montane forest. Journal of Ornithology, 2009, 150, 717-732.	1.1	37
52	Modelling the recent and potential future spatial distribution of the Ring Ouzel (Turdus torquatus) and Blackbird (T. merula) in Switzerland. Journal of Ornithology, 2008, 149, 529-544.	1.1	36
53	Biological traits explain bryophyte species distributions and responses to forest fragmentation and climatic variation. Journal of Ecology, 2018, 106, 1700-1713.	4.0	36
54	Predicting event response in a nested catchment with generalized linear models and a distributed watershed model. Hydrological Processes, 2012, 26, 3749-3769.	2.6	34

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55	Identifying suitable multifunctional restoration areas for Forest Landscape Restoration in Central Chile. Ecosphere, 2017, 8, e01644.	2.2	34
56	Predicting the occurrence of Middle Spotted Woodpecker Dendrocopos medius on a regional scale, using forest inventory data. Forest Ecology and Management, 2009, 257, 502-509.	3.2	33
57	Vegetation as selfâ€adaptive coastal protection: Reduction of current velocity and morphologic plasticity of a brackish marsh pioneer. Ecology and Evolution, 2016, 6, 1579-1589.	1.9	33
58	Predicting the species composition of Nardus stricta communities by logistic regression modelling. Journal of Vegetation Science, 2004, 15, 623-634.	2.2	32
59	Controls of event-based pesticide leaching in natural soils: A systematic study based on replicated field scale irrigation experiments. Journal of Hydrology, 2014, 512, 528-539.	5.4	32
60	Towards mapping soil carbon landscapes: Issues of sampling scale and transferability. Soil and Tillage Research, 2016, 156, 194-208.	5.6	32
61	Simulating forest dynamics of a tropical montane forest in South Ecuador. Erdkunde, 2009, 63, 347-364.	0.8	32
62	Understanding species and community response to environmental change â€" A functional trait perspective. Agriculture, Ecosystems and Environment, 2011, 145, 1-4.	5.3	29
63	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. Scientific Data, 2021, 8, 136.	5.3	29
64	Connectivity compensates for low habitat quality and small patch size in the butterfly Cupido minimus. Ecological Research, 2008, 23, 259-269.	1.5	27
65	Temporal and spatial dynamic of stool uprooting in abandoned chestnut coppice forests. Forest Ecology and Management, 2006, 235, 88-95.	3.2	26
66	Integrated Grid Based Ecological and Economic (INGRID) landscape model â€" A tool to support landscape management decisions. Environmental Modelling and Software, 2007, 22, 177-187.	4.5	26
67	A landscape model for quantifying the trade-off between conservation needs and economic constraints in the management of a semi-natural grassland community. Biological Conservation, 2008, 141, 719-732.	4.1	24
68	How can we bring together empiricists and modellers in functional biodiversity research?. Basic and Applied Ecology, 2013, 14, 93-101.	2.7	24
69	Layering Action Situations to Integrate Spatial Scales, Resource Linkages, and Change over Time: The Case of Groundwater Management in Agricultural Hubs in Germany. Policy Studies Journal, 2022, 50, 111-142.	5.1	23
70	Environmental filtering predicts plantâ€community trait distribution and diversity: Kettle holes as models of metaâ€community systems. Ecology and Evolution, 2019, 9, 1898-1910.	1.9	22
71	Perspectives in modelling earthworm dynamics and their feedbacks with abiotic soil properties. Applied Soil Ecology, 2012, 58, 29-36.	4.3	21
72	Cowbird parasitism of Pale-headed Brush-finch Atlapetes pallidiceps: implications for conservation and management. Bird Conservation International, 2004, 14, 63-75.	1.3	20

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73	Habitat quality matters for the distribution of an endangered leaf beetle and its egg parasitoid in a fragmented landscape. Journal of Insect Conservation, 2009, 13, 165-175.	1.4	20
74	Variability of earthworm-induced biopores and their hydrological effectiveness in space and time. Pedobiologia, 2018, 71, 8-19.	1.2	20
75	Predicting urban cold-air paths using boosted regression trees. Landscape and Urban Planning, 2020, 201, 103843.	7.5	20
76	Open access solutions for biodiversity journals: Do not replace one problem with another. Diversity and Distributions, 2019, 25, 5-8.	4.1	19
77	The generality of habitat suitability models: A practical test with two insect groups. Basic and Applied Ecology, 2007, 8, 310-320.	2.7	18
78	Habitat models and their transfer for single and multi species groups: a case study of carabids in an alluvial forest. Ecography, 2001, 24, 483-496.	4.5	18
79	Climate change shifts environmental space and limits transferability of treeline models. Ecography, 2014, 37, 321-335.	4.5	18
80	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. Environmental Sciences Europe, 2016, 28, 14.	5.5	18
81	Habitat suitability models for the conservation of thermophilic grasshoppers and bush cricketsâ€"simple or complex?. Journal of Insect Conservation, 2007, 11, 221-240.	1.4	17
82	The impact of crop parameters and surrounding habitats on different pollinator group abundance on agricultural fields. Agriculture, Ecosystems and Environment, 2017, 243, 55-66.	5.3	16
83	Plant distribution and stand characteristics in brackish marshes: Unravelling the roles of abiotic factors and interspecific competition. Estuarine, Coastal and Shelf Science, 2017, 196, 237-247.	2.1	16
84	Impact of Temporal Macropore Dynamics on Infiltration: Field Experiments and Model Simulations. Vadose Zone Journal, 2018, 17, 1-15.	2.2	16
85	First genetic evidence of illegal trade in endangered European eel (Anguilla anguilla) from Europe to Asia. Conservation Genetics Resources, 2016, 8, 533-537.	0.8	15
86	Predicting <scp>E</scp>llenberg's soil moisture indicator value in the <scp>B</scp>avarian <scp>A</scp>lps using additive georegression. Applied Vegetation Science, 2013, 16, 110-121.	1.9	14
87	Spatial stratification of various Lyme disease spirochetes in a Central European site. FEMS Microbiology Ecology, 2013, 83, 738-744.	2.7	14
88	Making the case for gardens: Estimating the contribution of urban gardens to habitat provision and connectivity based on hedgehogs (Erinaceus europaeus). Landscape and Urban Planning, 2022, 220, 104347.	7.5	14
89	ANNUAL PLANTS UNDER CYCLIC DISTURBANCE REGIME: BETTER UNDERSTANDING THROUGH MODEL AGGREGATION. , 2008, 18, 2000-2015.		13
90	Biodiversity research: data without theoryÃ¢â,¬â€theory without data. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	13

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91	Effects of functional traits on the prediction accuracy of species richness models. Diversity and Distributions, 2016, 22, 905-917.	4.1	13
92	Facilitating political decisions using species distribution models to assess restoration measures in heavily modified estuaries. Marine Pollution Bulletin, 2016, 110, 250-260.	5.0	12
93	Biotic controls on shallow translational landslides. Earth Surface Processes and Landforms, 2013, 38, 198-212.	2.5	11
94	Contrasting elevational responses of regularly flooded marsh plants in navigable estuaries. Ecohydrology and Hydrobiology, 2019, 19, 38-53.	2.3	11
95	Predicting the species composition of Nardus stricta communities by logistic regression modelling. Journal of Vegetation Science, 2004, 15, 623.	2.2	11
96	Reply to the EFSA (2016) on the relevance of recent publications (Hofmann et al. 2014, 2016) on environmental risk assessment and management of Bt-maize events (MON810, Bt11 and 1507). Environmental Sciences Europe, 2017, 29, 12.	5.5	10
97	Water Ecosystem Services Footprint of agricultural production in Central Italy. Science of the Total Environment, 2021, 797, 149095.	8.0	9
98	Process, correlation and parameter fitting in species distribution models: a response to Kriticos <i>etÂal</i>. Journal of Biogeography, 2013, 40, 612-613.	3.0	8
99	Regionalizing Indicator Values for Soil Reaction in the Bavarian Alps â€“ from Averages to Multivariate Spectra. Folia Geobotanica, 2014, 49, 385-405.	0.9	8
100	Using Artificial Seagrass for Promoting Positive Feedback Mechanisms in Seagrass Restoration. Frontiers in Marine Science, 2021, 8, .	2.5	8
101	Macroecology as a hub between research disciplines: Opportunities, challenges and possible ways forward. Journal of Biogeography, 2020, 47, 13-15.	3.0	7
102	The â€˜GartenAppâ€™: Assessing and Communicating the Ecological Potential of Private Gardens. Sustainability, 2020, 12, 95.	3.2	7
103	Which factors and processes drive the spatio-temporal dynamics of brackish marshes?â€”Insights from development and parameterisation of a mechanistic vegetation model. Ecological Modelling, 2017, 363, 122-136.	2.5	6
104	Novel model coupling approach for resilience analysis of coastal plant communities. Ecological Applications, 2018, 28, 1640-1654.	3.8	6
105	Transdisciplinary knowledge management: A key but underdeveloped skill in EBM decision-making. Marine Policy, 2020, 119, 104020.	3.2	6
106	TOPOI â€“ A method for analysing settlement units and their linkages in an urbanâ€“rural fabric. Environment and Planning B: Urban Analytics and City Science, 2022, 49, 1663-1681.	2.0	6
107	Eresus kollari (Araneae: Eresidae) calls for heathland management. Journal of Arachnology, 2011, 39, 384-392.	0.5	5
108	Which abiotic filters shape earthworm distribution patterns at the catchment scale?. European Journal of Soil Science, 2016, 67, 431-442.	3.9	5

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109	Potential effects of tillage and field borders on within-field spatial distribution patterns of earthworms. Agriculture, Ecosystems and Environment, 2016, 228, 82-90.	5.3	5
110	Livestock Farming at the Expense of Water Resources? The Waterâ€“Energyâ€“Food Nexus in Regions with Intensive Livestock Farming. Water (Switzerland), 2019, 11, 2330.	2.7	5
111	Spatiotemporally explicit prediction of future ecosystem service provisioning in response to climate change, sea level rise, and adaptation strategies. Ecosystem Services, 2022, 54, 101414.	5.4	5
112	Projected shifts in deadwood bryophyte communities under national climate and forestry scenarios benefit large competitors and impair small species. Journal of Biogeography, 2021, 48, 3170-3184.	3.0	4
113	Impacts of Forest Management on Forest Bird Occurrence Patternsâ€"A Case Study in Central Europe. Frontiers in Forests and Global Change, 2022, 5, .	2.3	4
114	How Much Suitable Habitat is Left for the Last Known Population of the Pale-Headed Brush-Finch?. Condor, 2004, 106, 429-434.	1.6	3
115	HOW MUCH SUITABLE HABITAT IS LEFT FOR THE LAST KNOWN POPULATION OF THE PALE-HEADED BRUSH-FINCH?. Condor, 2004, 106, 429.	1.6	3
116	Natural Landslides Which Impact Current Regulating Services: Environmental Preconditions and Modeling. Ecological Studies, 2013, , 153-170.	1.2	3
117	Disentangling the effects of host resources, local, and landscape variables on the occurrence pattern of the dusky large blue butterfly (Phengaris nausithous) in upland grasslands. Journal of Insect Conservation, 2020, 24, 327-341.	1.4	2
118	Comparing correlative and process-based modelling approaches in a boreal forest identifies important areas for model development. Silva Fennica, 2017, 51, .	1.3	2
119	Detecting dominant changes in irregularly sampled multivariate water quality data sets. Hydrology and Earth System Sciences, 2018, 22, 4401-4424.	4.9	1
120	Basic reproduction number of Lyme disease spirochaetes â€" modelling various genospecies-host associations in Central Europe. Ecological Modelling, 2019, 411, 108821.	2.5	1
121	Climate Change and Its Impact on Current and Future Vegetation Dynamics and Carbon Cycling. Ecological Studies, 2013, , 331-341.	1.2	1