

Sami Domisch

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.

42
papers

1,816
citations

20
h-index

42
g-index

50
ext. papers

2,532
ext. citations

5.8
avg, IF

5.05
L-index

#	Paper	IF	Citations
42	The role of artificial intelligence in achieving the Sustainable Development Goals. <i>Nature Communications</i> , 2020 , 11, 233	17.4	349
41	Cryptic biodiversity loss linked to global climate change. <i>Nature Climate Change</i> , 2011 , 1, 313-318	21.4	244
40	A suite of global, cross-scale topographic variables for environmental and biodiversity modeling. <i>Scientific Data</i> , 2018 , 5, 180040	8.2	165
39	Climate-change winners and losers: stream macroinvertebrates of a submontane region in Central Europe. <i>Freshwater Biology</i> , 2011 , 56, 2009-2020	3.1	132
38	Modelling distribution in European stream macroinvertebrates under future climates. <i>Global Change Biology</i> , 2013 , 19, 752-62	11.4	128
37	Near-global freshwater-specific environmental variables for biodiversity analyses in 1 km resolution. <i>Scientific Data</i> , 2015 , 2, 150073	8.2	81
36	Cross-realm assessment of climate change impacts on species abundance trends. <i>Nature Ecology and Evolution</i> , 2017 , 1, 67	12.3	55
35	Application of species distribution models in stream ecosystems: the challenges of spatial and temporal scale, environmental predictors and species occurrence data. <i>Fundamental and Applied Limnology</i> , 2015 , 186, 45-61	1.9	55
34	Local environment and space drive multiple facets of stream macroinvertebrate beta diversity. <i>Journal of Biogeography</i> , 2018 , 45, 2744-2754	4.1	55
33	Low mountain ranges: summit traps for montane freshwater species under climate change. <i>Biodiversity and Conservation</i> , 2011 , 20, 3133-3146	3.4	53
32	How to make ecological models useful for environmental management. <i>Ecological Modelling</i> , 2019 , 411, 108784	3	44
31	Choice of study area and predictors affect habitat suitability projections, but not the performance of species distribution models of stream biota. <i>Ecological Modelling</i> , 2013 , 257, 1-10	3	44
30	Modelling of riverine ecosystems by integrating models: conceptual approach, a case study and research agenda. <i>Journal of Biogeography</i> , 2012 , 39, 2253-2263	4.1	40
29	Continental-scale conservation prioritization of African dragonflies. <i>Biological Conservation</i> , 2013 , 157, 245-254	6.2	32
28	Safeguarding freshwater life beyond 2020: Recommendations for the new global biodiversity framework from the European experience. <i>Conservation Letters</i> , 2021 , 14, e12771	6.9	27
27	Geomorpho90m, empirical evaluation and accuracy assessment of global high-resolution geomorphometric layers. <i>Scientific Data</i> , 2020 , 7, 162	8.2	26
26	Cost-effective restoration and conservation planning in Green and Blue Infrastructure designs. A case study on the Intercontinental Biosphere Reserve of the Mediterranean: Andalusia (Spain) - Morocco. <i>Science of the Total Environment</i> , 2019 , 652, 1463-1473	10.2	23

25	Projected effects of Climate-change-induced flow alterations on stream macroinvertebrate abundances. <i>Ecology and Evolution</i> , 2018 , 8, 3393-3409	2.8	22
24	Model-based integration of observed and expert-based information for assessing the geographic and environmental distribution of freshwater species. <i>Ecography</i> , 2016 , 39, 1078-1088	6.5	22
23	Assessing whether artificial intelligence is an enabler or an inhibitor of sustainability at indicator level. <i>Transportation Engineering</i> , 2021 , 4, 100064	3	22
22	Estimating nitrogen and phosphorus concentrations in streams and rivers, within a machine learning framework. <i>Scientific Data</i> , 2020 , 7, 161	8.2	19
21	Combining eight research areas to foster the uptake of ecosystem-based management in fresh waters. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019 , 29, 1161-1173	2.6	15
20	Using streamflow observations to estimate the impact of hydrological regimes and anthropogenic water use on European stream macroinvertebrate occurrences. <i>Ecohydrology</i> , 2017 , 10, e1895	2.5	15
19	Spatially explicit species distribution models: A missed opportunity in conservation planning?. <i>Diversity and Distributions</i> , 2019 , 25, 758-769	5	15
18	Current and future latitudinal gradients in stream macroinvertebrate richness across North America. <i>Freshwater Science</i> , 2014 , 33, 1136-1147	2	14
17	Range shifts of a relict Himalayan dragonfly in the Hindu Kush Himalayan region under climate change scenarios. <i>International Journal of Odonatology</i> , 2012 , 15, 209-222	0.5	13
16	Emerging semantics to link phenotype and environment. <i>PeerJ</i> , 2015 , 3, e1470	3.1	13
15	Social equity shapes zone-selection: Balancing aquatic biodiversity conservation and ecosystem services delivery in the transboundary Danube River Basin. <i>Science of the Total Environment</i> , 2019 , 656, 797-807	10.2	13
14	Cross-taxa generalities in the relationship between population abundance and ambient temperatures. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	12
13	Elevation, aspect, and local environment jointly determine diatom and macroinvertebrate diversity in the Cangshan Mountain, Southwest China. <i>Ecological Indicators</i> , 2020 , 108, 105618	5.8	12
12	Twenty-five essential research questions to inform the protection and restoration of freshwater biodiversity. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021 , 31, 2632-2653	2.6	11
11	Improving the reliability of eDNA data interpretation. <i>Molecular Ecology Resources</i> , 2021 , 21, 1422-1433	8.4	9
10	A high-resolution streamflow and hydrological metrics dataset for ecological modeling using a regression model. <i>Scientific Data</i> , 2018 , 5, 180224	8.2	9
9	A global agenda for advancing freshwater biodiversity research. <i>Ecology Letters</i> , 2021 ,	10	6
8	Revisiting global trends in freshwater insect biodiversity. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021 , 8, e1506	5.7	6

7	From topography to hydrology-The modifiable area unit problem impacts freshwater species distribution models. <i>Ecology and Evolution</i> , 2020 , 10, 2956-2968	2.8	3
6	Ecological models in freshwater ecosystems. <i>Fundamental and Applied Limnology</i> , 2015 , 186, 1-3	1.9	2
5	Climate model variability leads to uncertain predictions of the future abundance of stream macroinvertebrates. <i>Scientific Reports</i> , 2020 , 10, 2520	4.9	2
4	Severity Multipliers as a Methodology to Explore Potential Effects of Climate Change on Stream Bioassessment Programs. <i>Water (Switzerland)</i> , 2017 , 9, 188	3	2
3	High-resolution stream network delineation using digital elevation models: assessing the spatial accuracy		2
2	Geomorpho90m - Global high-resolution geomorphometry layers: empirical evaluation and accuracy assessment		2
1	Integrative ichthyological species delimitation in the Greenthroat Darter complex (Percidae: Etheostomatinae). <i>Zoologica Scripta</i> , 2021 , 50, 707	2.5	1