Sami Domisch

List of Publications by Year in Descending Order

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	A global agenda for advancing freshwater biodiversity research. *Ecology Letters*, **2021**,	10	6
41	Assessing whether artificial intelligence is an enabler or an inhibitor of sustainability at indicator level. *Transportation Engineering*, **2021**, 4, 100064	3	22
40	Safeguarding freshwater life beyond 2020: Recommendations for the new global biodiversity framework from the European experience. *Conservation Letters*, **2021**, 14, e12771	6.9	27
39	Improving the reliability of eDNA data interpretation. *Molecular Ecology Resources*, **2021**, 21, 1422-1433	8.4	9
38	Twenty-five essential research questions to inform the protection and restoration of freshwater biodiversity. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **2021**, 31, 2632-2653	2.6	11
37	Integrative ichthyological species delimitation in the Greenthroat Darter complex (Percidae: Etheostomatinae). *Zoologica Scripta*, **2021**, 50, 707	2.5	1
36	Revisiting global trends in freshwater insect biodiversity. *Wiley Interdisciplinary Reviews: Water*, **2021**, 8, e1506	5.7	6
35	Estimating nitrogen and phosphorus concentrations in streams and rivers, within a machine learning framework. *Scientific Data*, **2020**, 7, 161	8.2	19
34	Geomorpho90m, empirical evaluation and accuracy assessment of global high-resolution geomorphometric layers. *Scientific Data*, **2020**, 7, 162	8.2	26
33	From topography to hydrology-The modifiable area unit problem impacts freshwater species distribution models. *Ecology and Evolution*, **2020**, 10, 2956-2968	2.8	3
32	Climate model variability leads to uncertain predictions of the future abundance of stream macroinvertebrates. *Scientific Reports*, **2020**, 10, 2520	4.9	2
31	The role of artificial intelligence in achieving the Sustainable Development Goals. *Nature Communications*, **2020**, 11, 233	17.4	349
30	Elevation, aspect, and local environment jointly determine diatom and macroinvertebrate diversity in the Cangshan Mountain, Southwest China. *Ecological Indicators*, **2020**, 108, 105618	5.8	12
29	How to make ecological models useful for environmental management. *Ecological Modelling*, **2019**, 411, 108784	3	44
28	Combining eight research areas to foster the uptake of ecosystem-based management in fresh waters. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **2019**, 29, 1161-1173	2.6	15
27	Spatially explicit species distribution models: A missed opportunity in conservation planning?. *Diversity and Distributions*, **2019**, 25, 758-769	5	15
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. *Science of the Total Environment*, **2019**, 652, 1463-1473	10.2	23

25	Social equity shapes zone-selection: Balancing aquatic biodiversity conservation and ecosystem services delivery in the transboundary Danube River Basin. *Science of the Total Environment*, **2019**, 656, 797-807	10.2	13
24	Projected effects of Climate-change-induced flow alterations on stream macroinvertebrate abundances. *Ecology and Evolution*, **2018**, 8, 3393-3409	2.8	22
23	A suite of global, cross-scale topographic variables for environmental and biodiversity modeling. *Scientific Data*, **2018**, 5, 180040	8.2	165
22	A high-resolution streamflow and hydrological metrics dataset for ecological modeling using a regression model. *Scientific Data*, **2018**, 5, 180224	8.2	9
21	Local environment and space drive multiple facets of stream macroinvertebrate beta diversity. *Journal of Biogeography*, **2018**, 45, 2744-2754	4.1	55
20	Cross-realm assessment of climate change impacts on speciesbabundance trends. *Nature Ecology and Evolution*, **2017**, 1, 67	12.3	55
19	Severity Multipliers as a Methodology to Explore Potential Effects of Climate Change on Stream Bioassessment Programs. *Water (Switzerland)*, **2017**, 9, 188	3	2
18	Cross-taxa generalities in the relationship between population abundance and ambient temperatures. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	12
17	Using streamflow observations to estimate the impact of hydrological regimes and anthropogenic water use on European stream macroinvertebrate occurrences. *Ecohydrology*, **2017**, 10, e1895	2.5	15
16	Model-based integration of observed and expert-based information for assessing the geographic and environmental distribution of freshwater species. *Ecography*, **2016**, 39, 1078-1088	6.5	22
15	Ecological models in freshwater ecosystems. *Fundamental and Applied Limnology*, **2015**, 186, 1-3	1.9	2
14	Near-global freshwater-specific environmental variables for biodiversity analyses in 1 km resolution. *Scientific Data*, **2015**, 2, 150073	8.2	81
13	Application of species distribution models in stream ecosystems: the challenges of spatial and temporal scale, environmental predictors and species occurrence data. *Fundamental and Applied Limnology*, **2015**, 186, 45-61	1.9	55
12	Emerging semantics to link phenotype and environment. *PeerJ*, **2015**, 3, e1470	3.1	13
11	Current and future latitudinal gradients in stream macroinvertebrate richness across North America. *Freshwater Science*, **2014**, 33, 1136-1147	2	14
10	Continental-scale conservation prioritization of African dragonflies. *Biological Conservation*, **2013**, 157, 245-254	6.2	32
9	Choice of study area and predictors affect habitat suitability projections, but not the performance of species distribution models of stream biota. *Ecological Modelling*, **2013**, 257, 1-10	3	44
8	Modelling distribution in European stream macroinvertebrates under future climates. *Global Change Biology*, **2013**, 19, 752-62	11.4	128

7	Range shifts of a relict Himalayan dragonfly in the Hindu Kush Himalayan region under climate change scenarios. *International Journal of Odonatology*, **2012**, 15, 209-222	0.5	13
6	Modelling of riverine ecosystems by integrating models: conceptual approach, a case study and research agenda. *Journal of Biogeography*, **2012**, 39, 2253-2263	4.1	40
5	Cryptic biodiversity loss linked to global climate change. *Nature Climate Change*, **2011**, 1, 313-318	21.4	244
4	Climate-change winners and losers: stream macroinvertebrates of a submontane region in Central Europe. *Freshwater Biology*, **2011**, 56, 2009-2020	3.1	132
3	Low mountain ranges: summit traps for montane freshwater species under climate change. *Biodiversity and Conservation*, **2011**, 20, 3133-3146	3.4	53
2	High-resolution stream network delineation using digital elevation models: assessing the spatial accuracy		2
1	Geomorpho90m - Global high-resolution geomorphometry layers: empirical evaluation and accuracy assessment		2