

Sonja C. Jhnig

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91
papers

2,984
citations

31
h-index

52
g-index

110
ext. papers

3,877
ext. citations

5
avg, IF

5.36
L-index

#	Paper	IF	Citations
91	The role of the uplift of the Qinghai-Tibetan Plateau for the evolution of Tibetan biotas. <i>Biological Reviews</i> , 2015 , 90, 236-53	13.5	369
90	River restoration success: a question of perception 2011 , 21, 2007-15		135
89	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
88	Modelling distribution in European stream macroinvertebrates under future climates. <i>Global Change Biology</i> , 2013 , 19, 752-62	11.4	128
87	The impact of hydromorphological restoration on river ecological status: a comparison of fish, benthic invertebrates, and macrophytes. <i>Hydrobiologia</i> , 2013 , 704, 475-488	2.4	128
86	A comparative analysis of restoration measures and their effects on hydromorphology and benthic invertebrates in 26 central and southern European rivers. <i>Journal of Applied Ecology</i> , 2010 , 47, 671-680	5.8	119
85	The Alliance for Freshwater Life: A global call to unite efforts for freshwater biodiversity science and conservation. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2018 , 28, 1015-1022	2.6	106
84	Dispersal as a limiting factor in the colonization of restored mountain streams by plants and macroinvertebrates. <i>Journal of Applied Ecology</i> , 2011 , 48, 1241-1250	5.8	81
83	Effects of re-braiding measures on hydromorphology, floodplain vegetation, ground beetles and benthic invertebrates in mountain rivers. <i>Journal of Applied Ecology</i> , 2009 , 46, 406-416	5.8	76
82	The global decline of freshwater megafauna. <i>Global Change Biology</i> , 2019 , 25, 3883-3892	11.4	72
81	Limiting factors and thresholds for macroinvertebrate assemblages in European rivers: Empirical evidence from three datasets on water quality, catchment urbanization, and river restoration. <i>Ecological Indicators</i> , 2012 , 18, 63-72	5.8	71
80	Contrasting metacommunity structure and beta diversity in an aquatic-floodplain system. <i>Oikos</i> , 2016 , 125, 686-697	4	67
79	Context dependency in biodiversity patterns of central German stream metacommunities. <i>Freshwater Biology</i> , 2016 , 61, 607-620	3.1	67
78	Re-meandering German lowland streams: qualitative and quantitative effects of restoration measures on hydromorphology and macroinvertebrates. <i>Environmental Management</i> , 2009 , 44, 745-54	3.1	59
77	Integrating catchment properties in small scale species distribution models of stream macroinvertebrates. <i>Ecological Modelling</i> , 2014 , 277, 77-86	3	56
76	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
75	An attack on two fronts: predicting how changes in land use and climate affect the distribution of stream macroinvertebrates. <i>Freshwater Biology</i> , 2015 , 60, 1443-1458	3.1	51

74	Substrate-specific macroinvertebrate diversity patterns following stream restoration. <i>Aquatic Sciences</i> , 2008 , 70, 292-303	2.5	49
73	The three Rs of river ecosystem resilience: Resources, recruitment, and refugia. <i>River Research and Applications</i> , 2019 , 35, 107-120	2.3	48
72	Flagship umbrella species needed for the conservation of overlooked aquatic biodiversity. <i>Conservation Biology</i> , 2017 , 31, 481-485	6	44
71	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
70	Freshwater Megafauna: Flagships for Freshwater Biodiversity under Threat. <i>BioScience</i> , 2017 , 67, 919-927	7.7	42
69	Metacommunity structuring in Himalayan streams over large elevational gradients: the role of dispersal routes and niche characteristics. <i>Journal of Biogeography</i> , 2017 , 44, 62-74	4.1	41
68	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
67	Future large hydropower dams impact global freshwater megafauna. <i>Scientific Reports</i> , 2019 , 9, 18531	4.9	40
66	Hydromorphological parameters indicating differences between single- and multiple-channel mountain rivers in Germany, in relation to their modification and recovery. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2008 , 18, 1200-1216	2.6	39
65	Disappearing giants: a review of threats to freshwater megafauna. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017 , 4, e1208	5.7	38
64	Substratum associations of benthic invertebrates in lowland and mountain streams. <i>Ecological Indicators</i> , 2013 , 30, 178-189	5.8	37
63	Mountain river restoration measures and their success(ion): Effects on river morphology, local species pool, and functional composition of three organism groups. <i>Ecological Indicators</i> , 2014 , 38, 243-258	5.8	36
62	Freshwater megafauna diversity: Patterns, status and threats. <i>Diversity and Distributions</i> , 2018 , 24, 1395-1404	5.4	35
61	Restoration effort, habitat mosaics, and macroinvertebrates Does channel form determine community composition?. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2009 , 19, 157-169	2.6	35
60	Impacts of land use changes on hydrological components and macroinvertebrate distributions in the Poyang lake area. <i>Ecohydrology</i> , 2015 , 8, 1119-1136	2.5	27
59	Environmental Controls on River Assemblages at the Regional Scale: An Application of the Elements of Metacommunity Structure Framework. <i>PLoS ONE</i> , 2015 , 10, e0135450	3.7	27
58	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
57	Quantitative hydrological preferences of benthic stream invertebrates in Germany. <i>Ecological Indicators</i> , 2017 , 79, 163-172	5.8	26

56	Climate change impacts on ecologically relevant hydrological indicators in three catchments in three European ecoregions. <i>Ecological Engineering</i> , 2019 , 127, 404-416	3.9	25
55	Improving hydrological model optimization for riverine species. <i>Ecological Indicators</i> , 2017 , 80, 376-385	5.8	23
54	Elements of metacommunity structure of river and riparian assemblages: Communities, taxonomic groups and deconstructed trait groups. <i>Ecological Complexity</i> , 2016 , 25, 35-43	2.6	23
53	Projected effects of Climate-change-induced flow alterations on stream macroinvertebrate abundances. <i>Ecology and Evolution</i> , 2018 , 8, 3393-3409	2.8	22
52	The Freshwater Information Platform: a global online network providing data, tools and resources for science and policy support. <i>Hydrobiologia</i> , 2019 , 838, 1-11	2.4	18
51	The climate sensitive zone along an altitudinal gradient in central Himalayan rivers: a useful concept to monitor climate change impacts in mountain regions. <i>Climatic Change</i> , 2015 , 132, 265-278	4.5	18
50	Climatic and Catchment-Scale Predictors of Chinese Stream Insect Richness Differ between Taxonomic Groups. <i>PLoS ONE</i> , 2015 , 10, e0123250	3.7	17
49	Relation between floodplain land use and river hydromorphology on different spatial scales a case study from two lower-mountain catchments in Germany. <i>Fundamental and Applied Limnology</i> , 2009 , 174, 63-73	1.9	16
48	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
47	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
46	Spatially explicit species distribution models: A missed opportunity in conservation planning?. <i>Diversity and Distributions</i> , 2019 , 25, 758-769	5	15
45	Anthropogenic land-use stress alters community concordance at the river-riparian interface. <i>Ecological Indicators</i> , 2016 , 65, 133-141	5.8	14
44	Current and future latitudinal gradients in stream macroinvertebrate richness across North America. <i>Freshwater Science</i> , 2014 , 33, 1136-1147	2	14
43	Rethinking megafauna. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20192643	4.4	13
42	The Rise of Riverine Flow-ecology and Environmental Flow Research. <i>Environmental Processes</i> , 2014 , 1, 323-330	2.8	13
41	River water quality assessment in selected Yangtze tributaries: Background and method development. <i>Journal of Earth Science (Wuhan, China)</i> , 2010 , 21, 876-881	2.2	13
40	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
39	A comparison of habitat diversity and interannual habitat dynamics in actively and passively restored mountain rivers of Germany. <i>Hydrobiologia</i> , 2013 , 712, 89-104	2.4	12

38	Expanding conservation culturomics and iEcology from terrestrial to aquatic realms. <i>PLoS Biology</i> , 2020 , 18, e3000935	9.7	12
37	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
36	A new model linking macroinvertebrate assemblages to habitat composition in rivers: development, sensitivity and univariate application. <i>Fundamental and Applied Limnology</i> , 2015 , 186, 117-133	1.9	11
35	Characterizing macroinvertebrate communities across China: Large-scale implementation of a self-organizing map. <i>Ecological Indicators</i> , 2012 , 23, 394-401	5.8	11
34	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
33	Exceptional body size-extinction risk relations shed new light on the freshwater biodiversity crisis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10263-E10264	11.5	10
32	Environmental and spatial characterisation of an unknown fauna using DNA sequencing: an example with Himalayan Hydropsychidae (Insecta: Trichoptera). <i>Freshwater Biology</i> , 2016 , 61, 1905-1920	3.1	9
31	Climate Change and the Hydrology and Morphology of Freshwater Ecosystems 2010 , 65-83		9
30	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
29	Latitudinal patterns and large-scale environmental determinants of stream insect richness across Europe. <i>Limnologica</i> , 2015 , 55, 33-43	2	8
28	A meeting framework for inclusive and sustainable science. <i>Nature Ecology and Evolution</i> , 2020 , 4, 668-671	1.3	7
27	Introducing the H2020 AQUACROSS project: Knowledge, Assessment, and Management for AQUATIC Biodiversity and Ecosystem Services across EU policies. <i>Science of the Total Environment</i> , 2019 , 652, 320-329	10.2	7
26	Combined effects of life-history traits and human impact on extinction risk of freshwater megafauna. <i>Conservation Biology</i> , 2021 , 35, 643-653	6	7
25	When is a hydrological model sufficiently calibrated to depict flow preferences of riverine species?. <i>Ecohydrology</i> , 2020 , 13, e2193	2.5	6
24	A global agenda for advancing freshwater biodiversity research. <i>Ecology Letters</i> , 2021 ,	10	6
23	Streamflow-based evaluation of climate model sub-selection methods. <i>Climatic Change</i> , 2020 , 163, 1267-1285	4.3	6
22	Revisiting global trends in freshwater insect biodiversity. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021 , 8, e1506	5.7	6
21	Molecular association and morphological characterisation of larval types (Trichoptera, Rhyacophilidae). <i>ZooKeys</i> , 2018 , 79-108	1.2	5

20	On the use of multicriteria decision analysis to formally integrate community values into ecosystem-based freshwater management. <i>River Research and Applications</i> , 2019 , 35, 1666-1676	2.3	5
19	SMART Research: Toward Interdisciplinary River Science in Europe. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	4
18	Community–Environment relationships of riverine invertebrate communities in central Chinese streams. <i>Environmental Earth Sciences</i> , 2015 , 74, 6431-6442	2.9	4
17	Impacts of loss of free-flowing rivers on global freshwater megafauna. <i>Biological Conservation</i> , 2021 , 263, 109335	6.2	4
16	Modelling spatial distribution of surface runoff and sediment yield in a Chinese river basin without continuous sediment monitoring. <i>Hydrological Sciences Journal</i> , 2015 , 1-24	3.5	3
15	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
14	Put freshwater megafauna on the table before they are eaten to extinction. <i>Conservation Letters</i> , 2019 , 12, e12662	6.9	3
13	Identifying and applying an optimum set of environmental variables in species distribution models. <i>Inland Waters</i> , 2020 , 10, 11-28	2.4	3
12	Variation in macroinvertebrate community structure of functional process zones along the river continuum: New elements for the interpretation of the river ecosystem synthesis. <i>River Research and Applications</i> , 2021 , 37, 665-674	2.3	3
11	Increased sediment deposition triggered by climate change impacts freshwater pearl mussel habitats and metapopulations. <i>Journal of Applied Ecology</i> , 2021 , 58, 1933-1944	5.8	3
10	Molecular phylogeny of Himalopsyche (Trichoptera, Rhyacophilidae). <i>Systematic Entomology</i> , 2019 , 44, 973-984	3.4	2
9	Climate model variability leads to uncertain predictions of the future abundance of stream macroinvertebrates. <i>Scientific Reports</i> , 2020 , 10, 2520	4.9	2
8	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
7	Safeguarding Freshwater Life Beyond 2020: Recommendations for the New Global Biodiversity Framework from the European Experience		2
6	More exposure opportunities for promoting freshwater conservation. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021 , 31, 3626	2.6	2
5	Benthic Macroinvertebrates as Indicators for River Health in Changjiang Basin. <i>Terrestrial Environmental Sciences</i> , 2019 , 207-217	0.1	2
4	Metacommunity Structures of Macroinvertebrates and Diatoms in High Mountain Streams, Yunnan, China. <i>Frontiers in Ecology and Evolution</i> , 2020 , 8,	3.7	2
3	A Global Agenda for Advancing Freshwater Biodiversity Research		2

2 Introduction to European rivers **2022**, 1-26

1 Disentangling the effect of climatic and hydrological predictor variables on benthic macroinvertebrate distributions from predictive models. *Hydrobiologia*, **2022**, 849, 1021-1040

2.4