

# Gal Grenouillet

## List of Publications by Citations

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**Version:** 2024-04-28

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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.

71  
papers

3,601  
citations

31  
h-index

59  
g-index

71  
ext. papers

4,501  
ext. citations

6.3  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
71	Uncertainty in ensemble forecasting of species distribution. <i>Global Change Biology</i> , <b>2010</b> , 16, 1145-1157	11.4	437
70	How many dimensions are needed to accurately assess functional diversity? A pragmatic approach for assessing the quality of functional spaces. <i>Global Ecology and Biogeography</i> , <b>2015</b> , 24, 728-740	6.1	222
69	Decomposing functional diversity reveals that low functional diversity is driven by low functional turnover in European fish assemblages. <i>Global Ecology and Biogeography</i> , <b>2013</b> , 22, 671-681	6.1	222
68	Climate-induced changes in the distribution of freshwater fish: observed and predicted trends. <i>Freshwater Biology</i> , <b>2013</b> , 58, 625-639	3.1	213
67	Ensemble modelling of species distribution: the effects of geographical and environmental ranges. <i>Ecography</i> , <b>2011</b> , 34, 9-17	6.5	197
66	Climate change hastens the turnover of stream fish assemblages. <i>Global Change Biology</i> , <b>2008</b> , 14, 2232-2248	11.4	186
65	Do stream fish track climate change? Assessing distribution shifts in recent decades. <i>Ecography</i> , <b>2013</b> , 36, 1236-1246	6.5	140
64	Toward a loss of functional diversity in stream fish assemblages under climate change. <i>Global Change Biology</i> , <b>2013</b> , 19, 387-400	11.4	130
63	Species better track climate warming in the oceans than on land. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 1044-1059	12.3	121
62	Functional homogenization exceeds taxonomic homogenization among European fish assemblages. <i>Global Ecology and Biogeography</i> , <b>2014</b> , 23, 1450-1460	6.1	92
61	Global imprint of historical connectivity on freshwater fish biodiversity. <i>Ecology Letters</i> , <b>2014</b> , 17, 1130-40	10	88
60	Contrasted impacts of climate change on stream fish assemblages along an environmental gradient. <i>Diversity and Distributions</i> , <b>2009</b> , 15, 613-626	5	81
59	Abundance and species richness as a function of food resources and vegetation structure: juvenile fish assemblages in rivers. <i>Ecography</i> , <b>2002</b> , 25, 641-650	6.5	76
58	Unlocking biodiversity and conservation studies in high-diversity environments using environmental DNA (eDNA): A test with Guianese freshwater fishes. <i>Molecular Ecology Resources</i> , <b>2019</b> , 19, 27-46	8.4	74
57	Non-native species disrupt the worldwide patterns of freshwater fish body size: implications for Bergmann's rule. <i>Ecology Letters</i> , <b>2010</b> , 13, 421-31	10	73
56	A scenario for impacts of water availability loss due to climate change on riverine fish extinction rates. <i>Journal of Applied Ecology</i> , <b>2013</b> , 50, 1105-1115	5.8	63
55	Climate Change and the Future of Freshwater Biodiversity in Europe: A Primer for Policy-Makers. <i>Freshwater Reviews: A Journal of the Freshwater Biological Association</i> , <b>2009</b> , 2, 103-130		62

54	Evidence of Water Quality Degradation in Lower Mekong Basin Revealed by Self-Organizing Map. <i>PLoS ONE</i> , <b>2016</b> , 11, e0145527	3.7	59
53	POPULATION DYNAMICS OF MOTTLED SCULPIN (PISCES) IN A VARIABLE ENVIRONMENT: INFORMATION THEORETIC APPROACHES. <i>Ecological Monographs</i> , <b>2006</b> , 76, 217-234	9	55
52	Evidence of indiscriminate fishing effects in one of the world's largest inland fisheries. <i>Scientific Reports</i> , <b>2018</b> , 8, 8947	4.9	52
51	Species distribution modelling and imperfect detection: comparing occupancy versus consensus methods. <i>Diversity and Distributions</i> , <b>2013</b> , 19, 996-1007	5	48
50	Species traits and phylogenetic conservatism of climate-induced range shifts in stream fishes. <i>Nature Communications</i> , <b>2014</b> , 5, 5023	17.4	46
49	Small-scale gold mining erodes fish assemblage structure in small neotropical streams. <i>Biodiversity and Conservation</i> , <b>2011</b> , 20, 1013-1026	3.4	42
48	Non-native species led to marked shifts in functional diversity of the world freshwater fish faunas. <i>Ecology Letters</i> , <b>2018</b> , 21, 1649-1659	10	42
47	Stream fish assemblages and basin land cover in a river network. <i>Science of the Total Environment</i> , <b>2006</b> , 365, 140-53	10.2	40
46	Host characteristics and environmental factors differentially drive the burden and pathogenicity of an ectoparasite: a multilevel causal analysis. <i>Journal of Animal Ecology</i> , <b>2011</b> , 80, 657-67	4.7	39
45	Species contribute differently to the taxonomic, functional, and phylogenetic alpha and beta diversity of freshwater fish communities. <i>Diversity and Distributions</i> , <b>2014</b> , 20, 1235-1244	5	38
44	Evidence that elevated water temperature affects the reproductive physiology of the European bullhead <i>Cottus gobio</i> . <i>Fish Physiology and Biochemistry</i> , <b>2012</b> , 38, 389-99	2.7	37
43	Drainage network position and historical connectivity explain global patterns in freshwater fishes' range size. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 13434-13439	11.5	35
42	Drivers of freshwater fish colonisations and extirpations under climate change. <i>Ecography</i> , <b>2015</b> , 38, 510-519	6.5	31
41	Regional vs local drivers of phylogenetic and species diversity in stream fish communities. <i>Freshwater Biology</i> , <b>2014</b> , 59, 450-462	3.1	31
40	Concomitant impacts of climate change, fragmentation and non-native species have led to reorganization of fish communities since the 1980s. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 213-222	6.1	31
39	Illuminating geographical patterns in species' range shifts. <i>Global Change Biology</i> , <b>2014</b> , 20, 3080-91	11.4	29
38	Influence of small-scale gold mining on French Guiana streams: Are diatom assemblages valid disturbance sensors?. <i>Ecological Indicators</i> , <b>2012</b> , 14, 100-106	5.8	28
37	Taxonomic and functional diversity patterns reveal different processes shaping European and Amazonian stream fish assemblages. <i>Journal of Biogeography</i> , <b>2016</b> , 43, 1832-1843	4.1	26

36	Distribution shifts of freshwater fish under a variable climate: comparing climatic, bioclimatic and biotic velocities. <i>Diversity and Distributions</i> , <b>2015</b> , 21, 1014-1026	5	26
35	Toward an ecological understanding of a flood-pulse system lake in a tropical ecosystem: Food web structure and ecosystem health. <i>Ecological Modelling</i> , <b>2016</b> , 323, 1-11	3	24
34	Large-scale patterns of fish diversity and assemblage structure in the longest tropical river in Asia. <i>Ecology of Freshwater Fish</i> , <b>2017</b> , 26, 575-585	2.1	24
33	Indirect effect of temperature on fish population abundances through phenological changes. <i>PLoS ONE</i> , <b>2017</b> , 12, e0175735	3.7	24
32	Spatial synchrony in stream fish populations: influence of species traits. <i>Ecography</i> , <b>2014</b> , 37, 960-968	6.5	19
31	Intra- and interspecific differences in nutrient recycling by European freshwater fish. <i>Freshwater Biology</i> , <b>2012</b> , 57, 2330-2341	3.1	19
30	Spatio-temporal patterns of fish assemblages in coastal West African rivers: a self-organizing map approach. <i>Aquatic Living Resources</i> , <b>2006</b> , 19, 361-370	1.5	19
29	Environmental determinants of fish community structure in gravel pit lakes. <i>Ecology of Freshwater Fish</i> , <b>2016</b> , 25, 412-421	2.1	19
28	Natural abiotic factors more than anthropogenic perturbation shape the invasion of Eastern Mosquitofish ( <i>Gambusia holbrooki</i> ). <i>Freshwater Science</i> , <b>2015</b> , 34, 965-974	2	17
27	Behavioral response of juvenile rainbow trout exposed to an herbicide mixture. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 112, 15-21	7	17
26	Increased taxonomic and functional similarity does not increase the trophic similarity of communities. <i>Global Ecology and Biogeography</i> , <b>2016</b> , 25, 46-54	6.1	16
25	Spatial range shape drives the grain size effects in species distribution models. <i>Ecography</i> , <b>2013</b> , 36, 778-787	6.7	15
24	Combining genetic and demographic data for prioritizing conservation actions: insights from a threatened fish species. <i>Ecology and Evolution</i> , <b>2013</b> , 3, 2696-710	2.8	14
23	Spatial mismatch in morphological, ecological and phylogenetic diversity, in historical and contemporary European freshwater fish faunas. <i>Ecography</i> , <b>2018</b> , 41, 1665-1674	6.5	13
22	Spatial and temporal variation in fish community structure and diversity in the largest tropical flood-pulse system of South-East Asia. <i>Ecology of Freshwater Fish</i> , <b>2018</b> , 27, 1087-1100	2.1	12
21	Species range shifts in response to climate change and human pressure for the world's largest amphibian. <i>Science of the Total Environment</i> , <b>2020</b> , 735, 139543	10.2	11
20	Interactions between species attributes explain population dynamics in stream fishes under changing climate. <i>Ecosphere</i> , <b>2018</b> , 9, e02061	3.1	11
19	Dealing with noisy absences to optimize species distribution models: an iterative ensemble modelling approach. <i>PLoS ONE</i> , <b>2012</b> , 7, e49508	3.7	11

18	Fish assemblage responses to flow seasonality and predictability in a tropical flood pulse system. <i>Ecosphere</i> , <b>2018</b> , 9, e02366	3.1	10
17	Community disassembly under global change: Evidence in favor of the stress-dominance hypothesis. <i>Global Change Biology</i> , <b>2018</b> , 24, 4417-4427	11.4	10
16	Phenotypic variation as an indicator of pesticide stress in gudgeon: Accounting for confounding factors in the wild. <i>Science of the Total Environment</i> , <b>2015</b> , 538, 733-42	10.2	9
15	Measurements of spatial population synchrony: influence of time series transformations. <i>Oecologia</i> , <b>2015</b> , 179, 15-28	2.9	9
14	Modeling the impact of landscape types on the distribution of stream fish species. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2009</b> , 66, 484-495	2.4	9
13	The iterative ensemble modelling approach increases the accuracy of fish distribution models. <i>Ecography</i> , <b>2015</b> , 38, 213-220	6.5	8
12	Climate interacts with anthropogenic drivers to determine extirpation dynamics. <i>Ecography</i> , <b>2016</b> , 39, 1008-1016	6.5	8
11	Spatial patterns and determinants of trait dispersion in freshwater fish assemblages across Europe. <i>Global Ecology and Biogeography</i> , <b>2019</b> , 28, 826-838	6.1	7
10	A new freshwater biodiversity indicator based on fish community assemblages. <i>PLoS ONE</i> , <b>2013</b> , 8, e80968	6.8	7
9	PCR-free shotgun sequencing of the stone loach mitochondrial genome ( <i>Barbatula barbatula</i> ). <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , <b>2016</b> , 27, 4211-4212	1.3	5
8	Spatial pattern and determinants of global invasion risk of an invasive species, sharpbelly <i>Hemiculter leucisculus</i> (Basilesky, 1855). <i>Science of the Total Environment</i> , <b>2020</b> , 711, 134661	10.2	5
7	Fish Community Responses to Human-Induced Stresses in the Lower Mekong Basin. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3522	3	4
6	Effects of an anti-salt intrusion dam on tropical fish assemblages. <i>Marine and Freshwater Research</i> , <b>2010</b> , 61, 288	2.2	4
5	Impact of seasonal hydrological variation on tropical fish assemblages: abrupt shift following an extreme flood event. <i>Ecosphere</i> , <b>2020</b> , 11, e03303	3.1	3
4	Responses of spawning thermal suitability to climate change and hydropower operation for typical fishes below the Three Gorges Dam. <i>Ecological Indicators</i> , <b>2021</b> , 121, 107186	5.8	3
3	Reply to: Flooding is a key driver of the Tonle Sap dai fishery in Cambodia <i>Scientific Reports</i> , <b>2021</b> , 11, 3815	4.9	2
2	Comment on "Forest microclimate dynamics drive plant responses to warming". <i>Science</i> , <b>2020</b> , 370,	33.3	1
1	Phylogenetic signal and evolutionary relationships among traits of inland fishes along elevational and longitudinal gradients. <i>Freshwater Biology</i> , <b>2022</b> , 67, 912-925	3.1	0

