Gal Grenouillet

List of Publications by Year in Descending Order

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	Phylogenetic signal and evolutionary relationships among traits of inland fishes along elevational and longitudinal gradients. *Freshwater Biology*, **2022**, 67, 912-925	3.1	0
70	Reply to: "Flooding is a key driver of the Tonle Sap dai fishery in Cambodia" *Scientific Reports*, **2021**, 11, 3815	4.9	2
69	Responses of spawning thermal suitability to climate change and hydropower operation for typical fishes below the Three Gorges Dam. *Ecological Indicators*, **2021**, 121, 107186	5.8	3
68	Fish Community Responses to Human-Induced Stresses in the Lower Mekong Basin. *Water (Switzerland)*, **2020**, 12, 3522	3	4
67	Impact of seasonal hydrological variation on tropical fish assemblages: abrupt shift following an extreme flood event. *Ecosphere*, **2020**, 11, e03303	3.1	3
66	Species range shifts in response to climate change and human pressure for the world's largest amphibian. *Science of the Total Environment*, **2020**, 735, 139543	10.2	11
65	Species better track climate warming in the oceans than on land. *Nature Ecology and Evolution*, **2020**, 4, 1044-1059	12.3	121
64	Spatial pattern and determinants of global invasion risk of an invasive species, sharpbelly Hemiculter leucisculus (Basilesky, 1855). *Science of the Total Environment*, **2020**, 711, 134661	10.2	5
63	Comment on "Forest microclimate dynamics drive plant responses to warming". *Science*, **2020**, 370,	33.3	1
62	Drainage network position and historical connectivity explain global patterns in freshwater fishes' range size. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 13434-13439	11.5	35
61	Spatial patterns and determinants of trait dispersion in freshwater fish assemblages across Europe. *Global Ecology and Biogeography*, **2019**, 28, 826-838	6.1	7
60	Unlocking biodiversity and conservation studies in high-diversity environments using environmental DNA (eDNA): A test with Guianese freshwater fishes. *Molecular Ecology Resources*, **2019**, 19, 27-46	8.4	74
59	Spatial mismatch in morphological, ecological and phylogenetic diversity, in historical and contemporary European freshwater fish faunas. *Ecography*, **2018**, 41, 1665-1674	6.5	13
58	Interactions between species attributes explain population dynamics in stream fishes under changing climate. *Ecosphere*, **2018**, 9, e02061	3.1	11
57	Spatial and temporal variation in fish community structure and diversity in the largest tropical flood-pulse system of South-East Asia. *Ecology of Freshwater Fish*, **2018**, 27, 1087-1100	2.1	12
56	Evidence of indiscriminate fishing effects in one of the world's largest inland fisheries. *Scientific Reports*, **2018**, 8, 8947	4.9	52
55	Concomitant impacts of climate change, fragmentation and non-native species have led to reorganization of fish communities since the 1980s. *Global Ecology and Biogeography*, **2018**, 27, 213-222	6.1	31

54	Fish assemblage responses to flow seasonality and predictability in a tropical flood pulse system. *Ecosphere*, **2018**, 9, e02366	3.1	10
53	Non-native species led to marked shifts in functional diversity of the world freshwater fish faunas. *Ecology Letters*, **2018**, 21, 1649-1659	10	42
52	Community disassembly under global change: Evidence in favor of the stress-dominance hypothesis. *Global Change Biology*, **2018**, 24, 4417-4427	11.4	10
51	Large-scale patterns of fish diversity and assemblage structure in the longest tropical river in Asia. *Ecology of Freshwater Fish*, **2017**, 26, 575-585	2.1	24
50	Indirect effect of temperature on fish population abundances through phenological changes. *PLoS ONE*, **2017**, 12, e0175735	3.7	24
49	PCR-free shotgun sequencing of the stone loach mitochondrial genome (Barbatula barbatula). *Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis*, **2016**, 27, 4211-4212	1.3	5
48	Taxonomic and functional diversity patterns reveal different processes shaping European and Amazonian stream fish assemblages. *Journal of Biogeography*, **2016**, 43, 1832-1843	4.1	26
47	Toward an ecological understanding of a flood-pulse system lake in a tropical ecosystem: Food web structure and ecosystem health. *Ecological Modelling*, **2016**, 323, 1-11	3	24
46	Evidence of Water Quality Degradation in Lower Mekong Basin Revealed by Self-Organizing Map. *PLoS ONE*, **2016**, 11, e0145527	3.7	59
45	Climate interacts with anthropogenic drivers to determine extirpation dynamics. *Ecography*, **2016**, 39, 1008-1016	6.5	8
44	Environmental determinants of fish community structure in gravel pit lakes. *Ecology of Freshwater Fish*, **2016**, 25, 412-421	2.1	19
43	Increased taxonomic and functional similarity does not increase the trophic similarity of communities. *Global Ecology and Biogeography*, **2016**, 25, 46-54	6.1	16
42	How many dimensions are needed to accurately assess functional diversity? A pragmatic approach for assessing the quality of functional spaces. *Global Ecology and Biogeography*, **2015**, 24, 728-740	6.1	222
41	Phenotypic variation as an indicator of pesticide stress in gudgeon: Accounting for confounding factors in the wild. *Science of the Total Environment*, **2015**, 538, 733-42	10.2	9
40	Natural abiotic factors more than anthropogenic perturbation shape the invasion of Eastern Mosquitofish (Gambusia holbrooki). *Freshwater Science*, **2015**, 34, 965-974	2	17
39	Behavioral response of juvenile rainbow trout exposed to an herbicide mixture. *Ecotoxicology and Environmental Safety*, **2015**, 112, 15-21	7	17
38	Drivers of freshwater fish colonisations and extirpations under climate change. *Ecography*, **2015**, 38, 510-519	6.5	31
37	Distribution shifts of freshwater fish under a variable climate: comparing climatic, bioclimatic and biotic velocities. *Diversity and Distributions*, **2015**, 21, 1014-1026	5	26

36	Measurements of spatial population synchrony: influence of time series transformations. *Oecologia*, **2015**, 179, 15-28	2.9	9
35	The iterative ensemble modelling approach increases the accuracy of fish distribution models. *Ecography*, **2015**, 38, 213-220	6.5	8
34	Regional vs local drivers of phylogenetic and species diversity in stream fish communities. *Freshwater Biology*, **2014**, 59, 450-462	3.1	31
33	Functional homogenization exceeds taxonomic homogenization among European fish assemblages. *Global Ecology and Biogeography*, **2014**, 23, 1450-1460	6.1	92
32	Species traits and phylogenetic conservatism of climate-induced range shifts in stream fishes. *Nature Communications*, **2014**, 5, 5023	17.4	46
31	Illuminating geographical patterns in species□ range shifts. *Global Change Biology*, **2014**, 20, 3080-91	11.4	29
30	Global imprint of historical connectivity on freshwater fish biodiversity. *Ecology Letters*, **2014**, 17, 1130-40	10	88
29	Species contribute differently to the taxonomic, functional, and phylogenetic alpha and beta diversity of freshwater fish communities. *Diversity and Distributions*, **2014**, 20, 1235-1244	5	38
28	Spatial synchrony in stream fish populations: influence of species traits. *Ecography*, **2014**, 37, 960-968	6.5	19
27	A scenario for impacts of water availability loss due to climate change on riverine fish extinction rates. *Journal of Applied Ecology*, **2013**, 50, 1105-1115	5.8	63
26	Climate-induced changes in the distribution of freshwater fish: observed and predicted trends. *Freshwater Biology*, **2013**, 58, 625-639	3.1	213
25	Toward a loss of functional diversity in stream fish assemblages under climate change. *Global Change Biology*, **2013**, 19, 387-400	11.4	130
24	Spatial range shape drives the grain size effects in species distribution models. *Ecography*, **2013**, 36, 778-787	6.5	15
23	Do stream fish track climate change? Assessing distribution shifts in recent decades. *Ecography*, **2013**, 36, 1236-1246	6.5	140
22	Decomposing functional □diversity reveals that low functional □diversity is driven by low functional turnover in European fish assemblages. *Global Ecology and Biogeography*, **2013**, 22, 671-681	6.1	222
21	Species distribution modelling and imperfect detection: comparing occupancy versus consensus methods. *Diversity and Distributions*, **2013**, 19, 996-1007	5	48
20	Combining genetic and demographic data for prioritizing conservation actions: insights from a threatened fish species. *Ecology and Evolution*, **2013**, 3, 2696-710	2.8	14
19	A new freshwater biodiversity indicator based on fish community assemblages. *PLoS ONE*, **2013**, 8, e80968	3.7	7

18	Intra- and interspecific differences in nutrient recycling by European freshwater fish. *Freshwater Biology*, **2012**, 57, 2330-2341	3.1	19
17	Influence of small-scale gold mining on French Guiana streams: Are diatom assemblages valid disturbance sensors?. *Ecological Indicators*, **2012**, 14, 100-106	5.8	28
16	Evidence that elevated water temperature affects the reproductive physiology of the European bullhead Cottus gobio. *Fish Physiology and Biochemistry*, **2012**, 38, 389-99	2.7	37
15	Dealing with noisy absences to optimize species distribution models: an iterative ensemble modelling approach. *PLoS ONE*, **2012**, 7, e49508	3.7	11
14	Host characteristics and environmental factors differentially drive the burden and pathogenicity of an ectoparasite: a multilevel causal analysis. *Journal of Animal Ecology*, **2011**, 80, 657-67	4.7	39
13	Ensemble modelling of species distribution: the effects of geographical and environmental ranges. *Ecography*, **2011**, 34, 9-17	6.5	197
12	Small-scale gold mining erodes fish assemblage structure in small neotropical streams. *Biodiversity and Conservation*, **2011**, 20, 1013-1026	3.4	42
11	Uncertainty in ensemble forecasting of species distribution. *Global Change Biology*, **2010**, 16, 1145-1157	11.4	437
10	Non-native species disrupt the worldwide patterns of freshwater fish body size: implications for Bergmann's rule. *Ecology Letters*, **2010**, 13, 421-31	10	73
9	Effects of an anti-salt intrusion dam on tropical fish assemblages. *Marine and Freshwater Research*, **2010**, 61, 288	2.2	4
8	Contrasted impacts of climate change on stream fish assemblages along an environmental gradient. *Diversity and Distributions*, **2009**, 15, 613-626	5	81
7	Modeling the impact of landscape types on the distribution of stream fish species. *Canadian Journal of Fisheries and Aquatic Sciences*, **2009**, 66, 484-495	2.4	9
6	Climate Change and the Future of Freshwater Biodiversity in Europe: A Primer for Policy-Makers. *Freshwater Reviews: A Journal of the Freshwater Biological Association*, **2009**, 2, 103-130		62
5	Climate change hastens the turnover of stream fish assemblages. *Global Change Biology*, **2008**, 14, 2232-2248	11.4	186
4	Stream fish assemblages and basin land cover in a river network. *Science of the Total Environment*, **2006**, 365, 140-53	10.2	40
3	Spatio-temporal patterns of fish assemblages in coastal West African rivers: a self-organizing map approach. *Aquatic Living Resources*, **2006**, 19, 361-370	1.5	19
2	POPULATION DYNAMICS OF MOTTLED SCULPIN (PISCES) IN A VARIABLE ENVIRONMENT: INFORMATION THEORETIC APPROACHES. *Ecological Monographs*, **2006**, 76, 217-234	9	55
1	Abundance and species richness as a function of food resources and vegetation structure: juvenile fish assemblages in rivers. *Ecography*, **2002**, 25, 641-650	6.5	76