

# Gaël Grenouillet

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

5,221  
citations

109311

35  
h-index

91872

69  
g-index

71  
all docs

71  
docs citations

71  
times ranked

7357  
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncertainty in ensemble forecasting of species distribution. <i>Global Change Biology</i> , 2010, 16, 1145-1157.	9.5	537
2	Species better track climate warming in the oceans than on land. <i>Nature Ecology and Evolution</i> , 2020, 4, 1044-1059.	7.8	359
3	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> , 2015, 24, 728-740.	5.8	338
4	Decomposing functional $\hat{\beta}$ -diversity reveals that low functional $\hat{\beta}$ -diversity is driven by low functional turnover in European fish assemblages. <i>Global Ecology and Biogeography</i> , 2013, 22, 671-681.	5.8	318
5	Climate-induced changes in the distribution of freshwater fish: observed and predicted trends. <i>Freshwater Biology</i> , 2013, 58, 625-639.	2.4	298
6	Ensemble modelling of species distribution: the effects of geographical and environmental ranges. <i>Ecography</i> , 2011, 34, 9-17.	4.5	285
7	Climate change hastens the turnover of stream fish assemblages. <i>Global Change Biology</i> , 2008, 14, 2232-2248.	9.5	226
8	Do stream fish track climate change? Assessing distribution shifts in recent decades. <i>Ecography</i> , 2013, 36, 1236-1246.	4.5	196
9	Toward a loss of functional diversity in stream fish assemblages under climate change. <i>Global Change Biology</i> , 2013, 19, 387-400.	9.5	160
10	Unlocking biodiversity and conservation studies in high-diversity environments using environmental DNA (eDNA): A test with Guianese freshwater fishes. <i>Molecular Ecology Resources</i> , 2019, 19, 27-46.	4.8	135
11	Functional homogenization exceeds taxonomic homogenization among European fish assemblages. <i>Global Ecology and Biogeography</i> , 2014, 23, 1450-1460.	5.8	127
12	Global imprint of historical connectivity on freshwater fish biodiversity. <i>Ecology Letters</i> , 2014, 17, 1130-1140.	6.4	121
13	Contrasted impacts of climate change on stream fish assemblages along an environmental gradient. <i>Diversity and Distributions</i> , 2009, 15, 613-626.	4.1	103
14	Abundance and species richness as a function of food resources and vegetation structure: juvenile fish assemblages in rivers. <i>Ecography</i> , 2002, 25, 641-650.	4.5	98
15	A scenario for impacts of water availability loss due to climate change on riverine fish extinction rates. <i>Journal of Applied Ecology</i> , 2013, 50, 1105-1115.	4.0	90
16	Non-native species disrupt the worldwide patterns of freshwater fish body size: implications for Bergmann's rule. <i>Ecology Letters</i> , 2010, 13, 421-431.	6.4	88
17	Evidence of indiscriminate fishing effects in one of the world's largest inland fisheries. <i>Scientific Reports</i> , 2018, 8, 8947.	3.3	84
18	Evidence of Water Quality Degradation in Lower Mekong Basin Revealed by Self-Organizing Map. <i>PLoS ONE</i> , 2016, 11, e0145527.	2.5	84

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19	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> , 2009, 2, 103-130.	1.0	80
20	Species traits and phylogenetic conservatism of climate-induced range shifts in stream fishes. <i>Nature Communications</i> , 2014, 5, 5023.	12.8	79
21	Non-native species led to marked shifts in functional diversity of the world freshwater fish faunas. <i>Ecology Letters</i> , 2018, 21, 1649-1659.	6.4	74
22	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> , 2019, 116, 13434-13439.	7.1	69
23	POPULATION DYNAMICS OF MOTTLED SCULPIN (PISCES) IN A VARIABLE ENVIRONMENT: INFORMATION THEORETIC APPROACHES. <i>Ecological Monographs</i> , 2006, 76, 217-234.	5.4	63
24	Species distribution modelling and imperfect detection: comparing occupancy versus consensus methods. <i>Diversity and Distributions</i> , 2013, 19, 996-1007.	4.1	58
25	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> , 2018, 27, 213-222.	5.8	56
26	Small-scale gold mining erodes fish assemblage structure in small neotropical streams. <i>Biodiversity and Conservation</i> , 2011, 20, 1013-1026.	2.6	55
27	Species contribute differently to the taxonomic, functional, and phylogenetic alpha and beta diversity of freshwater fish communities. <i>Diversity and Distributions</i> , 2014, 20, 1235-1244.	4.1	55
28	Host characteristics and environmental factors differentially drive the burden and pathogenicity of an ectoparasite: a multilevel causal analysis. <i>Journal of Animal Ecology</i> , 2011, 80, 657-667.	2.8	53
29	Stream fish assemblages and basin land cover in a river network. <i>Science of the Total Environment</i> , 2006, 365, 140-153.	8.0	51
30	Evidence that elevated water temperature affects the reproductive physiology of the European bullhead <i>Cottus gobio</i> . <i>Fish Physiology and Biochemistry</i> , 2012, 38, 389-399.	2.3	49
31	Drivers of freshwater fish colonisations and extirpations under climate change. <i>Ecography</i> , 2015, 38, 510-519.	4.5	44
32	Regional vs local drivers of phylogenetic and species diversity in stream fish communities. <i>Freshwater Biology</i> , 2014, 59, 450-462.	2.4	43
33	Distribution shifts of freshwater fish under a variable climate: comparing climatic, bioclimatic and biotic velocities. <i>Diversity and Distributions</i> , 2015, 21, 1014-1026.	4.1	41
34	Illuminating geographical patterns in species' range shifts. <i>Global Change Biology</i> , 2014, 20, 3080-3091.	9.5	40
35	Taxonomic and functional diversity patterns reveal different processes shaping European and Amazonian stream fish assemblages. <i>Journal of Biogeography</i> , 2016, 43, 1832-1843.	3.0	38
36	Influence of small-scale gold mining on French Guiana streams: Are diatom assemblages valid disturbance sensors?. <i>Ecological Indicators</i> , 2012, 14, 100-106.	6.3	37

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37	Environmental determinants of fish community structure in gravel pit lakes. <i>Ecology of Freshwater Fish</i> , 2016, 25, 412-421.	1.4	34
38	Large-scale patterns of fish diversity and assemblage structure in the longest tropical river in Asia. <i>Ecology of Freshwater Fish</i> , 2017, 26, 575-585.	1.4	34
39	Indirect effect of temperature on fish population abundances through phenological changes. <i>PLoS ONE</i> , 2017, 12, e0175735.	2.5	34
40	Toward an ecological understanding of a flood-pulse system lake in a tropical ecosystem: Food web structure and ecosystem health. <i>Ecological Modelling</i> , 2016, 323, 1-11.	2.5	29
41	Spatio-temporal patterns of fish assemblages in coastal West African rivers: a self-organizing map approach. <i>Aquatic Living Resources</i> , 2006, 19, 361-370.	1.2	25
42	Spatial synchrony in stream fish populations: influence of species traits. <i>Ecography</i> , 2014, 37, 960-968.	4.5	25
43	Natural abiotic factors more than anthropogenic perturbation shape the invasion of Eastern Mosquitofish ( <i>Gambusia holbrooki</i> ). <i>Freshwater Science</i> , 2015, 34, 965-974.	1.8	25
44	Fish assemblage responses to flow seasonality and predictability in a tropical flood pulse system. <i>Ecosphere</i> , 2018, 9, e02366.	2.2	24
45	Spatial mismatch in morphological, ecological and phylogenetic diversity, in historical and contemporary European freshwater fish faunas. <i>Ecography</i> , 2018, 41, 1665-1674.	4.5	23
46	Intra- and interspecific differences in nutrient recycling by European freshwater fish. <i>Freshwater Biology</i> , 2012, 57, 2330-2341.	2.4	21
47	Responses of spawning thermal suitability to climate change and hydropower operation for typical fishes below the Three Gorges Dam. <i>Ecological Indicators</i> , 2021, 121, 107186.	6.3	21
48	Behavioral response of juvenile rainbow trout exposed to an herbicide mixture. <i>Ecotoxicology and Environmental Safety</i> , 2015, 112, 15-21.	6.0	20
49	Increased taxonomic and functional similarity does not increase the trophic similarity of communities. <i>Global Ecology and Biogeography</i> , 2016, 25, 46-54.	5.8	19
50	Community disassembly under global change: Evidence in favor of the stress-dominance hypothesis. <i>Global Change Biology</i> , 2018, 24, 4417-4427.	9.5	19
51	Species range shifts in response to climate change and human pressure for the world's largest amphibian. <i>Science of the Total Environment</i> , 2020, 735, 139543.	8.0	19
52	Spatial range shape drives the grain size effects in species distribution models. <i>Ecography</i> , 2013, 36, 778-787.	4.5	17
53	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> , 2018, 27, 1087-1100.	1.4	17
54	Spatial patterns and determinants of trait dispersion in freshwater fish assemblages across Europe. <i>Global Ecology and Biogeography</i> , 2019, 28, 826-838.	5.8	16

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55	Combining genetic and demographic data for prioritizing conservation actions: insights from a threatened fish species. <i>Ecology and Evolution</i> , 2013, 3, 2696-2710.	1.9	14
56	Impact of seasonal hydrological variation on tropical fish assemblages: abrupt shift following an extreme flood event. <i>Ecosphere</i> , 2020, 11, e03303.	2.2	14
57	Dealing with Noisy Absences to Optimize Species Distribution Models: An Iterative Ensemble Modelling Approach. <i>PLoS ONE</i> , 2012, 7, e49508.	2.5	14
58	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> , 2020, 711, 134661.	8.0	13
59	Measurements of spatial population synchrony: influence of time series transformations. <i>Oecologia</i> , 2015, 179, 15-28.	2.0	12
60	Climate interacts with anthropogenic drivers to determine extirpation dynamics. <i>Ecography</i> , 2016, 39, 1008-1016.	4.5	12
61	Interactions between species attributes explain population dynamics in stream fishes under changing climate. <i>Ecosphere</i> , 2018, 9, e02061.	2.2	12
62	The iterative ensemble modelling approach increases the accuracy of fish distribution models. <i>Ecography</i> , 2015, 38, 213-220.	4.5	10
63	Phenotypic variation as an indicator of pesticide stress in gudgeon: Accounting for confounding factors in the wild. <i>Science of the Total Environment</i> , 2015, 538, 733-742.	8.0	10
64	A New Freshwater Biodiversity Indicator Based on Fish Community Assemblages. <i>PLoS ONE</i> , 2013, 8, e80968.	2.5	10
65	Modeling the impact of landscape types on the distribution of stream fish species. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2009, 66, 484-495.	1.4	9
66	Fish Community Responses to Human-Induced Stresses in the Lower Mekong Basin. <i>Water (Switzerland)</i> , 2020, 12, 3522.	2.7	9
67	Effects of an anti-salt intrusion dam on tropical fish assemblages. <i>Marine and Freshwater Research</i> , 2010, 61, 288.	1.3	7
68	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> , 2016, 27, 4211-4212.	0.7	6
69	Comment on "Forest microclimate dynamics drive plant responses to warming". <i>Science</i> , 2020, 370, .	12.6	6
70	Phylogenetic signal and evolutionary relationships among traits of inland fishes along elevational and longitudinal gradients. <i>Freshwater Biology</i> , 2022, 67, 912-925.	2.4	6
71	Reply to: "Flooding is a key driver of the Tonle Sap dai fishery in Cambodia". <i>Scientific Reports</i> , 2021, 11, 3815.	3.3	3