

Sebastien Brosse

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109
papers

4,398
citations

38
h-index

64
g-index

117
ext. papers

5,501
ext. citations

5
avg, IF

5.67
L-index

#	Paper	IF	Citations
109	Fish invasions in the world's river systems: when natural processes are blurred by human activities. <i>PLoS Biology</i> , 2008 , 6, e28	9.7	240
108	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	6.1	222
107	Decomposing functional diversity reveals that low functional diversity is driven by low functional turnover in European fish assemblages. <i>Global Ecology and Biogeography</i> , 2013 , 22, 671-681	6.1	222
106	Partitioning global patterns of freshwater fish beta diversity reveals contrasting signatures of past climate changes. <i>Ecology Letters</i> , 2011 , 14, 325-34	10	198
105	Conservation Strategies for Endemic Fish Species Threatened by the Three Gorges Dam. <i>Conservation Biology</i> , 2003 , 17, 1748-1758	6	174
104	Homogenization patterns of the world's freshwater fish faunas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18003-8	11.5	150
103	Functional ecology of fish: current approaches and future challenges. <i>Aquatic Sciences</i> , 2017 , 79, 783-801	11.5	141
102	Scientific uncertainty and the assessment of risks posed by non-native freshwater fishes. <i>Fish and Fisheries</i> , 2009 , 10, 88-97	6	94
101	Functional homogenization exceeds taxonomic homogenization among European fish assemblages. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1450-1460	6.1	92
100	The use of artificial neural networks to assess fish abundance and spatial occupancy in the littoral zone of a mesotrophic lake. <i>Ecological Modelling</i> , 1999 , 120, 299-311	3	90
99	A global database on freshwater fish species occurrence in drainage basins. <i>Scientific Data</i> , 2017 , 4, 170181	11.1	89
98	Global imprint of historical connectivity on freshwater fish biodiversity. <i>Ecology Letters</i> , 2014 , 17, 1130-40	10	88
97	Global diversity patterns and cross-taxa convergence in freshwater systems. <i>Journal of Animal Ecology</i> , 2013 , 82, 365-76	4.7	88
96	Utilisation of non-supervised neural networks and principal component analysis to study fish assemblages. <i>Ecological Modelling</i> , 2001 , 146, 159-166	3	86
95	Contrasting patterns and mechanisms of spatial turnover for native and exotic freshwater fish in Europe. <i>Journal of Biogeography</i> , 2009 , 36, 1899-1912	4.1	85
94	Rapid evaluation of threats to biodiversity: human footprint score and large vertebrate species responses in French Guiana. <i>Biodiversity and Conservation</i> , 2010 , 19, 1567-1584	3.4	85
93	Hydrological disturbance benefits a native fish at the expense of an exotic fish. <i>Journal of Applied Ecology</i> , 2006 , 43, 930-939	5.8	84

92	Competitive interactions between native and exotic salmonids: a combined field and laboratory demonstration. <i>Ecology of Freshwater Fish</i> , 2007 , 16, 133-143	2.1	81
91	Global and Regional Patterns in Riverine Fish Species Richness: A Review. <i>International Journal of Ecology</i> , 2011 , 2011, 1-12	1.9	80
90	Assessment of large-vertebrate species richness and relative abundance in Neotropical forest using line-transect censuses: what is the minimal effort required?. <i>Biodiversity and Conservation</i> , 2008 , 17, 2627-2644	3.4	80
89	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	8.4	74
88	Non-native species disrupt the worldwide patterns of freshwater fish body size: implications for Bergmann's rule. <i>Ecology Letters</i> , 2010 , 13, 421-31	10	73
87	Patterns and processes of global riverine fish endemism. <i>Global Ecology and Biogeography</i> , 2012 , 21, 977-987	6.1	67
86	Human impacts on global freshwater fish biodiversity. <i>Science</i> , 2021 , 371, 835-838	33.3	65
85	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	5.8	63
84	Concordance among stream assemblages and spatial autocorrelation along a fragmented gradient. <i>Diversity and Distributions</i> , 2007 , 14, 592-603	5	61
83	Fish-SPRICH: a database of freshwater fish species richness throughout the World. <i>Hydrobiologia</i> , 2013 , 700, 343-349	2.4	60
82	Habitat scale and biodiversity: influence of catchment, stream reach and bedform scales on local invertebrate diversity. <i>Biodiversity and Conservation</i> , 2003 , 12, 2057-2075	3.4	49
81	Anthropogenic stressors and riverine fish extinctions. <i>Ecological Indicators</i> , 2017 , 79, 37-46	5.8	47
80	Optimizing environmental DNA sampling effort for fish inventories in tropical streams and rivers. <i>Scientific Reports</i> , 2019 , 9, 3085	4.9	45
79	Worldwide freshwater fish homogenization is driven by a few widespread non-native species. <i>Biological Invasions</i> , 2016 , 18, 1295-1304	2.7	45
78	Geographic isolation and climate govern the functional diversity of native fish communities in European drainage basins. <i>Global Ecology and Biogeography</i> , 2012 , 21, 1083-1095	6.1	42
77	Small-scale gold mining erodes fish assemblage structure in small neotropical streams. <i>Biodiversity and Conservation</i> , 2011 , 20, 1013-1026	3.4	42
76	Non-native species led to marked shifts in functional diversity of the world freshwater fish faunas. <i>Ecology Letters</i> , 2018 , 21, 1649-1659	10	42
75	Broad-scale determinants of non-native fish species richness are context-dependent. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 2385-94	4.4	41

74	Fish assemblage patterns in the littoral zone of a European reservoir. <i>Freshwater Biology</i> , 2007 , 52, 448-458	5.8	40
73	Seventy-five years of biodiversity decline of fish assemblages in Chinese isolated plateau lakes: widespread introductions and extirpations of narrow endemics lead to regional loss of dissimilarity. <i>Diversity and Distributions</i> , 2017 , 23, 171-184	5	39
72	Nested patterns of spatial diversity revealed for fish assemblages in a west European river. <i>Ecology of Freshwater Fish</i> , 2005 , 14, 233-242	2.1	38
71	Chinese Sturgeon (<i>Acipenser sinensis</i>) in the Yangtze River: a hydroacoustic assessment of fish location and abundance on the last spawning ground. <i>Journal of Applied Ichthyology</i> , 2006 , 22, 140-144	0.9	36
70	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	11.5	35
69	Macroinvertebrate richness patterns in North African streams. <i>Journal of Biogeography</i> , 2003 , 30, 1821-1833	1.3	35
68	Historical assemblage distinctiveness and the introduction of widespread non-native species explain worldwide changes in freshwater fish taxonomic dissimilarity. <i>Global Ecology and Biogeography</i> , 2014 , 23, 574-584	6.1	34
67	Modelling roach (<i>Rutilus rutilus</i>) microhabitat using linear and nonlinear techniques. <i>Freshwater Biology</i> , 2000 , 44, 441-452	3.1	33
66	Identifying climatic niche shifts using coarse-grained occurrence data: a test with non-native freshwater fish. <i>Global Ecology and Biogeography</i> , 2011 , 20, 407-414	6.1	32
65	Influence of habitat structure and fish density on Atlantic salmon <i>Salmo salar</i> L. territorial behaviour. <i>Journal of Fish Biology</i> , 2006 , 68, 951-957	1.9	32
64	Abundance, diversity, and structure of freshwater invertebrates and fish communities: An artificial neural network approach. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2001 , 35, 135-145	1.3	32
63	Regional vs local drivers of phylogenetic and species diversity in stream fish communities. <i>Freshwater Biology</i> , 2014 , 59, 450-462	3.1	31
62	Effects of damming on population sustainability of Chinese sturgeon, <i>Acipenser sinensis</i> : evaluation of optimal conservation measures. <i>Environmental Biology of Fishes</i> , 2009 , 86, 325-336	1.6	30
61	Behaviour of roach (<i>Rutilus rutilus</i> L.) altered by <i>Ligula intestinalis</i> (Cestoda: Pseudophyllidea): a field demonstration. <i>Freshwater Biology</i> , 2001 , 46, 1219-1227	3.1	29
60	Predicting fish distribution in a mesotrophic lake by hydroacoustic survey and artificial neural networks. <i>Limnology and Oceanography</i> , 1999 , 44, 1293-1303	4.8	29
59	Influence of small-scale gold mining on French Guiana streams: Are diatom assemblages valid disturbance sensors?. <i>Ecological Indicators</i> , 2012 , 14, 100-106	5.8	28
58	From current distinctiveness to future homogenization of the world's freshwater fish faunas. <i>Diversity and Distributions</i> , 2015 , 21, 223-235	5	27
57	Taxonomic and functional diversity patterns reveal different processes shaping European and Amazonian stream fish assemblages. <i>Journal of Biogeography</i> , 2016 , 43, 1832-1843	4.1	26

56	Electrofishing efficiency in low conductivity neotropical streams: towards a non-destructive fish sampling method. <i>Fisheries Management and Ecology</i> , 2014 , 21, 234-243	1.8	24
55	A global database of nitrogen and phosphorus excretion rates of aquatic animals. <i>Ecology</i> , 2017 , 98, 1475-1486	4.6	23
54	Effect of reduced impact logging and small-scale mining disturbances on Neotropical stream fish assemblages. <i>Aquatic Sciences</i> , 2016 , 78, 315-325	2.5	23
53	A comprehensive examination of the network position hypothesis across multiple river metacommunities. <i>Ecography</i> , 2019 , 42, 284-294	6.5	23
52	Relationships between Environmental Characteristics and the Density of Age-0 Eurasian Perch <i>Perca fluviatilis</i> in the Littoral Zone of a Lake: A Nonlinear Approach. <i>Transactions of the American Fisheries Society</i> , 2002 , 131, 1033-1043	1.7	23
51	Intra- and interspecific differences in nutrient recycling by European freshwater fish. <i>Freshwater Biology</i> , 2012 , 57, 2330-2341	3.1	19
50	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	1.5	19
49	Microsatellites assessment of Chinese sturgeon (<i>Acipenser sinensis</i> Gray) genetic variability. <i>Journal of Applied Ichthyology</i> , 2005 , 21, 7-13	0.9	19
48	Is scuba sampling a relevant method to study fish microhabitat in lakes? Examples and comparisons for three European species. <i>Ecology of Freshwater Fish</i> , 2001 , 10, 138-146	2.1	19
47	The combined effects of climate change and river fragmentation on the distribution of Andean Amazon fishes. <i>Global Change Biology</i> , 2020 , 26, 5509-5523	11.4	19
46	Measuring changes in taxonomic dissimilarity following species introductions and extirpations. <i>Ecological Indicators</i> , 2012 , 18, 552-558	5.8	18
45	Erosion of global functional diversity across the tree of life. <i>Science Advances</i> , 2021 , 7,	14.3	17
44	Measuring ecosystem degradation through half a century of fish species introductions and extirpations in a large isolated lake. <i>Ecological Indicators</i> , 2015 , 58, 104-112	5.8	16
43	Morphological diversity of freshwater fishes differs between realms, but morphologically extreme species are widespread. <i>Global Ecology and Biogeography</i> , 2019 , 28, 211-221	6.1	16
42	Spatial range shape drives the grain size effects in species distribution models. <i>Ecography</i> , 2013 , 36, 778-787	6.7	15
41	Disentangling spatial and environmental determinants of fish species richness and assemblage structure in Neotropical rainforest streams. <i>Freshwater Biology</i> , 2017 , 62, 1707-1720	3.1	15
40	Influence of some topographical variables on the spatial distribution of lake fish during summer stratification. <i>Fundamental and Applied Limnology</i> , 1999 , 145, 359-371	1.9	15
39	Local rise of phylogenetic diversity due to invasions and extirpations leads to a regional phylogenetic homogenization of fish fauna from Chinese isolated plateau lakes. <i>Ecological Indicators</i> , 2019 , 101, 388-398	5.8	14

38	Spatial mismatch in morphological, ecological and phylogenetic diversity, in historical and contemporary European freshwater fish faunas. <i>Ecography</i> , 2018 , 41, 1665-1674	6.5	13
37	Influence of Local Habitat and Climatic Factors on the Distribution of Fish Species in the Tonle Sap Lake. <i>Water (Switzerland)</i> , 2020 , 12, 786	3	12
36	Advances and prospects of environmental DNA in neotropical rainforests. <i>Advances in Ecological Research</i> , 2020 , 331-373	4.6	12
35	Determinants of life-history traits in a fish ectoparasite: a hierarchical analysis. <i>Parasitology</i> , 2011 , 138, 848-57	2.7	12
34	Encounter rate between local populations shapes host selection in complex parasite life cycle. <i>Biological Journal of the Linnean Society</i> , 2006 , 89, 99-106	1.9	12
33	Fish spatial distribution in the littoral zone of Lake Pareloup (France) during summer. <i>Fundamental and Applied Limnology</i> , 2001 , 153, 129-144	1.9	11
32	Dealing with noisy absences to optimize species distribution models: an iterative ensemble modelling approach. <i>PLoS ONE</i> , 2012 , 7, e49508	3.7	11
31	The iterative ensemble modelling approach increases the accuracy of fish distribution models. <i>Ecography</i> , 2015 , 38, 213-220	6.5	8
30	Determinants of fish assemblage structure in Mount Itoup mountain streams (French Guiana). <i>Annales De Limnologie</i> , 2013 , 49, 43-49	0.7	8
29	A diagnosis-based approach to assess specific risks of river degradation in a multiple pressure context: Insights from fish communities. <i>Science of the Total Environment</i> , 2020 , 734, 139467	10.2	6
28	Morphological sorting of introduced freshwater fish species within and between donor realms. <i>Global Ecology and Biogeography</i> , 2020 , 29, 803-813	6.1	6
27	Aquatic eDNA for monitoring French Guiana biodiversity. <i>Biodiversity Data Journal</i> , 2019 , 7, e37518	1.8	6
26	Comparing the performance of 12S mitochondrial primers for fish environmental DNA across ecosystems. <i>Environmental DNA</i> ,	7.6	6
25	Aquatic Insect Assemblage Patterns in Four West-African Coastal Rivers. <i>Journal of Biological Sciences</i> , 2007 , 7, 1130-1138	0.4	5
24	Temporal Dynamics of Fish Assemblages as a Reflection of Policy Shift from Fishing Concession to Co-Management in One of the World's Largest Tropical Flood Pulse Fisheries. <i>Water (Switzerland)</i> , 2020 , 12, 2974	3	4
23	Species composition and temporal pattern of fish passing through the navigation locks in the middle reach of Yangtze River: implications for fish conservation. <i>Journal of Applied Ichthyology</i> , 2013 , 29, 1441-1444	0.9	4
22	The influence of the invasive black bullhead <i>Ameiurus melas</i> on the predatory efficiency of pike <i>Esox lucius</i> L.. <i>Journal of Fish Biology</i> , 2008 , 73, 196-205	1.9	4
21	FISHMORPH: A global database on morphological traits of freshwater fishes. <i>Global Ecology and Biogeography</i> ,	6.1	4

20	Amazonian mammal monitoring using aquatic environmental DNA. <i>Molecular Ecology Resources</i> , 2021 , 21, 1875-1888	8.4	3
19	Threatened fishes of the World: <i>Acipenser sinensis</i> Gray, 1834 (Acipenseriformes: Acipenseridae). <i>Environmental Biology of Fishes</i> , 2009 , 84, 183-184	1.6	2
18	Threatened fishes of the world: <i>Acipenser dabryanus</i> Duménil, 1869. <i>Environmental Biology of Fishes</i> , 2009 , 85, 117-118	1.6	2
17	Changes in roach (<i>Rutilus rutilus</i> L.) population structure induced on draining a large reservoir. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 1999 , 322, 331-338		2
16	Characterizing the spatial signal of environmental DNA in river systems using a community ecology approach. <i>Molecular Ecology Resources</i> , 2021 ,	8.4	2
15	Global patterns and predictors of trophic position, body size and jaw size in fishes. <i>Global Ecology and Biogeography</i> , 2021 , 30, 414-428	6.1	2
14	Detecting fish assemblages with environmental DNA: Does protocol matter? Testing eDNA metabarcoding method robustness. <i>Environmental DNA</i> , 2021 , 3, 619-630	7.6	2
13	Aquarium trade and fish farms as a source of non-native freshwater fish introductions in French Guiana. <i>Annales De Limnologie</i> , 2021 , 57, 4	0.7	2
12	Extinction of threatened vertebrates will lead to idiosyncratic changes in functional diversity across the world. <i>Nature Communications</i> , 2021 , 12, 5162	17.4	2
11	Length-weight relationships of 58 fish species in French Guiana streams. <i>Journal of Applied Ichthyology</i> , 2015 , 31, 567-570	0.9	1
10	Threatened fishes of the world: <i>Psephurus gladius</i> (Martens, 1862) (Acipenseriformes: polyodontidae). <i>Environmental Biology of Fishes</i> , 2009 , 84, 421-422	1.6	1
9	Fishes of the Mitaraka Mountains (French Guiana). <i>Zoosystema</i> , 2019 , 40, 131	0.7	1
8	Contemporary environment and historical legacy explain functional diversity of freshwater fishes in the world rivers. <i>Global Ecology and Biogeography</i> , 2022 , 31, 700-713	6.1	1
7	Role of fish communities in particulate organic matter fluxes between salt marshes and coastal marine waters in the Mont Saint-Michel Bay 1998 , 121-133		0
6	Unraveling the dietary diversity of Neotropical top predators using scat DNA metabarcoding: A case study on the elusive Giant Otter. <i>Environmental DNA</i> , 2021 , 3, 889-900	7.6	0
5	Elaboration of a biotic index of pollution using macroinvertebrates for the monitoring of Lake Nokoué in Benin. <i>International Journal of Biological and Chemical Sciences</i> , 2016 , 9, 2987	0.3	
4	Ontogenetic microhabitat shifts of 0+ rudd (<i>Scardinius erythrophthalmus</i> L.) in the littoral zone of a mesotrophic lake. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000 , 27, 2063-2065		
3	Linear and non-linear methods to predict the microhabitat of 0+ roach (<i>Rutilus rutilus</i> L.) in the littoral zone of a large reservoir. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000 , 27, 811-814		

2	Do Morphological Traits Predict Ecological Guilds of the Mekong Fish Fauna?. <i>Sustainability</i> , 2021 , 13, 8401	3.6
1	NEOTROPICAL FRESHWATER FISHES: A dataset of occurrence and abundance of freshwater fishes in the Neotropics.. <i>Ecology</i> , 2022 , e3713	4.6