Sebastien Brosse

List of Publications by Year
in descending order

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111 papers	6,538 citations	66336 42 h-index	71682 76 g-index
117 all docs	117 docs citations	117 times ranked	6847 citing authors

#	Article	IF	Citations
1	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.	5.8	338
2	Fish Invasions in the World's River Systems: When Natural Processes Are Blurred by Human Activities. PLoS Biology, 2008, 6, e28.	5.6	324
3	Decomposing functional Î²-diversity reveals that low functional Î²-diversity is driven by low functional turnover in European fish assemblages. Global Ecology and Biogeography, 2013, 22, 671-681.	5.8	318
4	Functional ecology of fish: current approaches and future challenges. Aquatic Sciences, 2017, 79, 783-801.	1.5	270
5	Human impacts on global freshwater fish biodiversity. Science, 2021, 371, 835-838.	12.6	262
6	Partitioning global patterns of freshwater fish beta diversity reveals contrasting signatures of past climate changes. Ecology Letters, 2011, 14, 325-334.	6.4	260
7	Conservation Strategies for Endemic Fish Species Threatened by the Three Gorges Dam. Conservation Biology, 2003, 17, 1748-1758.	4.7	197
8	Homogenization patterns of the worldâ€™s freshwater fish faunas. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18003-18008.	7.1	197
9	A global database on freshwater fish species occurrence in drainage basins. Scientific Data, 2017, 4, 170141.	5.3	145
10	Unlocking biodiversity and conservation studies in highâ€diversity environments using environmental DNA (eDNA): A test with Guianese freshwater fishes. Molecular Ecology Resources, 2019, 19, 27-46.	4.8	135
11	Functional homogenization exceeds taxonomic homogenization among <scp>E</scp>uropean fish assemblages. Global Ecology and Biogeography, 2014, 23, 1450-1460.	5.8	127
12	Scientific uncertainty and the assessment of risks posed by nonâ€native freshwater fishes. Fish and Fisheries, 2009, 10, 88-97.	5.3	121
13	Global imprint of historical connectivity on freshwater fish biodiversity. Ecology Letters, 2014, 17, 1130-1140.	6.4	121
14	Erosion of global functional diversity across the tree of life. Science Advances, 2021, 7, .	10.3	114
15	The use of artificial neural networks to assess fish abundance and spatial occupancy in the littoral zone of a mesotrophic lake. Ecological Modelling, 1999, 120, 299-311.	2.5	112
16	Global and Regional Patterns in Riverine Fish Species Richness: A Review. International Journal of Ecology, 2011, 2011, 1-12.	0.8	106
17	Global diversity patterns and crossâ€taxa convergence in freshwater systems. Journal of Animal Ecology, 2013, 82, 365-376.	2.8	105
18	Contrasting patterns and mechanisms of spatial turnover for native and exotic freshwater fish in Europe. Journal of Biogeography, 2009, 36, 1899-1912.	3.0	101

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19	Utilisation of non-supervised neural networks and principal component analysis to study fish assemblages. Ecological Modelling, 2001, 146, 159-166.	2.5	98
20	Competitive interactions between native and exotic salmonids: a combined field and laboratory demonstration. Ecology of Freshwater Fish, 2007, 16, 133-143.	1.4	97
21	Rapid evaluation of threats to biodiversity: human footprint score and large vertebrate species responses in French Guiana. Biodiversity and Conservation, 2010, 19, 1567-1584.	2.6	96
22	Optimizing environmental DNA sampling effort for fish inventories in tropical streams and rivers. Scientific Reports, 2019, 9, 3085.	3.3	93
23	Hydrological disturbance benefits a native fish at the expense of an exotic fish. Journal of Applied Ecology, 2006, 43, 930-939.	4.0	91
24	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.	4.0	90
25	Assessment of large-vertebrate species richness and relative abundance in Neotropical forest using line-transect censuses: what is the minimal effort required?. Biodiversity and Conservation, 2008, 17, 2627-2644.	2.6	89
26	Nonâ€native species disrupt the worldwide patterns of freshwater fish body size: implications for Bergmannâ€™s rule. Ecology Letters, 2010, 13, 421-431.	6.4	88
27	Anthropogenic stressors and riverine fish extinctions. Ecological Indicators, 2017, 79, 37-46.	6.3	80
28	Patterns and processes of global riverine fish endemism. Global Ecology and Biogeography, 2012, 21, 977-987.	5.8	75
29	Nonâ€native species led to marked shifts in functional diversity of the world freshwater fish faunas. Ecology Letters, 2018, 21, 1649-1659.	6.4	74
30	Fish-SPRICH: a database of freshwater fish species richness throughout the World. Hydrobiologia, 2013, 700, 343-349.	2.0	73
31	Seventyâ€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. Diversity and Distributions, 2017, 23, 171-184.	4.1	73
32	Concordance among stream assemblages and spatial autocorrelation along a fragmented gradient. Diversity and Distributions, 2008, 14, 592-603.	4.1	72
33	Drainage network position and historical connectivity explain global patterns in freshwater fishesâ€™ range size. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13434-13439.	7.1	69
34	Worldwide freshwater fish homogenization is driven by a few widespread non-native species. Biological Invasions, 2016, 18, 1295-1304.	2.4	63
35	Title is missing!. Biodiversity and Conservation, 2003, 12, 2057-2075.	2.6	56
36	Small-scale gold mining erodes fish assemblage structure in small neotropical streams. Biodiversity and Conservation, 2011, 20, 1013-1026.	2.6	55

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37	Geographic isolation and climate govern the functional diversity of native fish communities in European drainage basins. Global Ecology and Biogeography, 2012, 21, 1083-1095.	5.8	55
38	A comprehensive examination of the network position hypothesis across multiple river metacommunities. Ecography, 2019, 42, 284-294.	4.5	54
39	The combined effects of climate change and river fragmentation on the distribution of Andean Amazon fishes. Global Change Biology, 2020, 26, 5509-5523.	9.5	50
40	Broad-scale determinants of non-native fish species richness are context-dependent. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2385-2394.	2.6	49
41	Identifying climatic niche shifts using coarse-grained occurrence data: a test with non-native freshwater fish. Global Ecology and Biogeography, 2011, 20, 407-414.	5.8	49
42	Effects of damming on population sustainability of Chinese sturgeon, Acipenser sinensis: evaluation of optimal conservation measures. Environmental Biology of Fishes, 2009, 86, 325-336.	1.0	48
43	FISHMORPH: A global database on morphological traits of freshwater fishes. Global Ecology and Biogeography, 2021, 30, 2330-2336.	5.8	45
44	Historical assemblage distinctiveness and the introduction of widespread nonâ€native species explain worldwide changes in freshwater fish taxonomic dissimilarity. Global Ecology and Biogeography, 2014, 23, 574-584.	5.8	44
45	Fish assemblage patterns in the littoral zone of a European reservoir. Freshwater Biology, 2007, 52, 448-458.	2.4	43
46	Regional vs local drivers of phylogenetic and species diversity in stream fish communities. Freshwater Biology, 2014, 59, 450-462.	2.4	43
47	Modelling roach (Rutilus rutilus) microhabitat using linear and nonlinear techniques. Freshwater Biology, 2000, 44, 441-452.	2.4	41
48	Nested patterns of spatial diversity revealed for fish assemblages in a west European river. Ecology of Freshwater Fish, 2005, 14, 233-242.	1.4	41
49	Macroinvertebrate richness patterns in North African streams. Journal of Biogeography, 2003, 30, 1821-1833.	3.0	40
50	Behaviour of roach (Rutilus rutilus L.) altered by Ligula intestinalis (Cestoda: Pseudophyllidea): a field demonstration. Freshwater Biology, 2001, 46, 1219-1227.	2.4	39
51	Taxonomic and functional diversity patterns reveal different processes shaping European and Amazonian stream fish assemblages. Journal of Biogeography, 2016, 43, 1832-1843.	3.0	38
52	Comparing the performance of 12S mitochondrial primers for fish environmental DNA across ecosystems. Environmental DNA, 2021, 3, 1113-1127.	5.8	38
53	Extinction of threatened vertebrates will lead to idiosyncratic changes in functional diversity across the world. Nature Communications, 2021, 12, 5162.	12.8	38
54	Abundance, diversity, and structure of freshwater invertebrates and fish communities: An artificial neural network approach. New Zealand Journal of Marine and Freshwater Research, 2001, 35, 135-145.	2.0	37

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55	Chinese Sturgeon (Acipenser sinensis) in the Yangtze River: a hydroacoustic assessment of fish location and abundance on the last spawning ground. Journal of Applied Ichthyology, 2006, 22, 140-144.	0.7	37
56	Influence of small-scale gold mining on French Guiana streams: Are diatom assemblages valid disturbance sensors?. Ecological Indicators, 2012, 14, 100-106.	6.3	37
57	Effect of reduced impact logging and small-scale mining disturbances on Neotropical stream fish assemblages. Aquatic Sciences, 2016, 78, 315-325.	1.5	36
58	Morphological diversity of freshwater fishes differs between realms, but morphologically extreme species are widespread. Global Ecology and Biogeography, 2019, 28, 211-221.	5.8	36
59	Predicting fish distribution in a mesotrophic lake by hydroacoustic survey and artificial neural networks. Limnology and Oceanography, 1999, 44, 1293-1303.	3.1	35
60	Influence of habitat structure and fish density on Atlantic salmon Salmo salar L. territorial behaviour. Journal of Fish Biology, 2006, 68, 951-957.	1.6	32
61	From current distinctiveness to future homogenization of the world's freshwater fish faunas. Diversity and Distributions, 2015, 21, 223-235.	4.1	32
62	Electrofishing efficiency in low conductivity neotropical streams: towards a nonâ€destructive fish sampling method. Fisheries Management and Ecology, 2014, 21, 234-243.	2.0	31
63	Advances and prospects of environmental DNA in neotropical rainforests. Advances in Ecological Research, 2020, , 331-373.	2.7	27
64	Relationships between Environmental Characteristics and the Density of Age-0 Eurasian PerchPerca fluviatilisin the Littoral Zone of a Lake: A Nonlinear Approach. Transactions of the American Fisheries Society, 2002, 131, 1033-1043.	1.4	26
65	A global database of nitrogen and phosphorus excretion rates of aquatic animals. Ecology, 2017, 98, 1475-1475.	3.2	26
66	Local rise of phylogenetic diversity due to invasions and extirpations leads to a regional phylogenetic homogenization of fish fauna from Chinese isolated plateau lakes. Ecological Indicators, 2019, 101, 388-398.	6.3	26
67	Spatio-temporal patterns of fish assemblages in coastal West African rivers: a self-organizing map approach. Aquatic Living Resources, 2006, 19, 361-370.	1.2	25
68	Disentangling spatial and environmental determinants of fish species richness and assemblage structure in Neotropical rainforest streams. Freshwater Biology, 2017, 62, 1707-1720.	2.4	25
69	Spatial mismatch in morphological, ecological and phylogenetic diversity, in historical and contemporary European freshwater fish faunas. Ecography, 2018, 41, 1665-1674.	4.5	23
70	Microsatellites assessment of Chinese sturgeon (Acipenser sinensis Gray) genetic variability. Journal of Applied Ichthyology, 2005, 21, 7-13.	0.7	22
71	Measuring changes in taxonomic dissimilarity following species introductions and extirpations. Ecological Indicators, 2012, 18, 552-558.	6.3	22
72	Measuring ecosystem degradation through half a century of fish species introductions and extirpations in a large isolated lake. Ecological Indicators, 2015, 58, 104-112.	6.3	22

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73	Intraâ€•and interspecific differences in nutrient recycling by European freshwater fish. Freshwater Biology, 2012, 57, 2330-2341.	2.4	21
74	Influence of some topographical variables on the spatial distribution of lake fish during summer stratification. Fundamental and Applied Limnology, 1999, 145, 359-371.	0.7	21
75	Is scuba sampling a relevant method to study fish microhabitat in lakes? Examples and comparisons for three European species. Ecology of Freshwater Fish, 2001, 10, 138-146.	1.4	20
76	Characterizing the spatial signal of environmental DNA in river systems using a community ecology approach. Molecular Ecology Resources, 2022, 22, 1274-1283.	4.8	20
77	Spatial range shape drives the grain size effects in species distribution models. Ecography, 2013, 36, 778-787.	4.5	17
78	Influence of Local Habitat and Climatic Factors on the Distribution of Fish Species in the Tonle Sap Lake. Water (Switzerland), 2020, 12, 786.	2.7	17
79	Morphological sorting of introduced freshwater fish species within and between donor realms. Global Ecology and Biogeography, 2020, 29, 803-813.	5.8	17
80	Detecting fish assemblages with environmental DNA: Does protocol matter? Testing eDNA metabarcoding method robustness. Environmental DNA, 2021, 3, 619-630.	5.8	14
81	Dealing with Noisy Absences to Optimize Species Distribution Models: An Iterative Ensemble Modelling Approach. PLoS ONE, 2012, 7, e49508.	2.5	14
82	Aquatic eDNA for monitoring French Guiana biodiversity. Biodiversity Data Journal, 2019, 7, e37518.	0.8	14
83	Contemporary environment and historical legacy explain functional diversity of freshwater fishes in the world rivers. Global Ecology and Biogeography, 2022, 31, 700-713.	5.8	14
84	Encounter rate between local populations shapes host selection in complex parasite life cycle. Biological Journal of the Linnean Society, 2006, 89, 99-106.	1.6	13
85	Fish spatial distribution in the littoral zone of Lake Pareloup (France) during summer. Fundamental and Applied Limnology, 2001, 153, 129-144.	0.7	13
86	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.		13
87	Low level of anthropization linked to harsh vertebrate biodiversity declines in Amazonia. Nature Communications, 2022, 13, .	12.8	13
88	Determinants of life-history traits in a fish ectoparasite: a hierarchical analysis. Parasitology, 2011, 138, 848-857.	1.5	12
89	Temporal Dynamics of Fish Assemblages as a Reflection of Policy Shift from Fishing Concession to Co-Management in One of the Worldâ€™s Largest Tropical Flood Pulse Fisheries. Water (Switzerland), 2020, 12, 2974.	2.7	11
90	Amazonian mammal monitoring using aquatic environmental DNA. Molecular Ecology Resources, 2021, 21, 1875-1888.	4.8	11

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91	Determinants of fish assemblage structure in Mount ItoupÃ© mountain streams (French Guiana). Annales De Limnologie, 2013, 49, 43-49.	0.6	10
92	The iterative ensemble modelling approach increases the accuracy of fish distribution models. Ecography, 2015, 38, 213-220.	4.5	10
93	A diagnosis-based approach to assess specific risks of river degradation in a multiple pressure context: Insights from fish communities. Science of the Total Environment, 2020, 734, 139467.	8.0	10
94	Species composition and temporal pattern of fish passing through the navigation locks in the middle reach of Yangtze River: implications for fish conservation. Journal of Applied Ichthyology, 2013, 29, 1441-1444.	0.7	9
95	Global patterns and predictors of trophic position, body size and jaw size in fishes. Global Ecology and Biogeography, 2021, 30, 414-428.	5.8	9
96	Aquatic Insect Assemblage Patterns in Four West-African Coastal Rivers. Journal of Biological Sciences, 2007, 7, 1130-1138.	0.3	9
97	Unraveling the dietary diversity of Neotropical top predators using scat DNA metabarcoding: A case study on the elusive Giant Otter. Environmental DNA, 2021, 3, 889-900.	5.8	8
98	The influence of the invasive black bullhead Ameiurus melas on the predatory efficiency of pike Esox lucius L.. Journal of Fish Biology, 2008, 73, 196-205.	1.6	7
99	<scp>NEOTROPICAL FRESHWATER FISHES</scp>: A dataset of occurrence and abundance of freshwater fishes in the Neotropics. Ecology, 2023, 104, e3713.	3.2	7
100	Changes in roach (Rutilus rutilus L.) population structure induced on draining a large reservoir. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1999, 322, 331-338.	0.8	4
101	Fishes of the Mitaraka Mountains (French Guiana). Zoosystema, 2019, 40, 131.	0.6	4
102	Threatened fishes of the world: Acipenser dabryanus DumÃ©ril, 1869. Environmental Biology of Fishes, 2009, 85, 117-118.	1.0	3
103	Length-weight relationships of 58 fish species in French Guiana streams. Journal of Applied Ichthyology, 2015, 31, 567-570.	0.7	3
104	Aquarium trade and fish farms as a source of non-native freshwater fish introductions in French Guiana. Annales De Limnologie, 2021, 57, 4.	0.6	3
105	Threatened fishes of the World: Acipenser sinensis Gray, 1834 (Acipenseriformes: Acipenseridae). Environmental Biology of Fishes, 2009, 84, 183-184.	1.0	2
106	Threatened fishes of the world: Psephurus gladius (Martens, 1862) (Acipenseriformes: polyodontidae). Environmental Biology of Fishes, 2009, 84, 421-422.	1.0	2
107	Applying convolutional neural networks to speed up environmental DNA annotation in a highly diverse ecosystem. Scientific Reports, 2022, 12, .	3.3	2
108	Ontogenetic microhabitat shifts of 0+ rudd (Scardinius erythrophthalamus L.) in the littoral zone of a mesotrophic lake. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 2063-2065.	0.1	0

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109	Linear and non-linear methods to predict the microhabitat of 0+ roach (Rutilus rutilus L.) in the littoral zone of a large reservoir. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 811-814.	0.1	0
110	Elaboration of a biotic index of pollution using macroinvertebrates for the monitoring of Lake NokouÃ© in Benin. International Journal of Biological and Chemical Sciences, 2016, 9, 2987.	0.2	0
111	Do Morphological Traits Predict Ecological Guilds of the Mekong Fish Fauna?. Sustainability, 2021, 13, 8401.	3.2	0