

Sebastien Brosse

List of Publications by Year in Descending Order

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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.

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 | 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 |
| 108 | NEOTROPICAL FRESHWATER FISHES: A dataset of occurrence and abundance of freshwater fishes in the Neotropics.. <i>Ecology</i> , 2022 , e3713 | 4.6 | |
| 107 | Characterizing the spatial signal of environmental DNA in river systems using a community ecology approach. <i>Molecular Ecology Resources</i> , 2021 , | 8.4 | 2 |
| 106 | Erosion of global functional diversity across the tree of life. <i>Science Advances</i> , 2021 , 7, | 14.3 | 17 |
| 105 | Amazonian mammal monitoring using aquatic environmental DNA. <i>Molecular Ecology Resources</i> , 2021 , 21, 1875-1888 | 8.4 | 3 |
| 104 | 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 |
| 103 | Do Morphological Traits Predict Ecological Guilds of the Mekong Fish Fauna?. <i>Sustainability</i> , 2021 , 13, 8401 | 3.6 | |
| 102 | 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 |
| 101 | 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 |
| 100 | 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 |
| 99 | Human impacts on global freshwater fish biodiversity. <i>Science</i> , 2021 , 371, 835-838 | 33.3 | 65 |
| 98 | 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 |
| 97 | 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 |
| 96 | 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 |
| 95 | 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 |
| 94 | Advances and prospects of environmental DNA in neotropical rainforests. <i>Advances in Ecological Research</i> , 2020 , 331-373 | 4.6 | 12 |
| 93 | 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 |

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| 92 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | Optimizing environmental DNA sampling effort for fish inventories in tropical streams and rivers. <i>Scientific Reports</i> , 2019 , 9, 3085 | 4.9 | 45 |
| 88 | 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 |
| 87 | A comprehensive examination of the network position hypothesis across multiple river metacommunities. <i>Ecography</i> , 2019 , 42, 284-294 | 6.5 | 23 |
| 86 | Aquatic eDNA for monitoring French Guiana biodiversity. <i>Biodiversity Data Journal</i> , 2019 , 7, e37518 | 1.8 | 6 |
| 85 | Fishes of the Mitaraka Mountains (French Guiana). <i>Zoosystema</i> , 2019 , 40, 131 | 0.7 | 1 |
| 84 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | A global database of nitrogen and phosphorus excretion rates of aquatic animals. <i>Ecology</i> , 2017 , 98, 1475-1486 | 11.6 | 23 |
| 80 | Anthropogenic stressors and riverine fish extinctions. <i>Ecological Indicators</i> , 2017 , 79, 37-46 | 5.8 | 47 |
| 79 | Functional ecology of fish: current approaches and future challenges. <i>Aquatic Sciences</i> , 2017 , 79, 783-801 | 11.5 | 141 |
| 78 | A global database on freshwater fish species occurrence in drainage basins. <i>Scientific Data</i> , 2017 , 4, 17018-17041 | 11.1 | 89 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 | |

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| 74 | 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 |
| 73 | Worldwide freshwater fish homogenization is driven by a few widespread non-native species. <i>Biological Invasions</i> , 2016 , 18, 1295-1304 | 2.7 | 45 |
| 72 | 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 |
| 71 | From current distinctiveness to future homogenization of the world's freshwater fish faunas. <i>Diversity and Distributions</i> , 2015 , 21, 223-235 | 5 | 27 |
| 70 | 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 |
| 69 | 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 |
| 68 | Length-weight relationships of 58 fish species in French Guiana streams. <i>Journal of Applied Ichthyology</i> , 2015 , 31, 567-570 | 0.9 | 1 |
| 67 | The iterative ensemble modelling approach increases the accuracy of fish distribution models. <i>Ecography</i> , 2015 , 38, 213-220 | 6.5 | 8 |
| 66 | Regional vs local drivers of phylogenetic and species diversity in stream fish communities. <i>Freshwater Biology</i> , 2014 , 59, 450-462 | 3.1 | 31 |
| 65 | 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 |
| 64 | Functional homogenization exceeds taxonomic homogenization among European fish assemblages. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1450-1460 | 6.1 | 92 |
| 63 | Global imprint of historical connectivity on freshwater fish biodiversity. <i>Ecology Letters</i> , 2014 , 17, 1130-1140 | 6.1 | 88 |
| 62 | 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 |
| 61 | 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 |
| 60 | Fish-SPRICH: a database of freshwater fish species richness throughout the World. <i>Hydrobiologia</i> , 2013 , 700, 343-349 | 2.4 | 60 |
| 59 | Global diversity patterns and cross-taxa convergence in freshwater systems. <i>Journal of Animal Ecology</i> , 2013 , 82, 365-76 | 4.7 | 88 |
| 58 | Spatial range shape drives the grain size effects in species distribution models. <i>Ecography</i> , 2013 , 36, 778-787 | 6.7 | 15 |
| 57 | 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 |

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| 56 | Determinants of fish assemblage structure in Mount Itoupm̄mountain streams (French Guiana). <i>Annales De Limnologie</i> , 2013 , 49, 43-49 | 0.7 | 8 |
| 55 | 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 |
| 54 | Patterns and processes of global riverine fish endemism. <i>Global Ecology and Biogeography</i> , 2012 , 21, 977-987 | 6.1 | 67 |
| 53 | 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 |
| 52 | Intra- and interspecific differences in nutrient recycling by European freshwater fish. <i>Freshwater Biology</i> , 2012 , 57, 2330-2341 | 3.1 | 19 |
| 51 | 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 |
| 50 | Measuring changes in taxonomic dissimilarity following species introductions and extirpations. <i>Ecological Indicators</i> , 2012 , 18, 552-558 | 5.8 | 18 |
| 49 | Dealing with noisy absences to optimize species distribution models: an iterative ensemble modelling approach. <i>PLoS ONE</i> , 2012 , 7, e49508 | 3.7 | 11 |
| 48 | Global and Regional Patterns in Riverine Fish Species Richness: A Review. <i>International Journal of Ecology</i> , 2011 , 2011, 1-12 | 1.9 | 80 |
| 47 | Determinants of life-history traits in a fish ectoparasite: a hierarchical analysis. <i>Parasitology</i> , 2011 , 138, 848-57 | 2.7 | 12 |
| 46 | 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 |
| 45 | 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 |
| 44 | Small-scale gold mining erodes fish assemblage structure in small neotropical streams. <i>Biodiversity and Conservation</i> , 2011 , 20, 1013-1026 | 3.4 | 42 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |

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| 38 | 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 |
| 37 | Threatened fishes of the world: <i>Acipenser dabryanus</i> Duméil, 1869. <i>Environmental Biology of Fishes</i> , 2009 , 85, 117-118 | 1.6 | 2 |
| 36 | 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 |
| 35 | 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 |
| 34 | Scientific uncertainty and the assessment of risks posed by non-native freshwater fishes. <i>Fish and Fisheries</i> , 2009 , 10, 88-97 | 6 | 94 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 | 2.4 | 80 |
| 30 | Fish assemblage patterns in the littoral zone of a European reservoir. <i>Freshwater Biology</i> , 2007 , 52, 448-458 | 3.5 | 40 |
| 29 | Concordance among stream assemblages and spatial autocorrelation along a fragmented gradient. <i>Diversity and Distributions</i> , 2007 , 14, 592-603 | 5 | 61 |
| 28 | 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 |
| 27 | Aquatic Insect Assemblage Patterns in Four West-African Coastal Rivers. <i>Journal of Biological Sciences</i> , 2007 , 7, 1130-1138 | 0.4 | 5 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |

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|----|--|------|-----|
| 20 | 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 |
| 19 | 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 |
| 18 | Conservation Strategies for Endemic Fish Species Threatened by the Three Gorges Dam. <i>Conservation Biology</i> , 2003 , 17, 1748-1758 | 6 | 174 |
| 17 | Macroinvertebrate richness patterns in North African streams. <i>Journal of Biogeography</i> , 2003 , 30, 1821-1833 | 1.33 | 35 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | Utilisation of non-supervised neural networks and principal component analysis to study fish assemblages. <i>Ecological Modelling</i> , 2001 , 146, 159-166 | 3 | 86 |
| 12 | 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 |
| 11 | 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 |
| 10 | Modelling roach (<i>Rutilus rutilus</i>) microhabitat using linear and nonlinear techniques. <i>Freshwater Biology</i> , 2000 , 44, 441-452 | 3.1 | 33 |
| 9 | 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 | | |
| 8 | 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 | | |
| 7 | Changes in roach (<i>Rutilus rutilus</i> L.) population structure induced on draining a large reservoir. <i>Comptes Rendus De LiAcadémie Des Sciences Série 3, Sciences De La Vie</i> , 1999 , 322, 331-338 | | 2 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |

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|---|---|-----|---|
| 2 | Comparing the performance of 12S mitochondrial primers for fish environmental DNA across ecosystems. <i>Environmental DNA</i> , | 7.6 | 6 |
| 1 | FISHMORPH: A global database on morphological traits of freshwater fishes. <i>Global Ecology and Biogeography</i> , | 6.1 | 4 |