

# Thierry Oberdorff

## List of Publications by Year in descending order

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98  
papers

12,086  
citations

36303

51  
h-index

39675

94  
g-index

101  
all docs

101  
docs citations

101  
times ranked

13173  
citing authors

#	ARTICLE	IF	CITATIONS
1	ENERGY, WATER, AND BROAD-SCALE GEOGRAPHIC PATTERNS OF SPECIES RICHNESS. <i>Ecology</i> , 2003, 84, 3105-3117.	3.2	1,868
2	Scenarios for Global Biodiversity in the 21st Century. <i>Science</i> , 2010, 330, 1496-1501.	12.6	1,570
3	Predictions and tests of climate-based hypotheses of broad-scale variation in taxonomic richness. <i>Ecology Letters</i> , 2004, 7, 1121-1134.	6.4	1,011
4	Spatial speciesâ€ richness gradients across scales: a metaâ€ analysis. <i>Journal of Biogeography</i> , 2009, 36, 132-147.	3.0	573
5	Scientistsâ€™ warning to humanity on the freshwater biodiversity crisis. <i>Ambio</i> , 2021, 50, 85-94.	5.5	387
6	Global diversity of fish (Pisces) in freshwater. <i>Hydrobiologia</i> , 2008, 595, 545-567.	2.0	349
7	Fish Invasions in the World's River Systems: When Natural Processes Are Blurred by Human Activities. <i>PLoS Biology</i> , 2008, 6, e28.	5.6	324
8	Energy availability and habitat heterogeneity predict global riverine fish diversity. <i>Nature</i> , 1998, 391, 382-384.	27.8	302
9	Partitioning global patterns of freshwater fish beta diversity reveals contrasting signatures of past climate changes. <i>Ecology Letters</i> , 2011, 14, 325-334.	6.4	260
10	Development and validation of a fish-based index for the assessment of â€ river healthâ€™ in France. <i>Freshwater Biology</i> , 2002, 47, 1720-1734.	2.4	234
11	Coefficient shifts in geographical ecology: an empirical evaluation of spatial and nonâ€ spatial regression. <i>Ecography</i> , 2009, 32, 193-204.	4.5	231
12	Modification of an index of biotic integrity based on fish assemblages to characterize rivers of the Seine Basin, France. <i>Hydrobiologia</i> , 1992, 228, 117-130.	2.0	212
13	A probabilistic model characterizing fish assemblages of French rivers: a framework for environmental assessment. <i>Freshwater Biology</i> , 2001, 46, 399-415.	2.4	209
14	Homogenization patterns of the worldâ€™s freshwater fish faunas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18003-18008.	7.1	197
15	Post-2020 biodiversity targets need to embrace climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30882-30891.	7.1	160
16	A global database on freshwater fish species occurrence in drainage basins. <i>Scientific Data</i> , 2017, 4, 170141.	5.3	145
17	Macroinvertebrate-based multimetric predictive models for evaluating the human impact on biotic condition of Bolivian streams. <i>Ecological Indicators</i> , 2011, 11, 840-847.	6.3	122
18	Scientific uncertainty and the assessment of risks posed by nonâ€ native freshwater fishes. <i>Fish and Fisheries</i> , 2009, 10, 88-97.	5.3	121

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19	Global imprint of historical connectivity on freshwater fish biodiversity. <i>Ecology Letters</i> , 2014, 17, 1130-1140.	6.4	121
20	Is there an influence of historical events on contemporary fish species richness in rivers? Comparisons between Western Europe and North America. <i>Journal of Biogeography</i> , 1997, 24, 461-467.	3.0	113
21	Modelling habitat requirement of European fishes: do species have similar responses to local and regional environmental constraints?. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2005, 62, 163-173.	1.4	111
22	Patterns of fish species richness in the Seine River basin, France. <i>Hydrobiologia</i> , 1993, 259, 157-167.	2.0	106
23	Global and Regional Patterns in Riverine Fish Species Richness: A Review. <i>International Journal of Ecology</i> , 2011, 2011, 1-12.	0.8	106
24	Effects of natural and anthropogenic environmental changes on riverine fish assemblages: a framework for ecological assessment of rivers. <i>Brazilian Archives of Biology and Technology</i> , 2005, 48, 91-108.	0.5	105
25	Global diversity patterns and cross-taxa convergence in freshwater systems. <i>Journal of Animal Ecology</i> , 2013, 82, 365-376.	2.8	105
26	Convergence of temperate and tropical stream fish assemblages. <i>Ecography</i> , 2009, 32, 658-670.	4.5	91
27	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
28	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
29	Unexpected fish diversity gradients in the Amazon basin. <i>Science Advances</i> , 2019, 5, eaav8681.	10.3	88
30	Non-interactive fish communities in the coastal streams of Northwestern France. <i>Journal of Animal Ecology</i> , 1998, 67, 472-484.	2.8	85
31	Natural fragmentation in river networks as a driver of speciation for freshwater fishes. <i>Ecography</i> , 2013, 36, 683-689.	4.5	84
32	Anthropogenic stressors and riverine fish extinctions. <i>Ecological Indicators</i> , 2017, 79, 37-46.	6.3	80
33	Using macroinvertebrate biological traits for assessing biotic integrity of neotropical streams. <i>River Research and Applications</i> , 2008, 24, 1230-1239.	1.7	77
34	Effects of natural rapids and waterfalls on fish assemblage structure in the Madeira River (Amazon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	76
35	Is assemblage variability related to environmental variability? An answer for riverine fish. <i>Oikos</i> , 2001, 93, 419-428.	2.7	75
36	Patterns and processes of global riverine fish endemism. <i>Global Ecology and Biogeography</i> , 2012, 21, 977-987.	5.8	75

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37	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
38	Fish-SPRICH: a database of freshwater fish species richness throughout the World. <i>Hydrobiologia</i> , 2013, 700, 343-349.	2.0	73
39	Flow alterations by dams shaped fish assemblage dynamics in the complex Mekong-3S river system. <i>Ecological Indicators</i> , 2018, 88, 103-114.	6.3	73
40	Longitudinal and altitudinal changes of macroinvertebrate functional feeding groups in neotropical streams: a test of the River Continuum Concept. <i>Fundamental and Applied Limnology</i> , 2007, 170, 233-241.	0.7	71
41	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
42	A database of freshwater fish species of the Amazon Basin. <i>Scientific Data</i> , 2020, 7, 96.	5.3	69
43	Evidence of history in explaining diversity patterns in tropical riverine fish. <i>Journal of Biogeography</i> , 2005, 32, 1899-1907.	3.0	65
44	Fish assemblages structure and function along environmental gradients in rivers of Gabon (Africa). <i>Ecology of Freshwater Fish</i> , 2007, 16, 315-334.	1.4	65
45	Density-range size relationships in French riverine fishes. <i>Oecologia</i> , 2004, 138, 360-370.	2.0	64
46	Worldwide freshwater fish homogenization is driven by a few widespread non-native species. <i>Biological Invasions</i> , 2016, 18, 1295-1304.	2.4	63
47	Global biogeographical regions of freshwater fish species. <i>Journal of Biogeography</i> , 2019, 46, 2407-2419.	3.0	61
48	Reducing adverse impacts of Amazon hydropower expansion. <i>Science</i> , 2022, 375, 753-760.	12.6	60
49	Metacommunity patterns across three Neotropical catchments with varying environmental harshness. <i>Freshwater Biology</i> , 2016, 61, 277-292.	2.4	58
50	Patterns of endemism in riverine fish of the Northern Hemisphere. <i>Ecology Letters</i> , 1999, 2, 75-81.	6.4	56
51	Freshwater fish diversity hotspots for conservation priorities in the Amazon Basin. <i>Conservation Biology</i> , 2020, 34, 956-965.	4.7	55
52	Determinants of local and regional communities in intermittent and perennial headwaters of the Bolivian Amazon. <i>Freshwater Biology</i> , 2016, 61, 1335-1349.	2.4	54
53	A comprehensive examination of the network position hypothesis across multiple river metacommunities. <i>Ecography</i> , 2019, 42, 284-294.	4.5	54
54	An index of biotic integrity to assess biological impacts of salmonid farm effluents on receiving waters. <i>Aquaculture</i> , 1994, 119, 219-235.	3.5	53

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55	Initial development of a multi-metric index based on aquatic macroinvertebrates to assess streams condition in the Upper Isiboro-S�cure Basin, Bolivian Amazon. <i>Hydrobiologia</i> , 2007, 589, 107-116.	2.0	51
56	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.	9.5	50
57	Broad-scale determinants of non-native fish species richness are context-dependent. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2385-2394.	2.6	49
58	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.	5.8	49
59	Native and introduced fish species richness in French lakes: local and regional influences. <i>Global Ecology and Biogeography</i> , 2004, 13, 335-344.	5.8	48
60	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.	5.8	44
61	Multi�causality and spatial non�stationarity in the determinants of groundwater crustacean diversity in Europe. <i>Ecography</i> , 2015, 38, 531-540.	4.5	44
62	Fish community comparisons along environmental gradients in lakes of France and north-east USA. <i>Global Ecology and Biogeography</i> , 2007, 16, 350-366.	5.8	42
63	Interacting Regional-Scale Regime Shifts for Biodiversity and Ecosystem Services. <i>BioScience</i> , 2014, 64, 665-679.	4.9	41
64	Opinion Paper: how vulnerable are Amazonian freshwater fishes to ongoing climate�change?. <i>Journal of Applied Ichthyology</i> , 2015, 31, 4-9.	0.7	41
65	Dietary-morphological relationships in fish assemblages of small forested streams in the Bolivian Amazon. <i>Aquatic Living Resources</i> , 2007, 20, 131-142.	1.2	33
66	A comparison of modeling techniques to predict juvenile 0+ fish species occurrences in a large river system. <i>Ecological Informatics</i> , 2011, 6, 276-285.	5.2	33
67	From current distinctiveness to future homogenization of the world's freshwater fish faunas. <i>Diversity and Distributions</i> , 2015, 21, 223-235.	4.1	32
68	Effects of natural hydrological variability on fish assemblages in small Mediterranean streams: Implications for ecological assessment. <i>Ecological Indicators</i> , 2012, 23, 467-481.	6.3	30
69	International Perspectives on the Effects of Climate Change on Inland Fisheries. <i>Fisheries</i> , 2016, 41, 399-405.	0.8	29
70	Fish assemblage structure in Brittany streams (France). <i>Aquatic Living Resources</i> , 1992, 5, 215-223.	1.2	27
71	Genus�level supertree of Cyprinidae (Actinopterygii: Cypriniformes), partitioned qualitative clade support and test of macro�evolutionary scenarios. <i>Biological Reviews</i> , 2009, 84, 653-689.	10.4	25
72	A fish-based index of large river quality for French Guiana (South America): method and preliminary results. <i>Aquatic Living Resources</i> , 2006, 19, 31-46.	1.2	24

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73	Fish assemblage responses to flow seasonality and predictability in a tropical flood pulse system. <i>Ecosphere</i> , 2018, 9, e02366.	2.2	24
74	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.	0.7	21
75	Macroinvertebrate food web structure in a floodplain lake of the Bolivian Amazon. <i>Hydrobiologia</i> , 2011, 663, 135-153.	2.0	20
76	Local-scale species-energy relationships in fish assemblages of some forested streams of the Bolivian Amazon. <i>Comptes Rendus - Biologies</i> , 2007, 330, 255-264.	0.2	19
77	Predicting local fish species richness in the garonne river basin. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 1998, 321, 423-428.	0.8	17
78	Controlling for natural variability in assessing the response of fish metrics to human pressures for lakes in north-east USA. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2008, 18, 633-646.	2.0	17
79	Context-dependent resistance of freshwater invertebrate communities to drying. <i>Ecology and Evolution</i> , 2017, 7, 3201-3211.	1.9	17
80	Variability of water temperature may influence food-chain length in temperate streams. <i>Hydrobiologia</i> , 2013, 718, 159-172.	2.0	14
81	Karyotypic study of some species of family Mochokidae (Pisces, Siluriformes): evidence of female heterogamety. <i>Journal of Fish Biology</i> , 1990, 37, 375-381.	1.6	11
82	¿Qué factores determinan la distribución altitudinal de los peces de ríos tropicales andinos?. <i>Revista De Biología Tropical</i> , 2016, 64, 157.	0.4	11
83	Applications of IBI Concepts and Metrics to Waters Outside the United States and Canada. , 2020, , 79-93.		10
84	The representativeness of protected areas for Amazonian fish diversity under climate change. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021, 31, 1158-1166.	2.0	9
85	Stable isotopes reveal food web modifications along the upstream-downstream gradient of a temperate stream. <i>Aquatic Sciences</i> , 2016, 78, 255-265.	1.5	8
86	Young-of-the-year fish assemblages as indicators of anthropogenic disturbances in large tributaries of the Seine River Basin (France). <i>Hydrobiologia</i> , 2012, 694, 99-116.	2.0	6
87	Fish-AMAZBOL: a database on freshwater fishes of the Bolivian Amazon. <i>Hydrobiologia</i> , 2014, 732, 19.	2.0	6
88	COMPARACIÓN DE LAS COMUNIDADES DE MACROINVERTEBRADOS ACUÁTICOS EN RÍOS INTERMITENTES Y PERMANENTES DEL ALTIPLANO BOLIVIANO: IMPLICACIONES PARA EL FUTURO CAMBIO CLIMÁTICO. <i>Ecología Aplicada</i> , 2016, 8, 105.	0.2	6
89	Environmental correlates of body size distribution in Cyprinidae (Actinopterygians) depend on phylogenetic scale. <i>Ecology of Freshwater Fish</i> , 2016, 25, 125-132.	1.4	5
90	Biological impacts of local vs. regional land use on a small tributary of the Seine River (France): insights from a food web approach based on stable isotopes. <i>Environmental Science and Pollution Research</i> , 2018, 25, 23583-23594.	5.3	4

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91	Metadata description of the AMAZON FISH database. <i>Freshwater Metadata Journal</i> , 0, , 1-9.	0.0	4
92	Distribution patterns, population status and conservation of <i>Melanosuchus niger</i> and <i>Caiman yacare</i> (Crocodylia, Alligatoridae) in oxbow lakes of the Ichilo river floodplain, Bolivia. <i>Revista De Biologia Tropical</i> , 2008, 56, 909-29.	0.4	4
93	Geomorphological diversity of rivers in the Amazon Basin. <i>Geomorphology</i> , 2022, 400, 108078.	2.6	4
94	Chromosome Banding in African Catfishes: Nucleolar Organizer Regions in Five Species of the Genus <i>Synodontis</i> and One of the Genus <i>Hemisynodontis</i> (Pisces, Mochokidae). <i>Caryologia</i> , 1990, 43, 9-16.	0.3	3
95	Metadata description of the Ictioplata database: a fish distribution database for the La Plata drainage basin. <i>Freshwater Metadata Journal</i> , 0, , 1-6.	0.0	3
96	Drivers of phylogenetic structure in Amazon freshwater fish assemblages. <i>Journal of Biogeography</i> , 2022, 49, 310-323.	3.0	3
97	Préserver la biodiversité des poissons d'eau douce : un défi pour les pays du Sud. <i>Cahiers Agricultures</i> , 2009, 18, 302-302.	0,9	0
98	<i>Freshwater Vertebrates</i> . , 2018, , 208-239.		0