

TABLE S1 | List of articles included and analyzed in our review.

N	Article title	Authors	DOI	Publication year	Country
1	How fish traits and functional diversity respond to environmental changes and species invasion in the largest river in Southeastern China	Lin, Li; Deng, Weide; Huang, Xiaoxia; Liu, Yang; Huang, Liangliang; Kang, Bin	10.7717/peerj.11824	2021	China
2	Understanding patterns of taxonomic diversity, functional diversity, and ecological drivers of fish fauna in the Mekong River	Zhang, Chao; Zhu, Ren; Sui, Xiaoyun; Li, Xueqing; Chen, Yifeng	10.1016/j.gecco.2021.e01711	2021	China
3	Human impacts alter the distribution of fish functional diversity in Neotropical stream system	Pereira, Lucas Milani; Dunck, Barbara; Benedito, Evanilde	10.1111/btp.12896	2021	Brazil
4	Functional erosion and trait loss in fish assemblages from Neotropical reservoirs: The man beyond the environment	Dias, Rosa Maria; de Oliveira, Anielle Galego; Baumgartner, Matheus Tenorio; Angulo-Valencia, Mirtha Amanda; Agostinho, Angelo Antonio	10.1111/faf.12524	2021	Brazil
5	The response of fish functional diversity to the El Niño Southern Oscillation (ENSO) in a Neotropical floodplain	Andreotti, Gustavo F.; Alves, Jonas C.; Alves, Diego C.; Agostinho, Angelo A.; Gomes, Luiz C.	10.1007/s10750-020-04491-9	2021	Brazil
6	Loss of endemic fish species drives impacts on functional richness, redundancy and vulnerability in freshwater ecoregions of Sundaland	Chua, Kenny W. J.; Tan, Heok Hui; Yeo, Darren C. J.	10.1016/j.biocon.2019.03.019	2019	Several
7	Effect of non-native species on taxonomic and functional diversity of fish communities in different river types	Takacs, Peter; Abonyi, Andras; Bano, Balint; Eros, Tibor	10.1007/s10531-021-02207-6	2021	Hungary
8	Floodplain land cover affects biomass distribution of fish functional diversity in the Amazon River	Arantes, Caroline C.; Winemiller, Kirk O.; Asher, Alex; Castello, Leandro; Hess, Laura L.; Petreere, Miguel, Jr.; Freitas, Carlos E. C.	10.1038/s41598-019-52243-0	2019	Brazil
9	Functional response of fish communities in a multistressed freshwater world	Stefani, Fabrizio; Schiavon, Alfredo; Tirozzi, Pietro; Gomasasca, Stefano; Marziali, Laura	10.1016/j.scito-tenv.2020.139902	2020	Italy
10	Impact of <i>Oreochromis niloticus</i> (Linnaeus, 1758) (Pisces: Cichlidae) invasion on taxonomic and functional diversity of native fish species in the upper Kabompo River, northwest of Zambia	Jere, Arthertone; Jere, Wilson W. L.; Mtethiwa, Austin; Kassam, Daud	10.1002/ece3.8031	2021	Zambia
11	What controls fish functional diversity patterns in Colombian Andean streams?	Poveda-Cuellar, Jose Luis; Lopez Delgado, Edwin Orlando; Zuniga-Upegui, Pamela Tatiana; Villa Navarro, Francisco Antonio	10.1111/eff.12615	2022	Colombia
12	Drastic reduction of the functional diversity of native ichthyofauna in a Neotropical lake following invasion by piscivorous fishes	de Souza, Carla Patricia; Rodrigues-Filho, Carlos Alberto De Sousa; Rodrigues Barbosa, Francisco Antonio; Leitao, Rafael Pereira	10.1590/1982-0224-2021-0033	2021	Brazil
13	Widespread convergence in stream fishes	Bower, Luke M.; Saenz, David E.; Winemiller, Kirk O.	10.1093/biolinnean/blab043	2021	Several
14	Taxonomic and functional diversity in a subtropical stream: A longitudinal pattern analysis	Zhang, Dong; Heng, Wujing; Chu, Ling; Xu, Dongpo; Kang, Bin; Yan, Yunzhi	10.1111/eff.12551	2020	China
15	Fish functional diversity responses following flood pulses in the upper Parana River floodplain	Baumgartner, Matheus T.; de Oliveira, Anielle G.; Agostinho, Angelo A.; Gomes, Luiz C.	10.1111/eff.12402	2018	Brazil
16	Do environmental conditions modulated by land use drive fish functional diversity in streams?	Larentis, Crislei; Pavanelli, Carla Simone; Delariva, Rosilene Luciana	10.1007/s10750-021-04756-x	2021	Brazil
17	Coupling environment and physiology to predict effects of climate change on the taxonomic and functional diversity of fish assemblages in the Murray-Darling Basin, Australia	de Oliveira, Anielle Galego; Bailly, Dayani; Cassemiro, Fernanda A. S.; do Couto, Edivando Vitor; Bond, Nick; Gilligan, Dean; Rangel, Thiago F.; Agostinho, Angelo Antonio; Kennard, Mark J.	10.1371/journal.pone.0225128	2019	Australia
18	Fish taxonomic, functional, and phylogenetic diversity and their vulnerabilities in the largest river in southeastern China	Lin, Li; Deng, Weide; Huang, Xiaoxia; Kang, Bin	10.1002/ece3.7945	2021	China
19	Effects of loss of lateral hydrological connectivity on fish functional diversity	Liu, Xueqin; Wang, Hongzhu	10.1111/cobi.13142	2018	China



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N	Article title	Authors	DOI	Publication year	Country
20	Using the relationship between taxonomic and functional diversity to assess functional redundancy in streams of an altered tropical watershed	Camilo, Geysa da Silva; Terra, Bianca de Freitas; Araujo, Francisco Gerson	10.1007/s10641-018-0786-3	2018	Brazil
21	Non-native species led to marked shifts in functional diversity of the world freshwater fish faunas	Toussaint, Aurele; Charpin, Nicolas; Beauchard, Olivier; Grenouillet, Gael; Oberdorff, Thierry; Tedesco, Pablo A.; Brosse, Sebastien; Villegier, Sebastien	10.1111/ele.13141	2018	Several
22	Distance to large rivers affects fish diversity patterns in highly dynamic streams of Central Amazonia	Stegmann, Lis F.; Leitao, Rafael P.; Zuanon, Jansen; Magnusson, William E.	10.1371/journal.pone.0223880	2019	Brazil
23	Long-term effects of flow regulation by dams simplify fish functional diversity	Oliveira, Anielly G.; Baumgartner, Matheus T.; Gomes, Luiz C.; Dias, Rosa M.; Agostinho, Angelo A.	10.1111/fw.13064	2018	Brazil
24	Exotic species elicit decoupled responses in functional diversity components of freshwater fish assemblages in Chile	Rojas, Pablo; Castro, Sergio A.; Vila, Irma; Jaksic, Fabian M.	10.1016/j.ecolind.2021.108364	2021	Chile
25	Freshwater fish functional and taxonomic diversity above and below Niagara Falls	Lamothe, Karl A.; Hubbard, Justin A. G.; Drake, D. Andrew R.	10.1007/s10641-020-01044-w	2021	Canada
26	How does fish functional diversity respond to environmental changes in two large shallow lakes?	Mao, Zhigang; Gu, Xiaohong; Cao, Yong; Luo, Juhua; Zeng, Qingfei; Chen, Huihui; Jeppesen, Erik	10.1016/j.scitotenv.2020.142158	2021	China
27	Functional responses of stream fish communities to rural and urban land uses	Roman Müller, Natali Oliva; Cunico, Almir Manoel; Gubiani, Eder Andre; Piana, Pitagoras Augusto	10.1590/1982-0224-2020-0134	2021	Brazil
28	Increasing anthropogenic salinisation leads to declines in community diversity, functional diversity and trophic links in mountain streams	Zhao, Qian; Zhang, Yuan; Guo, Fen; Leigh, Catherine; Jia, Xiaobo	10.1016/j.chemosphere.2020.127994	2021	China
29	Exotic species invasions undermine regional functional diversity of freshwater fish	Milardi, Marco; Gavioli, Anna; Soininen, Janne; Castaldelli, Giuseppe	10.1038/s41598-019-54210-1	2019	Italy
30	Response of fish communities to intense drought in Brazilian savanna streams	Silva, Dianne Michelle Alves da; Teresa, Fabricio Barreto	10.4136/ambi-agua.2093	2017	Brazil
31	Functional response of fish assemblage to multiple stressors in a highly regulated Mediterranean river system	Sanchez-Perez, Ana; Jose Oliva-Paterna, Francisco; Colin, Nicole; Torralva, Mar; Gorski, Konrad	10.1016/j.scitotenv.2020.138989	2020	Spain
32	Effect of river restoration on life-history strategies in fish communities	Manfrin, Alessandro; Teurlincx, Sven; Lorenz, Armin W.; Haase, Peter; Marttila, Maare; Syrjanen, Jukka T.; Thomas, Gregor; Stoll, Stefan	10.1016/j.scitotenv.2019.01.330	2019	Germany/ Finland
33	Exotic species modify the functional diversity patterns of freshwater fish assemblages in continental Chile: Examining historical and geographical patterns	Rojas, Pablo; Castro, Sergio A.; Vila, Irma; Jaksic, Fabian M.	10.1016/j.gecco.2020.e01355	2020	Chile
34	FISH TAXONOMIC AND FUNCTIONAL DIVERSITY IN MESOHABITATS OF THE RIVER KAKADA, CAURA NATIONAL PARK, VENEZUELA	Echevarria, Gabriela; Gonzalez, Nirson	10.24189/ncr.2018.048	2018	Venezuela
35	Changes in taxonomic and functional diversity of fish communities after catastrophic habitat alteration caused by construction of Three Gorges Dam	Zhang, Chen; Fujiwara, Masami; Pawluk, Michaela; Liu, Huanzhang; Cao, Wenxuan; Gao, Xin	10.1002/ece3.6320	2020	China
36	Large river fish functional diversity responses to improved water quality over a 28 year period	Parker, Jerrod; Cao, Yong; Sass, Greg G.; Epifanio, John	10.1016/j.ecolind.2018.01.035	2018	United States
37	Historical stability promoted higher functional specialization and originality in Neotropical stream fish assemblages	Rodrigues-Filho, Carlos A. S.; Leitao, Rafael P.; Zuanon, Jansen; Sanchez-Botero, Jorge I.; Baccaro, Fabricio B.	10.1111/jbi.13205	2018	Brazil
38	Local effects of deforestation on stream fish assemblages in the Amazon-Savannah transitional area	Freitas, Pamela, V; Montag, Luciano F. A.; Ilha, Paulo; Torres, Naiara R.; Maia, Calebe; Deegan, Linda; Nascimento, Anderson Thiago; Silva, Karina Dias	10.1590/1982-0224-2021-0098	2021	Brazil
39	The role of secondary riparian forests for conserving fish assemblages in eastern Amazon streams	de Paula, Felipe Rossetti; Leal, Cecilia Gontijo; Leitao, Rafael Pereira; Ferraz, Silvio Frosini de Barros; Pompeu, Paulo Santos; Zuanon, Jansen Alfredo Sampaio; Hughes, Robert M.	10.1007/s10750-020-04507-4	2021	Brazil



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N	Article title	Authors	DOI	Publication year	Country
40	Hotspots and bright spots in functional and taxonomic fish diversity	Kovalenko, Katya E.; Johnson, Lucinda B.; Brad, Valerie J.; Ciborowski, Jan J. H.; Cooper, Matthew J.; Gathman, Joseph P.; Lamberti, Gary A.; Moerke, Ashley H.; Ruetz, Cart R., III; Uzarski, Donald G.	10.1086/704713	2019	United States
41	Intercontinental trends in functional and phylogenetic structure of stream fish assemblages	Bower, Luke M.; Winemiller, Kirk O.	10.1002/ece3.5823	2019	Several
42	Numerical abundance and biomass reveal different temporal trends of functional diversity change in tropical fish assemblages	Fontrodona-Eslava, Ada; Deacon, Amy E.; Rammarine, Indar W.; Magurran, Anne E.	10.1111/jfb.14812	2021	Caribbean island of Trinidad
43	Unravelling patterns of taxonomic and functional diversity of Amazon stream fish	Benone, Naraiana Loureiro; Leal, Cecília Gontijo; dos Santos, Luciana Lameira; Mendes, Thiago Pereira; Heino, Jani; de Assis Montag, Luciano Fogaca	10.1007/s00027-020-00749-5	2020	Brazil
44	Contrasting changes in freshwater fish assemblages and food webs follow modification of tropical waterways	Liew, Jia Huan; Giam, Xingli; Clews, Esther; Tan, Kenrick Y. W.; Tan, Heok Hui; Kho, Zi Yi; Yeo, Darren C. J.	10.1111/eff.12419	2018	Singapore
45	Multifaceted biodiversity measurements reveal incongruent conservation priorities for rivers in the upper reach and lakes in the middle-lower reach of the largest river-floodplain ecosystem in China	Jiang, Zhongguan; Dai, Bingguo; Wang, Chao; Xiong, Wen	10.1016/j.scitotenv.2020.140380	2020	China
46	Long-term responses of fish diversity to river regulation: a multi-metric approach	Pereira, Hasley Rodrigo; Gomes, Leonardo Fernandes; Soares, Philip Teles; Martins, Pedro Ribeiro; Pelicice, Fernando Mayer; Teresa, Fabricio Barreto; Vieira, Ludgero Cardoso Galli	10.1007/s10641-021-01056-0	2021	Brazil
47	Seasonal fluctuations in taxonomic and functional diversity in assemblages of catfishes in the Venezuelan Arauca River Floodplain	Echevarria, Gabriela; Paul Rodriguez, Jon; Machado-Allison, Antonio	10.1080/01650521.2017.1387426	2018	Venezuela
48	Land-use changes affect the functional structure of stream fish assemblages in the Brazilian Savanna	Alvarenga, Ludmilla R. P.; Pompeu, Paulo S.; Leal, Cecília G.; Hughes, Robert M.; Fagundes, Daniela C.; Leitao, Rafael P.	10.1590/1982-0224-2021-0035	2021	Brazil
49	The role of species introduction in modifying the functional diversity of native communities	Milardi, Marco; Gavioli, Anna; Soana, Elisa; Lanzoni, Mattia; Fano, Elisa Anna; Castaldelli, Giuseppe	10.1016/j.scitotenv.2019.134364	2020	Italy
50	How does conversion from forest to pasture affect the taxonomic and functional structure of the fish assemblages in Amazonian streams?	Cantanhede, Lorraine Gabrielle; Luiza-Andrade, Ana; Leao, Hingara; Montag, Luciano Fogaca de Assis	10.1111/eff.12589	2021	Brazil
51	Community disassembly under global change: Evidence in favor of the stress-dominance hypothesis	Kuczynski, Lucie; Grenouillet, Gael	10.1111/gcb.14320	2018	France
52	Valley-scale hydrogeomorphology drives river fish assemblage variation in Mongolia	Maasri, Alain; Pyron, Mark; Arsenault, Emily R.; Thorp, James H.; Mendsaikhan, Bud; Tromboni, Flavia; Minder, Mario; Kenner, Scott J.; Costello, John; Chandra, Sudeep; Otgonganbat, Amarbat; Boldgiv, Bazartseren	10.1002/ece3.7505	2021	Mongolia
53	Scale-sensitive stream slope drives nested fish trait-based diversity	Caetano, Vinne; Camana, Mateus; Dala-Corte, Renato Bolson; Melo, Adriano Sanches	10.1007/s10452-021-09881-2	2021	Brazil
54	Metacommunity organization in an intermittent river in Brazil: the importance of riverine networks for regional biodiversity	Rodrigues-Filho, Carlos A. S.; Gurgel-Lourenco, Ronaldo C.; Ramos, Elieta A.; Novaes, Jose L. C.; Garcez, Danielle S.; Costa, Rodrigo S.; Sanchez-Botero, Jorge I.	10.1007/s10452-019-09732-1	2020	Brazil
55	Macrophyte stand complexity explains the functional alpha and beta diversity of fish in a tropical river-floodplain	Quirino, Barbara Angelio; Lansac-Toha, Fernando Miranda; Thomaz, Sidinei Magela; Heino, Jani; Fugi, Rosemara	10.1007/s00027-020-00768-2	2021	Brazil



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N	Article title	Authors	DOI	Publication year	Country
56	Importance of local and landscape variables on multiple facets of stream fish biodiversity in a Neotropical agroecosystem	Roa-Fuentes, Camilo A.; Heino, Jani; Zeni, Jaqueline O.; Ferraz, Silvio; Cianciaruso, Marcus V.; Casatti, Lilian	10.1007/s10750-020-04396-7	2020	Brazil
57	Land-use change is associated with a significant loss of freshwater fish species and functional richness in Sabah, Malaysia	Wilkinson, Clare L.; Yeo, Darren C. J.; Hui, Tan Heok; Fikri, Arman Hadi; Ewers, Robert M.	10.1016/j.biocon.2018.04.004	2018	Malaysia
58	Taxonomic loss and functional reduction over time in the ichthyofauna of the Taquarucu Reservoir, lower Paranapanema River, Southern Brazil	Ferraz, Joao D.; Casimiro, Armando C. R.; Garcia, Diego A. Z.; Pereira, Alan D.; Jarduli, Lucas R.; de Almeida, Fernanda S.; Orsi, Mario L.	10.1590/1982-0224-2020-0143	2021	Brazil
59	Human disturbance and long-term changes in fish taxonomic, functional and phylogenetic diversity in the Yellow River, China	Jia, Yintao; Kennard, Mark J.; Liu, Yuhao; Sui, Xiaoyun; Li, Kemao; Wang, Guojie; Chen, Yifeng	10.1007/s10750-020-04244-8	2020	China
60	Effects of dam construction and fish invasion on the species, functional and phylogenetic diversity of fish assemblages in the Yellow River Basin	Wang, Jun; Chen, Liang; Tang, Wenjia; Heino, Jani; Jiang, Xiaoming	10.1016/j.jenvman.2021.112863	2021	China
61	Disentangling the pathways of land use impacts on the functional structure of fish assemblages in Amazon streams	Leitao, Rafael P.; Zuanon, Jansen; Mouillot, David; Leal, Cecilia G.; Hughes, Robert M.; Kaufmann, Philip R.; Villegier, Sebastien; Pompeu, Paulo S.; Kasper, Daniele; de Paula, Felipe R.; Ferraz, Silvio F. B.; Gardner, Toby A.	10.1111/ecog.02845	2018	Brazil
62	Effects of long-term floodplain disconnection on multiple facets of lake fish biodiversity: Decline of alpha diversity leads to a regional differentiation through time	Jiang, Xiaoming; Zheng, Peng; Cao, Liang; Pan, Baozhu	10.1016/j.scitotenv.2020.14417	2021	China
63	Effects of pasture conversion to sugarcane for biofuel production on stream fish assemblages in tropical agroecosystems	Zeni, Jaqueline O.; Hoeinghaus, David J.; Casatti, Lilian	10.1111/fwb.13047	2017	Brazil
64	Accounting for intraspecific diversity when examining relationships between non-native species and functional diversity	Zhao, T.; Villegier, S.; Cucherousset, J.	10.1007/s00442-018-4311-3	2019	France
65	What governs the functional diversity patterns of fishes in the headwater streams of the humid forest enclaves: environmental conditions, taxonomic diversity or biotic interactions?	Sousa Rodrigues-Filho, Carlos Alberto; Gurgel-LourenOo, Ronaldo Cesar; Queiroz Lima, Sergio Maia; de Oliveira, Edson Fontes; Sanchez-Botero, Jorge Ivan	10.1007/s10641-017-0603-4	2017	Brazil
66	Biological invasions undermine the functional diversity of fish community in a large subtropical river	Shuai, Fangmin; Lek, Sovan; Li, Xinhui; Zhao, Tian	10.1007/s10530-018-1751-y	2018	China
67	Taxonomic versus functional diversity metrics: how do fish communities respond to anthropogenic stressors in reservoirs?	Sagouis, Alban; Jabot, Franck; Argillier, Christine	10.1111/eff.12306	2017	France
68	Evaluating functional diversity conservation for freshwater fishes resulting from terrestrial protected areas	Lamothe, Karl A.; Alofs, Karen M.; Chu, Cindy	10.1111/fwb.13395	2019	Canada
69	Influence of Land-Use Classes on the Functional Structure of Fish Communities in Southern Brazilian Headwater Streams	Barbosa, Amanda Saldanha; Pires, Mateus Marques; Schulz, Uwe Horst	10.1007/s00267-020-01274-9	2020	Brazil
70	Functionally redundant communities do not show differences in the main environmental drivers of different diversity metrics	Rodrigues, Amanda Cantarute; Lacerda dos Santos, Natalia Carneiro; Gomes, Luiz Carlos	10.1007/s00027-020-00727-x	2020	Brazil
71	Functional diversity measures revealed impacts of non-native species and habitat degradation on species-poor freshwater fish assemblages	Colin, Nicole; Villegier, Sebastien; Wilkes, Martin; de Sostoa, Adolfo; Maceda-Veiga, Alberto	10.1016/j.scitotenv.2017.12.316	2018	Spain
72	Functional diversity and redundancy of freshwater fish communities across biogeographic and environmental gradients	Lamothe, Karl A.; Alofs, Karen M.; Jackson, Donald A.; Somers, Keith M.	10.1111/ddi.12812	2018	Canada
73	The role of environmental filtering in the functional structure of fish communities in tropical wetlands	Cordova-Tapia, Fernando; Hernandez-Marroquin, Victor; Zambrano, Luis	10.1111/eff.12366	2018	Mexico



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N	Article title	Authors	DOI	Publication year	Country
74	Seasonal changes in the assembly mechanisms structuring tropical fish communities	Fitzgerald, Daniel B.; Winemiller, Kirk O.; Perez, Mark H. Sabaj; Sousa, Leandro M.	10.1002/ecy.1616	2017	Brazil
75	Revealing the pathways by which agricultural land-use affects stream fish communities in South Brazilian grasslands	Dala-Corte, Renato B.; Giam, Xingli; Olden, Julian D.; Becker, Fernando G.; Guimaraes, Tais de F.; Melo, Adriano S.	10.1111/fw.12825	2016	Brazil
76	Riverine networks constrain beta-diversity patterns among fish assemblages in a large Neotropical river	Vitorino Junior, Oscar B.; Fernandes, Rodrigo; Agostinho, Carlos S.; Pelicice, Fernando M.	10.1111/fw.12813	2016	Brazil
77	Taxonomic and functional diversity patterns reveal different processes shaping European and Amazonian stream fish assemblages	Filleros, Kevin; Allard, Luc; Grenouillet, Gael; Brosse, Sebastien	10.1111/jbi.12839	2016	France/ French Guiana
78	Invasion of exotic piscivores causes losses of functional diversity and functionally unique species in Japanese lakes	Matsuzaki, Shin-ichiro S.; Sasaki, Takehiro; Akasaka, Munemitsu	10.1111/fw.12774	2016	Japan
79	Global functional diversity of freshwater fish is concentrated in the Neotropics while functional vulnerability is widespread	Toussaint, A.; Charpin, N.; Brosse, S.; Villeger, S.	10.1038/srep22125	2016	Several
80	Measuring ecosystem degradation through half a century of fish species introductions and extirpations in a large isolated lake	Jiang, Zhong-Guan; Brosse, Sebastien; Jiang, Xiao-Ming; Zhang, E.	10.1016/j.ecolind.2015.05.040	2015	China
81	Relationships between taxonomic and functional components of diversity: implications for conservation of tropical freshwater fishes	de Carvalho, Rodrigo Assis; Tejerina-Garro, Francisco Leonardo	10.1111/fw.12616	2015	Brazil
82	Fish complementarity is associated to forests in Amazonian streams	Bordignon, Carolina Rodrigues; Casatti, Lilian; Perez-Mayorga, Maria Angelica; Teresa, Fabricio Barreto; Brejao, Gabriel Lourenco	10.1590/1982-0224-20140157	2015	Brazil
83	Ecoregional, catchment, and reach-scale environmental factors shape functional-trait structure of stream fish assemblages	Pease, Allison A.; Taylor, Jason M.; Winemiller, Kirk O.; King, Ryan S.	10.1007/s10750-015-2235-z	2015	United States
84	More of the Same: High Functional Redundancy in Stream Fish Assemblages from Tropical Agroecosystems	Casatti, Lilian; Teresa, Fabricio Barreto; Zeni, Jaqueline de Oliveira; Ribeiro, Mariela Domiciano; Brejao, Gabriel Lourenco; Ceneviva-Bastos, Monica	10.1007/s00267-015-0461-9	2015	Brazil
85	Functional differentiation between fish assemblages from forested and deforested streams	Teresa, Fabricio Barreto; Casatti, Lilian; Cianciaruso, Marcus Vinicius	10.1590/1982-0224-20130229	2015	Brazil
86	Environmental and spatial processes: what controls the functional structure of fish assemblages in tropical rivers and headwater streams?	Carvalho, Rodrigo A.; Tejerina-Garro, Francisco L.	10.1111/eff.12152	2015	Brazil
87	Biogeographic determinants of Australian freshwater fish life-history indices assessed within a spatio-phylogenetic framework	Sternberg, David; Kennard, Mark J.; Balcombe, Stephen R.	10.1111/geb.12212	2014	Australia
88	Species contribute differently to the taxonomic, functional, and phylogenetic alpha and beta diversity of freshwater fish communities	Pool, Thomas K.; Grenouillet, Gael; Villeger, Sebastien	10.1111/ddi.12231	2014	France
89	Temporal changes in taxonomic and functional diversity of fish assemblages downstream from mountaintop mining	Hitt, Nathaniel P.; Chambers, Douglas B.	10.1086/676997	2014	United States
90	Temporal changes in the taxonomic and functional diversity of fish communities in shallow Chinese lakes: the effects of river-lake connections and aquaculture	Cheng, Lin; Blanchet, Simon; Loot, Geraldine; Villeger, Sebastien; Zhang, Tanglin; Lek, Sovan; Lek-Ang, Sithan; Li, Zhongjie	10.1002/aqc.2418	2014	China
91	A multi-faceted framework of diversity for prioritizing the conservation of fish assemblages	Maire, Anthony; Buisson, Laetitia; Biau, Samuel; Canal, Julie; Laffaille, Pascal	10.1016/j.ecolind.2013.06.009	2013	France
92	Consequences of the introduction of exotic and translocated species and future extirpations on the functional diversity of freshwater fish assemblages	Matsuzaki, Shin-ichiro S.; Sasaki, Takehiro; Akasaka, Munemitsu	10.1111/geb.12067	2013	Japan
93	A continental-scale analysis of fish assemblage functional structure in European rivers	Logez, Maxime; Bady, Pierre; Melcher, Andreas; Pont, Didier	10.1111/j.1600-0587.2012.07447.x	2013	Several



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N	Article title	Authors	DOI	Publication year	Country
94	Geographic isolation and climate govern the functional diversity of native fish communities in European drainage basins	Schleuter, Diana; Daufresne, Martin; Veslot, Jacques; Mason, Norman W. H.; Lanoiselee, Cedric; Brosse, Sebastien; Beauchard, Olivier; Argillier, Christine	10.1111/j.1466-8238.2012.00763.x	2012	Several
95	Influence of forest cover and mesohabitat types on functional and taxonomic diversity of fish communities in Neotropical lowland streams	Teresa, Fabricio B.; Casatti, Lilian	10.1111/j.1600-0633.2012.00562.x	2012	Brazil
96	Functional diversity and trait-environment relationships of stream fish assemblages in a large tropical catchment	Pease, Allison A.; Gonzalez-Diaz, Alfonso A.; Rodiles-Hernandez, Rocio; Winemiller, Kirk O.	10.1111/j.1365-2427.2012.02768.x	2012	Mexico
97	Environmental drivers of fish functional diversity and composition in the Lower Colorado River Basin	Pool, Thomas K.; Olden, Julian D.; Whittier, Joanna B.; Paukert, Craig P.	10.1139/F10-095	2010	United States
98	Evidence that niche specialization explains species-energy relationships in lake fish communities	Mason, Norman W. H.; Irz, Pascal; Lanoiselee, Cedric; Mouillot, David; Argillier, Christine	10.1111/j.1365-2656.2007.01350.x	2008	France
99	Functional characters combined with null models reveal inconsistency in mechanisms of species turnover in lacustrine fish communities	Mason, Norman W. H.; Lanoiselee, Cedric; Mouillot, David; Irz, Pascal; Argillier, Christine	10.1007/s00442-007-0727-x	2007	France
100	Functional regularity: a neglected aspect of functional diversity	Mouillot, D; Mason, WHN; Dumay, O; Wilson, JB	10.1007/s00442-004-1744-7	2005	France
101	Toward a loss of functional diversity in stream fish assemblages under climate change	Buisson, Laetitia; Grenouillet, Gael; Villeger, Sebastien; Canal, Julie; Laffaille, Pascal	10.1111/gcb.12056	2013	France



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