Christian Wolter

List of Publications by Year
in descending order

125	5,640	81900 39	95266 68
papers	citations	h-index	g-index

131	131	131	5721
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Light pollution as a biodiversity threat. Trends in Ecology and Evolution, 2010, 25, 681-682.	8.7	592
2	The Dark Side of Light: A Transdisciplinary Research Agenda for Light Pollution Policy. Ecology and Society, 2010, 15, .	2.3	375
3	Patterns and predictors of fish dispersal in rivers. Fish and Fisheries, 2014, 15, 456-473.	5.3	235
4	Navigation impacts on freshwater fish assemblages: the ecological relevance of swimming performance. Reviews in Fish Biology and Fisheries, 2003, 13, 63-89.	4.9	197
5	Panâ€continental invasion of Pseudorasbora parva: towards a better understanding of freshwater fish invasions. Fish and Fisheries, 2010, 11, 315-340.	5.3	191
6	Most invasive species largely conserve their climatic niche. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23643-23651.	7.1	173
7	Aerial survey and spatial analysis of sources of light pollution in Berlin, Germany. Remote Sensing of Environment, 2012, 126, 39-50.	11.0	168
8	A behavioral perspective on fishing-induced evolution. Trends in Ecology and Evolution, 2008, 23, 419-421.	8.7	167
9	Understanding and Managing Freshwater Recreational Fisheries as Complex Adaptive Social-Ecological Systems. Reviews in Fisheries Science and Aquaculture, 2017, 25, 1-41.	9.1	143
10	The evolutionary legacy of sizeâ€selective harvesting extends from genes to populations. Evolutionary Applications, 2015, 8, 597-620.	3.1	142
11	The influence of artificial light on stream and riparian ecosystems: questions, challenges, and perspectives. Ecosphere, 2011, 2, art122.	2.2	133
12	A global agenda for advancing freshwater biodiversity research. Ecology Letters, 2022, 25, 255-263.	6.4	95
13	The three Rs of river ecosystem resilience: Resources, recruitment, and refugia. River Research and Applications, 2019, 35, 107-120.	1.7	86
14	The future distribution of river fish: The complex interplay of climate and land use changes, species dispersal and movement barriers. Global Change Biology, 2017, 23, 4970-4986.	9.5	79
15	Species distribution models have limited spatial transferability for invasive species. Ecology Letters, 2020, 23, 1682-1692.	6.4	78
16	Eco-hydrologic model cascades: Simulating land use and climate change impacts on hydrology, hydraulics and habitats for fish and macroinvertebrates. Science of the Total Environment, 2015, 533, 542-556.	8.0	77
17	How to link biomanipulation and sustainable fisheries management: a step-by-step guideline for lakes of the European temperate zone. Fisheries Management and Ecology, 2004, 11, 261-275.	2.0	74
18	Synergistic and antagonistic interactions of future land use and climate change on river fish assemblages. Global Change Biology, 2016, 22, 1505-1522.	9.5	66

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19	Contrasting the roles of section length and instream habitat enhancement for river restoration success: a field study of 20 European restoration projects. Journal of Applied Ecology, 2015, 52, 1518-1527.	4.0	64
20	Contrasting pike (Esox lucius L.) movement and habitat choice between summer and winter in a small lake. Hydrobiologia, 2008, 601, 17-27.	2.0	60
21	Effective River Restoration in the 21st Century. Advances in Ecological Research, 2016, 55, 535-611.	2.7	58
22	The flood of the century on the River Oder: effects on the 0+ fish community and implications for floodplain restoration. River Research and Applications, 2001, 17, 171-190.	0.8	56
23	Fish recruitment in a canal with intensive navigation: implications for ecosystem management. Journal of Fish Biology, 2002, 61, 1386-1402.	1.6	56
24	Temporal and Spatial Patterns of Fish Response to Hydromorphological Processes. River Research and Applications, 2016, 32, 190-201.	1.7	56
25	The underestimated dynamics and impacts of water-based recreational activities on freshwater ecosystems. Environmental Reviews, 2018, 26, 199-213.	4.5	56
26	Diel distribution patterns of fishes in a temperate large lowland river. Journal of Fish Biology, 2004, 64, 632-642.	1.6	55
27	Constructed wetlands as a treatment method for effluents from intensive trout farms. Aquaculture, 2008, 277, 179-184.	3.5	54
28	Conservation of fish species diversity in navigable waterways. Landscape and Urban Planning, 2001, 53, 135-144.	7.5	53
29	Disentangling the effects of habitat suitability, dispersal, and fragmentation on the distribution of river fishes. Ecological Applications, 2015, 25, 914-927.	3.8	49
30	Experimental assessment of the probabilistic maturation reaction norm: condition matters. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 709-717.	2.6	47
31	Domesticated ecosystems and novel communities: challenges for the management of large rivers. Ecohydrology and Hydrobiology, 2011, 11, 167-174.	2.3	45
32	Temperature influence on the fish assemblage structure in a large lowland river, the lower Oder River, Germany. Ecology of Freshwater Fish, 2007, 16, 493-503.	1.4	44
33	Response of fish assemblages to hydromorphological restoration in central and northern European rivers. Hydrobiologia, 2016, 769, 67-78.	2.0	44
34	A systematic review of assessment and conservation management in large floodplain rivers â€“ Actions postponed. Ecological Indicators, 2019, 98, 453-461.	6.3	44
35	Seasonal changes of fish diversity in the main channel of the large lowland River Oder. River Research and Applications, 2001, 17, 595-608.	0.8	43
36	Challenges in developing fishâ€based ecological assessment methods for large floodplain rivers. Fisheries Management and Ecology, 2007, 14, 483-494.	2.0	43

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37	Site length for biological assessment of boatable rivers. River Research and Applications, 2011, 27, 520-535.	1.7	43
38	Artificial light at night: implications for early life stages development in four temperate freshwater fish species. Aquatic Sciences, 2011, 73, 143-152.	1.5	42
39	Where Are All the Fish: Potential of Biogeographical Maps to Project Current and Future Distribution Patterns of Freshwater Species. PLoS ONE, 2012, 7, e40530.	2.5	42
40	Perch (Perca fluviatilis) as an indicator species for structural degradation in regulated rivers and canals in the lowlands of Germany. Ecology of Freshwater Fish, 1997, 6, 174-181.	1.4	41
41	Distribution history of non-native freshwater fish species in Germany: how invasive are they?. Journal of Applied Ichthyology, 0, 26, 19-27.	0.7	41
42	Expanding conservation culturomics and iEcology from terrestrial to aquatic realms. PLoS Biology, 2020, 18, e3000935.	5.6	41
43	Sizeâ€dependent reproductive success of wild zebrafish Danio rerio in the laboratory. Journal of Fish Biology, 2010, 77, 552-569.	1.6	40
44	A Model of Navigation-Induced Currents in Inland Waterways and Implications for Juvenile Fish Displacement. Environmental Management, 2004, 34, 656-668.	2.7	37
45	Random displacement versus habitat choice of fish larvae in rivers. River Research and Applications, 2008, 24, 661-672.	1.7	36
46	Fish species sensitivity classification for environmental impact assessment, conservation and restoration planning. Science of the Total Environment, 2020, 708, 135173.	8.0	36
47	Diverse Approaches to Implement and Monitor River Restoration: A Comparative Perspective in France and Germany. Environmental Management, 2017, 60, 931-946.	2.7	35
48	The times are changing: temporal shifts in patterns of fish invasions in central European fresh waters. Journal of Fish Biology, 2013, 82, 17-33.	1.6	34
49	Long-term effects of human influence on fish community structure and fisheries in Berlin waters: an urban water system. Fisheries Management and Ecology, 2000, 7, 97-104.	2.0	32
50	Analysis and evaluation of largeâ€scale river restoration planning in Germany to better link river research and management. River Research and Applications, 2011, 27, 985-999.	1.7	30
51	The gain of additional sampling methods for the fish-based assessment of large rivers. Fisheries Research, 2018, 197, 15-24.	1.7	30
52	Amplitude of ecological potential: chub Leuciscus cephalus (L.) spawning in an artificial lowland canal. Journal of Applied Ichthyology, 2003, 19, 52-54.	0.7	29
53	Variability and alterations of water temperatures across the Elbe and Danube River Basins. Climatic Change, 2013, 119, 375-389.	3.6	29
54	Components and drivers of change in European freshwater fish faunas. Journal of Biogeography, 2017, 44, 1781-1790.	3.0	29

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55	Improved river continuity facilitates fishes' abilities to track future environmental changes. Journal of Environmental Management, 2018, 208, 169-179.	7.8	29
56	When no catches matter: Coping with zeros in environmental assessments. Ecological Indicators, 2010, 10, 572-583.	6.3	28
57	Habitat Use of Juvenile Fish in the Lower Danube and the Danube Delta: Implications for Ecotone Connectivity. Hydrobiologia, 2006, 571, 51-61.	2.0	27
58	Pressures at larger spatial scales strongly influence the ecological status of heavily modified river water bodies in Germany. Science of the Total Environment, 2013, 454-455, 40-50.	8.0	26
59	The contribution of long-term isolated water bodies to floodplain fish diversity. Freshwater Biology, 2011, 56, 1469-1480.	2.4	25
60	Linking fish assemblages and spatiotemporal thermal heterogeneity in a river-floodplain landscape using high-resolution airborne thermal infrared remote sensing and in-situ measurements. Remote Sensing of Environment, 2012, 125, 134-146.	11.0	25
61	Paternal body size affects reproductive success in laboratory-held zebrafish (Danio rerio). Environmental Biology of Fishes, 2012, 93, 461-474.	1.0	25
62	Suitability of pharyngeal bone measures commonly used for reconstruction of prey fish length. Journal of Fish Biology, 2000, 57, 961-967.	1.6	24
63	Environmental flow methodologies to protect fisheries resources in humanâ€modified large lowland rivers. River Research and Applications, 2008, 24, 519-527.	1.7	24
64	Model-based design for restoration of a small urban river. Journal of Hydro-Environment Research, 2015, 9, 226-236.	2.2	24
65	Effect of recreationalâ€fisheries management on fish biodiversity in gravel pit lakes, with contrasts to unmanaged lakes. Journal of Fish Biology, 2019, 94, 865-881.	1.6	24
66	The Past, Present and Future Role of Limnology in Freshwater Fisheries Science. International Review of Hydrobiology, 2008, 93, 541-549.	0.9	23
67	Implications of channel processes for juvenile fish habitats in Alpine rivers. Aquatic Sciences, 2009, 71, 338-349.	1.5	23
68	Salmonid stocking in five North Atlantic jurisdictions: Identifying drivers and barriers to policy change. Aquatic Conservation: Marine and Freshwater Ecosystems, 2018, 28, 1451-1464.	2.0	23
69	Biological invasions reveal how niche change affects the transferability of species distribution models. Ecology, 2022, 103, e3719.	3.2	23
70	Improvement of aquatic vegetation in urban waterways using protected artificial shallows. Ecological Engineering, 2012, 42, 160-167.	3.6	22
71	FIDIMO â€" A free and open source GIS based dispersal model for riverine fish. Ecological Informatics, 2014, 24, 238-247.	5.2	21
72	Historic catches, abundance, and decline of Atlantic salmon Salmo salar in the River Elbe. Aquatic Sciences, 2015, 77, 367-380.	1.5	21

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73	Disentangling multiple pressures on fish assemblages in large rivers. Science of the Total Environment, 2018, 627, 1093-1105.	8.0	21
74	The effects of recreational and commercial navigation on fish assemblages in large rivers. Science of the Total Environment, 2019, 646, 1304-1314.	8.0	21
75	Spatial Scaling of Environmental Variables Improves Species-Habitat Models of Fishes in a Small, Sand-Bed Lowland River. PLoS ONE, 2015, 10, e0142813.	2.5	21
76	A fish-based typology of small temperate rivers in the northeastern lowlands of Germany. Limnologica, 2006, 36, 2-16.	1.5	20
77	Coupling systematic planning and expert judgement enhances the efficiency of river restoration. Science of the Total Environment, 2016, 560-561, 266-273.	8.0	20
78	Differential Allocation by Female Zebrafish (Danio rerio) to Different-Sized Males â€“ An Example in a Fish Species Lacking Parental Care. PLoS ONE, 2012, 7, e48317.	2.5	20
79	Functional vs scenic restoration â€“ challenges to improve fish and fisheries in urban waters. Fisheries Management and Ecology, 2010, 17, 176-185.	2.0	19
80	A Modelling Framework to Assess the Effect of Pressures on River Abiotic Habitat Conditions and Biota. PLoS ONE, 2015, 10, e0130228.	2.5	19
81	Groyne-heads as potential summer habitats for juvenile rheophilic fishes in the Lower Oder, Germany. Limnologica, 2001, 31, 17-26.	1.5	17
82	The role of floods and droughts on riverine ecosystems under a changing climate. Fisheries Management and Ecology, 2019, 26, 461-473.	2.0	17
83	On the conservation value of historic canals for aquatic ecosystems. Biological Conservation, 2020, 251, 108764.	4.1	17
84	Rivers of the Central European Highlands and Plains. , 2009, , 525-576.		16
85	Modelling the Influence of Aquatic Vegetation on the Hydrodynamics of an Alternative Bank Protection Measure in a Navigable Waterway. River Research and Applications, 2016, 32, 2071-2080.	1.7	16
86	Ecological impacts of water-based recreational activities on freshwater ecosystems: a global meta-analysis. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211623.	2.6	16
87	Differences among Expert Judgments of Fish Habitat Suitability and Implications for River Management. River Research and Applications, 2017, 33, 538-547.	1.7	15
88	Characterization of the typical fish community of inland waterways of the north-eastern lowlands in Germany. River Research and Applications, 1997, 13, 335-343.	0.8	14
89	Fuzzy cognitive mapping for predicting hydromorphological responses to multiple pressures in rivers. Journal of Applied Ecology, 2016, 53, 559-566.	4.0	14
90	Do We Know Enough to Save European Riverine Fish?â€"A Systematic Review on Autecological Requirements During Critical Life Stages of 10 Rheophilic Species at Risk. Sustainability, 2019, 11, 5011.	3.2	14

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91	Effects of macrophyte development on the oxygen metabolism of an urban river rehabilitation structure. Science of the Total Environment, 2017, 574, 1125-1130.	8.0	13
92	Thermal and maternal environments shape the value of early hatching in a natural population of a strongly cannibalistic freshwater fish. Oecologia, 2015, 178, 951-965.	2.0	12
93	Habitat rehabilitation in urban waterways: the ecological potential of bank protection structures for benthic invertebrates. Urban Ecosystems, 2017, 20, 759-773.	2.4	12
94	Performance level and efficiency of two differing predator-avoidance strategies depend on nutritional state of the prey fish. Behavioral Ecology and Sociobiology, 2009, 63, 1735-1742.	1.4	11
95	Impoverishment of YOYâ€fish assemblages by intense commercial navigation in a large Lowland river. River Research and Applications, 2011, 27, 1253-1263.	1.7	11
96	Status of aquatic and riparian biodiversity in artificial lake ecosystems with and without management for recreational fisheries: Implications for conservation. Aquatic Conservation: Marine and Freshwater Ecosystems, 2021, 31, 153-172.	2.0	11
97	Performance of bottom ramps to mitigate gravel habitat bottlenecks in a channelized lowland river. Restoration Ecology, 2015, 23, 595-606.	2.9	9
98	Fish passes design discharge requirements for successful operation. River Research and Applications, 2019, 35, 1697-1701.	1.7	9
99	The European Fish Hazard Index â€“ An assessment tool for screening hazard of hydropower plants for fish. Sustainable Energy Technologies and Assessments, 2021, 43, 100903.	2.7	9
100	A day on the shore: Ecological impacts of non-motorised recreational activities in and around inland water bodies. Journal for Nature Conservation, 2021, 64, 126073.	1.8	9
101	Estimating the potential for habitat restoration and connectivity effects on European sturgeon (Acipenser sturioL. 1758) population rehabilitation in a lowland river - the Havel, Germany. Journal of Applied Ichthyology, 2014, 30, 1473-1482.	0.7	8
102	Using commercial catch statistics to detect habitat bottlenecks in large lowland rivers. River Research and Applications, 2005, 21, 245-255.	1.7	7
103	Sustainability assessment of hydropower water wheels with downstream migrating fish and blade strike modelling. Sustainable Energy Technologies and Assessments, 2021, 43, 100943.	2.7	7
104	Environmental determinants of fish abundance in the littoral zone of gravel pit lakes. Hydrobiologia, 2021, 848, 2449-2471.	2.0	7
105	First record of the round goby Neogobius melanostomus (Pallas, 1814) in the lower River Oder, Germany. BioInvasions Records, 2014, 3, 185-188.	1.1	7
106	Evident but contextâ€dependent mortality of fish passing hydroelectric turbines. Conservation Biology, 2022, 36, .	4.7	7
107	Extensions to the known range of the whitefin gudgeon to Europe and biogeographical implications. Journal of Fish Biology, 2000, 57, 1339-1342.	1.6	6
108	Rapid changes of fish assemblages in artificial lowland waterways. Limnologica, 2001, 31, 27-35.	1.5	6

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109	Quantitative response of riverine benthic invertebrates to sediment grain size and shear stress. Hydrobiologia, 2019, 834, 47-61.	2.0	6
110	Characterization of European lampreys and fishes by their longitudinal and lateral distribution traits. Ecological Indicators, 2021, 123, 107350.	6.3	6
111	How much habitat does a river need? A spatially-explicit population dynamics model to assess ratios of ontogenetical habitat needs. Journal of Environmental Management, 2021, 286, 112100.	7.8	6
112	Title is missing!. , 1999, 394, 163-177.		5
113	Assessing how uncertainty and stochasticity affect the dispersal of fish in river networks. Ecological Modelling, 2017, 359, 220-228.	2.5	5
114	Habitat rehabilitation for juvenile fish in urban waterways: A case study from Berlin, Germany. Journal of Applied Ichthyology, 2017, 33, 136-143.	0.7	5
115	Relatively large males lower reproductive success in female zebrafish. Environmental Biology of Fishes, 2018, 101, 1625-1638.	1.0	5
116	In situ estimation of gastric evacuation and consumption rates of burbot (Lota lota) in a summer-warm lowland river. Journal of Applied Ichthyology, 2011, 27, 1236-1241.	0.7	3
117	Fish recruitment in a canal with intensive navigation: implications for ecosystem management. Journal of Fish Biology, 2002, 61, 1386-1402.	1.6	3
118	Reply to Stroud: Invasive amphibians and reptiles from islands indeed show higher niche expansion than mainland species. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	3
119	Impacts and Risks of Hydropower. , 2022, , 41-60.		3
120	Sub-population structure of common fish species in the Elbe River estimated from DNA analysis. Journal of Applied Ichthyology, 2003, 19, 278-283.	0.7	2
121	Seasonal changes of fish diversity in the main channel of the large lowland River Oder. River Research and Applications, 2001, 17, 595-608.	0.8	2
122	Regulatory Aspects of Choice and Operation of Large-Scale Cooling Systems in Europe. , 2012, , 421-454.		2
123	Limited contribution of predation by zooplanktivorous cyprinids to 0+ fish mortality. Journal of Applied Ichthyology, 2012, 28, 735-739.	0.7	0
124	River Resilienceâ€. , 2021, , .		0
125	Comparative assessment of hydropower risks for fishes using the novel European fish hazard Index. Sustainable Energy Technologies and Assessments, 2022, 51, 101906.	2.7	0