Frank J Rahel

List of Publications by Year
in descending order

81	6,633	81900	69250
papers	citations	39 h-index	77 g-index

82	82	82	5681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessing the Effects of Climate Change on Aquatic Invasive Species. Conservation Biology, 2008, 22, 521-533.	4.7	944
2	Homogenization of Freshwater Faunas. Annual Review of Ecology, Evolution, and Systematics, 2002, 33, 291-315.	6.7	664
3	Homogenization of Fish Faunas Across the United States. Science, 2000, 288, 854-856.	12.6	601
4	Biogeographic barriers, connectivity and homogenization of freshwater faunas: it's a small world after all. Freshwater Biology, 2007, 52, 696-710.	2.4	335
5	Fish Assemblages and Habitat Gradients in a Rocky Mountainâ€“Great Plains Stream: Biotic Zonation and Additive Patterns of Community Change. Transactions of the American Fisheries Society, 1991, 120, 319-332.	1.4	308
6	The Hierarchical Nature of Community Persistence: A Problem of Scale. American Naturalist, 1990, 136, 328-344.	2.1	227
7	Factors Structuring Fish Assemblages Along a Bog Lake Successional Gradient. Ecology, 1984, 65, 1276-1289.	3.2	171
8	Complex predator-prey interactions and predator intimidation among crayfish, piscivorous fish, and small benthic fish. Oecologia, 1988, 75, 94-98.	2.0	164
9	Temperature mediation of competitive interactions among three fish species that replace each other along longitudinal stream gradients. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1894-1901.	1.4	156
10	Intentional Fragmentation as a Management Strategy in Aquatic Systems. BioScience, 2013, 63, 362-372.	4.9	150
11	Thermal Limits to Salmonid Distributions in the Rocky Mountain Region and Potential Habitat Loss Due to Global Warming: A Geographic Information System (GIS) Approach. Transactions of the American Fisheries Society, 1996, 125, 1-13.	1.4	144
12	Influence of Water Temperature on Interactions between Juvenile Colorado River Cutthroat Trout and Brook Trout in a Laboratory Stream. Transactions of the American Fisheries Society, 1994, 123, 289-297.	1.4	131
13	Managing Aquatic Species of Conservation Concern in the Face of Climate Change and Invasive Species. Conservation Biology, 2008, 22, 551-561.	4.7	130
14	Isolation Management with Artificial Barriers as a Conservation Strategy for Cutthroat Trout in Headwater Streams. Conservation Biology, 2003, 17, 772-781.	4.7	123
15	Foraging in a Lethal Environment: Fish Predation in Hypoxic Waters of a Stratified Lake. Ecology, 1994, 75, 1246-1253.	3.2	120
16	Potential habitat loss and population fragmentation for cold water fish in the North Platte River drainage of the Rocky Mountains: Response to climate warming. Limnology and Oceanography, 1996, 41, 1116-1123.	3.1	118
17	Science Priorities for Reducing the Threat of Invasive Species to Sustainable Forestry. BioScience, 2005, 55, 335.	4.9	117
18	Interaction of a biotic factor (predator presence) and an abiotic factor (low oxygen) as an influence on benthic invertebrate communities. Oecologia, 1993, 95, 210-219.	2.0	88

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19	Effort Needed to Estimate Species Richness in Small Streams on the Great Plains in Wyoming. North American Journal of Fisheries Management, 2000, 20, 394-398.	1.0	87
20	Single-Pass Electrofishing Predicts Trout Abundance in Mountain Streams with Sparse Habitat. North American Journal of Fisheries Management, 1998, 18, 940-946.	1.0	82
21	Selective fragmentation and the management of fish movement across anthropogenic barriers. Ecological Applications, 2018, 28, 2066-2081.	3.8	81
22	Evaluation of Depletion-Removal Electrofishing of Brook Trout in Small Rocky Mountain Streams. North American Journal of Fisheries Management, 1996, 16, 332-339.	1.0	77
23	Managing for RADical ecosystem change: applying the Resistâ€Acceptâ€Direct (RAD) framework. Frontiers in Ecology and the Environment, 2021, 19, 461-469.	4.0	77
24	Using Historical Data to Assess Changes in Wyoming's Fish Fauna. Conservation Biology, 1998, 12, 1120-1128.	4.7	74
25	Responding to Ecosystem Transformation: Resist, Accept, or Direct?. Fisheries, 2021, 46, 8-21.	0.8	73
26	One Hundred Pressing Questions on the Future of Global Fish Migration Science, Conservation, and Policy. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	66
27	Assessing Temperature Tolerance of Bonneville Cutthroat Trout Based on Constant and Cycling Thermal Regimes. Transactions of the American Fisheries Society, 2003, 132, 92-99.	1.4	65
28	Geomorphic Influences on the Distribution of Yellowstone Cutthroat Trout in the Absaroka Mountains, Wyoming. Transactions of the American Fisheries Society, 1997, 126, 418-427.	1.4	61
29	Temporal Variation in Trout Populations: Implications for Monitoring and Trend Detection. Transactions of the American Fisheries Society, 2009, 138, 38-51.	1.4	58
30	Spatial patterns in relations among brown trout (Salmo trutta) distribution, summer air temperature, and stream size in Rocky Mountain streams. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 43-51.	1.4	56
31	Evaluating Laboratory-Derived Thermal Criteria in the Field: An Example Involving Bonneville Cutthroat Trout. Transactions of the American Fisheries Society, 2003, 132, 100-109.	1.4	55
32	Movement patterns in inland cutthroat trout (Oncorhynchus clarki utah): management and conservation implications. Canadian Journal of Fisheries and Aquatic Sciences, 2004, 61, 1528-1537.	1.4	54
33	Relations of Physical Habitat to Abundance of Four Nongame Fishes in High-Plains Streams: A Test of Habitat Suitability Index Models. North American Journal of Fisheries Management, 1989, 9, 332-340.	1.0	50
34	Assessing Habitat Requirements of Young Colorado River Cutthroat Trout by Use of Macrohabitat and Microhabitat Analyses. Transactions of the American Fisheries Society, 1991, 120, 571-581.	1.4	49
35	Complementation of Habitats for Bonneville Cutthroat Trout in Watersheds Influenced by Beavers, Livestock, and Drought. Transactions of the American Fisheries Society, 2008, 137, 881-894.	1.4	49
36	Evaluation of Artificial Barriers in Small Rocky Mountain Streams for Preventing the Upstream Movement of Brook Trout. North American Journal of Fisheries Management, 1998, 18, 206-210.	1.0	46

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37	Climate change creates rapid species turnover in montane communities. Ecology and Evolution, 2015, 5, 2340-2347.	1.9	45
38	Relations among Habitat Characteristics, Exotic Species, and Turbid-River Cyprinids in the Missouri River Drainage of Wyoming. Transactions of the American Fisheries Society, 2004, 133, 727-742.	1.4	43
39	Inconsistent Range Shifts within Species Highlight Idiosyncratic Responses to Climate Warming. PLoS ONE, 2015, 10, e0132103.	2.5	43
40	Influences of Fragmentation on Three Species of Native Warmwater Fishes in a Colorado River Basin Headwater Stream System, Wyoming. North American Journal of Fisheries Management, 2008, 28, 1733-1743.	1.0	40
41	Trade-offs in the response of mayflies to low oxygen and fish predation. Oecologia, 1990, 84, 39-44.	2.0	39
42	Pathways of unauthorized fish introductions and types of management responses. Hydrobiologia, 2018, 817, 41-56.	2.0	34
43	Factors Influencing the Size Structure of Brook Trout Populations in Beaver Ponds in Wyoming. North American Journal of Fisheries Management, 1992, 12, 118-124.	1.0	32
44	RAD Adaptive Management for Transforming Ecosystems. BioScience, 2022, 72, 45-56.	4.9	32
45	Distribution modelling to guide stream fish conservation: an example using the mountain sucker in the Black Hills National Forest, USA. Aquatic Conservation: Marine and Freshwater Ecosystems, 2008, 18, 1263-1276.	2.0	29
46	The effectiveness of surrogate taxa to conserve freshwater biodiversity. Conservation Biology, 2018, 32, 183-194.	4.7	28
47	Comparison of Streamside Visual Counts to Electrofishing Estimates of Colorado River Cutthroat Trout Fry and Adults. North American Journal of Fisheries Management, 1991, 11, 38-42.	1.0	24
48	Elevation and Stream-Size Thresholds Affect Distributions of Native and Exotic Warmwater Fishes in Wyoming. Journal of Freshwater Ecology, 2004, 19, 227-236.	1.2	24
49	Warmed Winter Water Temperatures Alter Reproduction in Two Fish Species. Environmental Management, 2018, 61, 291-303.	2.7	24
50	Relationships of Elevation, Channel Slope, and Stream Width to Occurrences of Native Fishes at the Great Plains-Rocky Mountains Interface. Journal of Freshwater Ecology, 2005, 20, 695-705.	1.2	23
51	The interaction of exposure and warming tolerance determines fish species vulnerability to warming stream temperatures. Biology Letters, 2018, 14, 20180342.	2.3	23
52	Irrigation Canals as Sink Habitat for Trout and Other Fishes in a Wyoming Drainage. Transactions of the American Fisheries Society, 2008, 137, 951-961.	1.4	22
53	Natural and anthropogenic barriers to climate tracking in river fishes along a mountainâ€“plains transition zone. Diversity and Distributions, 2017, 23, 761-770.	4.1	21
54	Persistence of Colorado River Cutthroat Trout Populations in Isolated Headwater Streams of Wyoming. Transactions of the American Fisheries Society, 2010, 139, 1500-1510.	1.4	18

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55	Managing Freshwater Fish in a Changing Climate: Resist, Accept, or Direct. Fisheries, 2022, 47, 245-255.	0.8	18
56	A Basinwide Perspective on Entrainment of Fish in Irrigation Canals. Transactions of the American Fisheries Society, 2007, 136, 1335-1343.	1.4	17
57	Integrating Fish Assemblage Data, Modeled Stream Temperatures, and Thermal Tolerance Metrics to Develop Thermal Guilds for Water Temperature Regulation: Wyoming Case Study. Transactions of the American Fisheries Society, 2019, 148, 739-754.	1.4	17
58	Environmental filters of freshwater fish community assembly along elevation and latitudinal gradients. Global Ecology and Biogeography, 2022, 31, 470-485.	5.8	17
59	Changing Philosophies of Fisheries Management as Illustrated by the History of Fishing Regulations in Wyoming. Fisheries, 2016, 41, 38-48.	0.8	15
60	Spatial scale, reservoirs and nonnative species influence the homogenization and differentiation of Great Plainsâ€"Rocky Mountain fish faunas. Hydrobiologia, 2020, 847, 3743-3757.	2.0	14
61	Air temperatures overâ€predict changes to stream fish assemblages with climate warming compared with water temperatures. Ecological Applications, 2022, 32, e02465.	3.8	14
62	Factors influencing summer movement patterns of Bonneville cutthroat trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	1.4	13
63	Habitat Features Affect Bluehead Sucker, Flannelmouth Sucker, and Roundtail Chub across a Headwater Tributary System in the Colorado River Basin. Journal of Freshwater Ecology, 2008, 23, 347-357.	1.2	12
64	Landscapeâ€scale determinants of native and nonâ€native Great Plains fish distributions. Diversity and Distributions, 2016, 22, 225-238.	4.1	12
65	Ecological and social strategies for managing fisheries using the Resistâ€Acceptâ€Direct (RAD) framework. Fisheries Management and Ecology, 2022, 29, 329-345.	2.0	12
66	Relations between Brook Trout Standing Stocks and Habitat Features in Beaver Ponds in Southeastern Wyoming. North American Journal of Fisheries Management, 1990, 10, 72-79.	1.0	10
67	Accuracy of Aerial Telemetry in Fisheries Studies. North American Journal of Fisheries Management, 2005, 25, 660-666.	1.0	10
68	Power of Revisit Monitoring Designs to Detect Forestwide Declines in Trout Populations. North American Journal of Fisheries Management, 2010, 30, 1462-1468.	1.0	9
69	Annual Intrabasin Movement and Mortality of Adult Bonneville Cutthroat Trout among Complementary Riverine Habitats. Transactions of the American Fisheries Society, 2010, 139, 1360-1371.	1.4	6
70	A comparison of freshwater fisheries management in the USA and Japan. Fisheries Science, 2019, 85, 271-283.	1.6	6
71	Nonlethal Fin Sampling of North American Freshwater Fishes for Food Web Studies Using Stable Isotopes. North American Journal of Fisheries Management, 2021, 41, 410-420.	1.0	6
72	Climatic drivers and ecological impacts of a rapid range expansion by non-native smallmouth bass. Biological Invasions, 2022, 24, 1311-1326.	2.4	6

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73	Spatial Patterns of Fish Assemblage Structure in a Tributary System of the Upper Colorado River Basin. Journal of Freshwater Ecology, 2006, 21, 673-680.	1.2	5
74	Patch size and shape influence the accuracy of mapping small habitat patches with a global positioning system. Environmental Monitoring and Assessment, 2011, 179, 123-135.	2.7	5
75	Fish Energy Use among Fluctuating and Constant Thermal Regimes Simulating Winter Conditions in Rivers. Transactions of the American Fisheries Society, 2015, 144, 990-997.	1.4	5
76	Simulation of Vertical Limnological Gradients. Journal of Freshwater Ecology, 1989, 5, 247-252.	1.2	3
77	Effect of temperature on 13C and 15N incorporation rates and discrimination factors in two North American fishes. Canadian Journal of Fisheries and Aquatic Sciences, 0, , .	1.4	3
78	Managing fisheries within a <scp>RAD</scp> framework: Concepts and applications. Fisheries Management and Ecology, 2022, 29, 323-328.	2.0	2
79	Comparison of Streamside Visual Counts to Electrofishing Estimates of Colorado River Cutthroat Trout Fry and Adults. , 1991, 11, 38.		1
80	Differential Interactions of Two Introduced Piscivorous Salmonids with a Native Cyprinid in Lentic Systems: Implications for Conservation of Roundtail Chub. Transactions of the American Fisheries Society, 2012, 141, 495-506.	1.4	0
81	Use of Natural and Added Cover Types by Game and Nongame Fishes in a Great Plains River. North American Journal of Fisheries Management, 2019, 39, 980-988.	1.0	0