

Frank J Rahel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2841454/publications.pdf>

Version: 2024-02-01

81
papers

6,633
citations

81900

39
h-index

69250

77
g-index

82
all docs

82
docs citations

82
times ranked

5681
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | RAD Adaptive Management for Transforming Ecosystems. <i>BioScience</i> , 2022, 72, 45-56. | 4.9 | 32 |
| 2 | Air temperatures overâ€predict changes to stream fish assemblages with climate warming compared with water temperatures. <i>Ecological Applications</i> , 2022, 32, e02465. | 3.8 | 14 |
| 3 | Managing Freshwater Fish in a Changing Climate: Resist, Accept, or Direct. <i>Fisheries</i> , 2022, 47, 245-255. | 0.8 | 18 |
| 4 | Climatic drivers and ecological impacts of a rapid range expansion by non-native smallmouth bass. <i>Biological Invasions</i> , 2022, 24, 1311-1326. | 2.4 | 6 |
| 5 | Environmental filters of freshwater fish community assembly along elevation and latitudinal gradients. <i>Global Ecology and Biogeography</i> , 2022, 31, 470-485. | 5.8 | 17 |
| 6 | Ecological and social strategies for managing fisheries using the Resistâ€Acceptâ€Direct (RAD) framework. <i>Fisheries Management and Ecology</i> , 2022, 29, 329-345. | 2.0 | 12 |
| 7 | Managing fisheries within a <scp>RAD</scp> framework: Concepts and applications. <i>Fisheries Management and Ecology</i> , 2022, 29, 323-328. | 2.0 | 2 |
| 8 | Responding to Ecosystem Transformation: Resist, Accept, or Direct?. <i>Fisheries</i> , 2021, 46, 8-21. | 0.8 | 73 |
| 9 | Nonlethal Fin Sampling of North American Freshwater Fishes for Food Web Studies Using Stable Isotopes. <i>North American Journal of Fisheries Management</i> , 2021, 41, 410-420. | 1.0 | 6 |
| 10 | Managing for RADical ecosystem change: applying the Resistâ€Acceptâ€Direct (RAD) framework. <i>Frontiers in Ecology and the Environment</i> , 2021, 19, 461-469. | 4.0 | 77 |
| 11 | Spatial scale, reservoirs and nonnative species influence the homogenization and differentiation of Great Plainsâ€Rocky Mountain fish faunas. <i>Hydrobiologia</i> , 2020, 847, 3743-3757. | 2.0 | 14 |
| 12 | One Hundred Pressing Questions on the Future of Global Fish Migration Science, Conservation, and Policy. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, . | 2.2 | 66 |
| 13 | Use of Natural and Added Cover Types by Game and Nongame Fishes in a Great Plains River. <i>North American Journal of Fisheries Management</i> , 2019, 39, 980-988. | 1.0 | 0 |
| 14 | Integrating Fish Assemblage Data, Modeled Stream Temperatures, and Thermal Tolerance Metrics to Develop Thermal Guilds for Water Temperature Regulation: Wyoming Case Study. <i>Transactions of the American Fisheries Society</i> , 2019, 148, 739-754. | 1.4 | 17 |
| 15 | A comparison of freshwater fisheries management in the USA and Japan. <i>Fisheries Science</i> , 2019, 85, 271-283. | 1.6 | 6 |
| 16 | Pathways of unauthorized fish introductions and types of management responses. <i>Hydrobiologia</i> , 2018, 817, 41-56. | 2.0 | 34 |
| 17 | The effectiveness of surrogate taxa to conserve freshwater biodiversity. <i>Conservation Biology</i> , 2018, 32, 183-194. | 4.7 | 28 |
| 18 | Warmed Winter Water Temperatures Alter Reproduction in Two Fish Species. <i>Environmental Management</i> , 2018, 61, 291-303. | 2.7 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The interaction of exposure and warming tolerance determines fish species vulnerability to warming stream temperatures. <i>Biology Letters</i> , 2018, 14, 20180342. | 2.3 | 23 |
| 20 | Selective fragmentation and the management of fish movement across anthropogenic barriers. <i>Ecological Applications</i> , 2018, 28, 2066-2081. | 3.8 | 81 |
| 21 | Natural and anthropogenic barriers to climate tracking in river fishes along a mountainâ€‘plains transition zone. <i>Diversity and Distributions</i> , 2017, 23, 761-770. | 4.1 | 21 |
| 22 | Landscapeâ€‘scale determinants of native and nonâ€‘native Great Plains fish distributions. <i>Diversity and Distributions</i> , 2016, 22, 225-238. | 4.1 | 12 |
| 23 | Changing Philosophies of Fisheries Management as Illustrated by the History of Fishing Regulations in Wyoming. <i>Fisheries</i> , 2016, 41, 38-48. | 0.8 | 15 |
| 24 | Fish Energy Use among Fluctuating and Constant Thermal Regimes Simulating Winter Conditions in Rivers. <i>Transactions of the American Fisheries Society</i> , 2015, 144, 990-997. | 1.4 | 5 |
| 25 | Climate change creates rapid species turnover in montane communities. <i>Ecology and Evolution</i> , 2015, 5, 2340-2347. | 1.9 | 45 |
| 26 | Inconsistent Range Shifts within Species Highlight Idiosyncratic Responses to Climate Warming. <i>PLoS ONE</i> , 2015, 10, e0132103. | 2.5 | 43 |
| 27 | Intentional Fragmentation as a Management Strategy in Aquatic Systems. <i>BioScience</i> , 2013, 63, 362-372. | 4.9 | 150 |
| 28 | Differential Interactions of Two Introduced Piscivorous Salmonids with a Native Cyprinid in Lentic Systems: Implications for Conservation of Roundtail Chub. <i>Transactions of the American Fisheries Society</i> , 2012, 141, 495-506. | 1.4 | 0 |
| 29 | Patch size and shape influence the accuracy of mapping small habitat patches with a global positioning system. <i>Environmental Monitoring and Assessment</i> , 2011, 179, 123-135. | 2.7 | 5 |
| 30 | Annual Intraspecific Movement and Mortality of Adult Bonneville Cutthroat Trout among Complementary Riverine Habitats. <i>Transactions of the American Fisheries Society</i> , 2010, 139, 1360-1371. | 1.4 | 6 |
| 31 | Power of Revisit Monitoring Designs to Detect Forestwide Declines in Trout Populations. <i>North American Journal of Fisheries Management</i> , 2010, 30, 1462-1468. | 1.0 | 9 |
| 32 | Persistence of Colorado River Cutthroat Trout Populations in Isolated Headwater Streams of Wyoming. <i>Transactions of the American Fisheries Society</i> , 2010, 139, 1500-1510. | 1.4 | 18 |
| 33 | Temporal Variation in Trout Populations: Implications for Monitoring and Trend Detection. <i>Transactions of the American Fisheries Society</i> , 2009, 138, 38-51. | 1.4 | 58 |
| 34 | Distribution modelling to guide stream fish conservation: an example using the mountain sucker in the Black Hills National Forest, USA. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2008, 18, 1263-1276. | 2.0 | 29 |
| 35 | Assessing the Effects of Climate Change on Aquatic Invasive Species. <i>Conservation Biology</i> , 2008, 22, 521-533. | 4.7 | 944 |
| 36 | Managing Aquatic Species of Conservation Concern in the Face of Climate Change and Invasive Species. <i>Conservation Biology</i> , 2008, 22, 551-561. | 4.7 | 130 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Complementation of Habitats for Bonneville Cutthroat Trout in Watersheds Influenced by Beavers, Livestock, and Drought. <i>Transactions of the American Fisheries Society</i> , 2008, 137, 881-894. | 1.4 | 49 |
| 38 | Influences of Fragmentation on Three Species of Native Warmwater Fishes in a Colorado River Basin Headwater Stream System, Wyoming. <i>North American Journal of Fisheries Management</i> , 2008, 28, 1733-1743. | 1.0 | 40 |
| 39 | Irrigation Canals as Sink Habitat for Trout and Other Fishes in a Wyoming Drainage. <i>Transactions of the American Fisheries Society</i> , 2008, 137, 951-961. | 1.4 | 22 |
| 40 | Habitat Features Affect Bluehead Sucker, Flannelmouth Sucker, and Roundtail Chub across a Headwater Tributary System in the Colorado River Basin. <i>Journal of Freshwater Ecology</i> , 2008, 23, 347-357. | 1.2 | 12 |
| 41 | A Basinwide Perspective on Entrainment of Fish in Irrigation Canals. <i>Transactions of the American Fisheries Society</i> , 2007, 136, 1335-1343. | 1.4 | 17 |
| 42 | Biogeographic barriers, connectivity and homogenization of freshwater faunas: it's a small world after all. <i>Freshwater Biology</i> , 2007, 52, 696-710. | 2.4 | 335 |
| 43 | Factors influencing summer movement patterns of Bonneville cutthroat trout (<i>Oncorhynchus tshawytscha</i>) in the Snake River Basin. <i>Journal of Great Lakes Research</i> , 2007, 33, 107-113. | 1.4 | 13 |
| 44 | Spatial Patterns of Fish Assemblage Structure in a Tributary System of the Upper Colorado River Basin. <i>Journal of Freshwater Ecology</i> , 2006, 21, 673-680. | 1.2 | 5 |
| 45 | Science Priorities for Reducing the Threat of Invasive Species to Sustainable Forestry. <i>BioScience</i> , 2005, 55, 335. | 4.9 | 117 |
| 46 | Relationships of Elevation, Channel Slope, and Stream Width to Occurrences of Native Fishes at the Great Plains-Rocky Mountains Interface. <i>Journal of Freshwater Ecology</i> , 2005, 20, 695-705. | 1.2 | 23 |
| 47 | Accuracy of Aerial Telemetry in Fisheries Studies. <i>North American Journal of Fisheries Management</i> , 2005, 25, 660-666. | 1.0 | 10 |
| 48 | Relations among Habitat Characteristics, Exotic Species, and Turbid-River Cyprinids in the Missouri River Drainage of Wyoming. <i>Transactions of the American Fisheries Society</i> , 2004, 133, 727-742. | 1.4 | 43 |
| 49 | Movement patterns in inland cutthroat trout (<i>Oncorhynchus clarki utah</i>): management and conservation implications. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004, 61, 1528-1537. | 1.4 | 54 |
| 50 | Elevation and Stream-Size Thresholds Affect Distributions of Native and Exotic Warmwater Fishes in Wyoming. <i>Journal of Freshwater Ecology</i> , 2004, 19, 227-236. | 1.2 | 24 |
| 51 | Isolation Management with Artificial Barriers as a Conservation Strategy for Cutthroat Trout in Headwater Streams. <i>Conservation Biology</i> , 2003, 17, 772-781. | 4.7 | 123 |
| 52 | Assessing Temperature Tolerance of Bonneville Cutthroat Trout Based on Constant and Cycling Thermal Regimes. <i>Transactions of the American Fisheries Society</i> , 2003, 132, 92-99. | 1.4 | 65 |
| 53 | Evaluating Laboratory-Derived Thermal Criteria in the Field: An Example Involving Bonneville Cutthroat Trout. <i>Transactions of the American Fisheries Society</i> , 2003, 132, 100-109. | 1.4 | 55 |
| 54 | Homogenization of Freshwater Faunas. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2002, 33, 291-315. | 6.7 | 664 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Homogenization of Fish Faunas Across the United States. <i>Science</i> , 2000, 288, 854-856. | 12.6 | 601 |
| 56 | Effort Needed to Estimate Species Richness in Small Streams on the Great Plains in Wyoming. <i>North American Journal of Fisheries Management</i> , 2000, 20, 394-398. | 1.0 | 87 |
| 57 | Spatial patterns in relations among brown trout (<i>Salmo trutta</i>) distribution, summer air temperature, and stream size in Rocky Mountain streams. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999, 56, 43-51. | 1.4 | 56 |
| 58 | Temperature mediation of competitive interactions among three fish species that replace each other along longitudinal stream gradients. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1998, 55, 1894-1901. | 1.4 | 156 |
| 59 | Single-Pass Electrofishing Predicts Trout Abundance in Mountain Streams with Sparse Habitat. <i>North American Journal of Fisheries Management</i> , 1998, 18, 940-946. | 1.0 | 82 |
| 60 | Evaluation of Artificial Barriers in Small Rocky Mountain Streams for Preventing the Upstream Movement of Brook Trout. <i>North American Journal of Fisheries Management</i> , 1998, 18, 206-210. | 1.0 | 46 |
| 61 | Using Historical Data to Assess Changes in Wyoming's Fish Fauna. <i>Conservation Biology</i> , 1998, 12, 1120-1128. | 4.7 | 74 |
| 62 | Geomorphic Influences on the Distribution of Yellowstone Cutthroat Trout in the Absaroka Mountains, Wyoming. <i>Transactions of the American Fisheries Society</i> , 1997, 126, 418-427. | 1.4 | 61 |
| 63 | Potential habitat loss and population fragmentation for cold water fish in the North Platte River drainage of the Rocky Mountains: Response to climate warming. <i>Limnology and Oceanography</i> , 1996, 41, 1116-1123. | 3.1 | 118 |
| 64 | Thermal Limits to Salmonid Distributions in the Rocky Mountain Region and Potential Habitat Loss Due to Global Warming: A Geographic Information System (GIS) Approach. <i>Transactions of the American Fisheries Society</i> , 1996, 125, 1-13. | 1.4 | 144 |
| 65 | Evaluation of Depletion-Removal Electrofishing of Brook Trout in Small Rocky Mountain Streams. <i>North American Journal of Fisheries Management</i> , 1996, 16, 332-339. | 1.0 | 77 |
| 66 | Influence of Water Temperature on Interactions between Juvenile Colorado River Cutthroat Trout and Brook Trout in a Laboratory Stream. <i>Transactions of the American Fisheries Society</i> , 1994, 123, 289-297. | 1.4 | 131 |
| 67 | Foraging in a Lethal Environment: Fish Predation in Hypoxic Waters of a Stratified Lake. <i>Ecology</i> , 1994, 75, 1246-1253. | 3.2 | 120 |
| 68 | Interaction of a biotic factor (predator presence) and an abiotic factor (low oxygen) as an influence on benthic invertebrate communities. <i>Oecologia</i> , 1993, 95, 210-219. | 2.0 | 88 |
| 69 | Factors Influencing the Size Structure of Brook Trout Populations in Beaver Ponds in Wyoming. <i>North American Journal of Fisheries Management</i> , 1992, 12, 118-124. | 1.0 | 32 |
| 70 | Assessing Habitat Requirements of Young Colorado River Cutthroat Trout by Use of Macrohabitat and Microhabitat Analyses. <i>Transactions of the American Fisheries Society</i> , 1991, 120, 571-581. | 1.4 | 49 |
| 71 | Comparison of Streamside Visual Counts to Electrofishing Estimates of Colorado River Cutthroat Trout Fry and Adults. <i>North American Journal of Fisheries Management</i> , 1991, 11, 38-42. | 1.0 | 24 |
| 72 | Fish Assemblages and Habitat Gradients in a Rocky Mountainâ€“Great Plains Stream: Biotic Zonation and Additive Patterns of Community Change. <i>Transactions of the American Fisheries Society</i> , 1991, 120, 319-332. | 1.4 | 308 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Comparison of Streamside Visual Counts to Electrofishing Estimates of Colorado River Cutthroat Trout Fry and Adults. , 1991, 11, 38. | | 1 |
| 74 | The Hierarchical Nature of Community Persistence: A Problem of Scale. American Naturalist, 1990, 136, 328-344. | 2.1 | 227 |
| 75 | Trade-offs in the response of mayflies to low oxygen and fish predation. Oecologia, 1990, 84, 39-44. | 2.0 | 39 |
| 76 | 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 |
| 77 | 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 |
| 78 | Simulation of Vertical Limnological Gradients. Journal of Freshwater Ecology, 1989, 5, 247-252. | 1.2 | 3 |
| 79 | Complex predator-prey interactions and predator intimidation among crayfish, piscivorous fish, and small benthic fish. Oecologia, 1988, 75, 94-98. | 2.0 | 164 |
| 80 | Factors Structuring Fish Assemblages Along a Bog Lake Successional Gradient. Ecology, 1984, 65, 1276-1289. | 3.2 | 171 |
| 81 | Effect of temperature on ¹³ C and ¹⁵ N incorporation rates and discrimination factors in two North American fishes. Canadian Journal of Fisheries and Aquatic Sciences, 0, , . | 1.4 | 3 |