Edward S Rutherford

List of Publications by Year
in descending order

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62 papers	2,911 citations	185998 28 h-index	168136 53 g-index
62 all docs	62 docs citations	62 times ranked	3038 citing authors

#	Article	IF	Citations
1	The consequences of misrepresenting feedbacks in coupled human and environmental models. Ecological Economics, 2022, 195, 107355.	2.9	4
2	Spatio-temporal trends in the density and condition of a secondary consumer, Bythotrephes, in southern Lake Michigan. Journal of Great Lakes Research, 2022, , .	0.8	0
3	Reviewing uncertainty in bioenergetics and food web models to project invasion impacts: Four major Chinese carps in the Great Lakes. Journal of Great Lakes Research, 2021, 47, 83-95.	0.8	5
4	Potential Effects of Bigheaded Carps on Four Laurentian Great Lakes Food Webs. North American Journal of Fisheries Management, 2021, 41, 999-1019.	0.5	8
5	Space and Species Interactions in Welfare Estimates for Invasive Species Policy. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	4
6	Modeling the interactive effects of nutrient loads, meteorology, and invasive mussels on suitable habitat for Bighead and Silver Carp in Lake Michigan. Biological Invasions, 2020, 22, 2763-2785.	1.2	5
7	Potential establishment and ecological effects of bighead and silver carp in a productive embayment of the Laurentian Great Lakes. Biological Invasions, 2020, 22, 2473-2495.	1.2	11
8	Lake Michigan's suitability for bigheaded carp: The importance of diet flexibility and subsurface habitat. Freshwater Biology, 2019, 64, 1921-1939.	1.2	11
9	Densities, Diets, and Growth Rates of Larval Alewife and Bloater in a Changing Lake Michigan Ecosystem. Transactions of the American Fisheries Society, 2019, 148, 755-770.	0.6	12
10	Modeling potential impacts of three benthic invasive species on the Lake Erie food web. Biological Invasions, 2019, 21, 1697-1719.	1.2	20
11	Ecosystem classification and mapping of the Laurentian Great Lakes. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 1693-1712.	0.7	18
12	Highâ€turbidity events in Western Lake Erie during iceâ€free cycles: Contributions of riverâ€loaded vs. resuspended sediments. Limnology and Oceanography, 2018, 63, 2545-2562.	1.6	34
13	Predicting spread of aquatic invasive species by lake currents. Journal of Great Lakes Research, 2017, 43, 14-32.	0.8	18
14	Refining species distribution model outputs using landscape-scale habitat data: Forecasting grass carp and Hydrilla establishment in the Great Lakes region. Journal of Great Lakes Research, 2017, 43, 298-307.	0.8	12
15	Spatial shifts in salmonine harvest, harvest rate, and effort by charter boat anglers in Lake Michigan, 1992â€“2012. Journal of Great Lakes Research, 2016, 42, 1109-1117.	0.8	4
16	Risk Analysis and Bioeconomics of Invasive Species to Inform Policy and Management. Annual Review of Environment and Resources, 2016, 41, 453-488.	5.6	149
17	Fine-scale spatial variation in ice cover and surface temperature trends across the surface of the Laurentian Great Lakes. Climatic Change, 2016, 138, 71-83.	1.7	98
18	Using Scenarios to Assess Possible Future Impacts of Invasive Species in the Laurentian Great Lakes. North American Journal of Fisheries Management, 2016, 36, 1292-1307.	0.5	15

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19	Assessment of Top-Down and Bottom-Up Controls on the Collapse of Alewives (Alosa) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 74	1.6	35
20	Foraging ecology of walleye and brown trout in a Great Lakes tributary. Journal of Great Lakes Research, 2016, 42, 108-115.	0.8	1
21	Forecasting the Impacts of Silver and Bighead Carp on the Lake Erie Food Web. Transactions of the American Fisheries Society, 2016, 145, 136-162.	0.6	60
22	Use of structured expert judgment to forecast invasions by bighead and silver carp in Lake Erie. Conservation Biology, 2015, 29, 187-197.	2.4	59
23	Investigation of interbasin exchange and interannual variability in <scp>L</scp>ake <scp>E</scp>rie using an unstructuredâ€grid hydrodynamic model. Journal of Geophysical Research: Oceans, 2015, 120, 2212-2232.	1.0	31
24	A spatial classification and database for management, research, and policy making: The Great Lakes aquatic habitat framework. Journal of Great Lakes Research, 2015, 41, 584-596.	0.8	50
25	Biophysical modeling assessment of the drivers for plankton dynamics in dreissenid-colonized western Lake Erie. Ecological Modelling, 2015, 308, 18-33.	1.2	31
26	Rating impacts in a multiâ€stressor world: a quantitative assessment of 50 stressors affecting the Great Lakes. Ecological Applications, 2015, 25, 717-728.	1.8	60
27	Using cultural ecosystem services to inform restoration priorities in the Laurentian Great Lakes. Frontiers in Ecology and the Environment, 2015, 13, 418-424.	1.9	104
28	Outâ€ofâ€sample validation for structured expert judgment of Asian carp establishment in Lake Erie. Integrated Environmental Assessment and Management, 2014, 10, 522-528.	1.6	26
29	The relative impacts of nutrient loads and invasive species on a Great Lakes food web: An Ecopath with Ecosim analysis. Journal of Great Lakes Research, 2014, 40, 35-52.	0.8	44
30	Assessing and addressing the re-eutrophication of Lake Erie: Central basin hypoxia. Journal of Great Lakes Research, 2014, 40, 226-246.	0.8	421
31	Delivery of nutrients and seston from the Muskegon River Watershed to near shore Lake Michigan. Journal of Great Lakes Research, 2013, 39, 672-681.	0.8	30
32	Trophic Shift, Not Collapse. Environmental Science & Technology, 2013, 47, 11915-11916.	4.6	17
33	Modeling the Influence of Parr Predation by Walleyes and Brown Trout on the Long-Term Population Dynamics of Chinook Salmon in Lake Michigan: A Stage Matrix Approach. Transactions of the American Fisheries Society, 2013, 142, 1101-1113.	0.6	5
34	Joint analysis of stressors and ecosystem services to enhance restoration effectiveness. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 372-377.	3.3	305
35	A Regionalâ€Scale Habitat Suitability Model to Assess the Effects of Flow Reduction on Fish Assemblages in Michigan Streams¹. Journal of the American Water Resources Association, 2012, 48, 871-895.	1.0	49
36	Impacts of Adfluvial Fish on the Ecology of Two Great Lakes Tributaries. Transactions of the American Fisheries Society, 2011, 140, 1670-1682.	0.6	17

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37	Spawning Habitat Unsuitability: An Impediment to Cisco Rehabilitation in Lake Michigan?. North American Journal of Fisheries Management, 2011, 31, 905-913.	0.5	18
38	Density, production, and survival of walleye (Sander vitreus) eggs in the Muskegon River, Michigan. Journal of Great Lakes Research, 2010, 36, 328-337.	0.8	18
39	Annual variation in habitat-specific recruitment success: implications from an individual-based model of Lake Michigan alewife (Alosa pseudoharengus). Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 1402-1412.	0.7	22
40	Seasonal Movements of Chinook Salmon in Lake Michigan Based on Tag Recoveries from Recreational Fisheries and Catch Rates in Gillâ€Net Assessments. Transactions of the American Fisheries Society, 2008, 137, 736-750.	0.6	27
41	River Restoration Effects on Steelhead Populations in the Manistee River, Michigan: Analysis Using an Individual-Based Model. Transactions of the American Fisheries Society, 2007, 136, 1654-1673.	0.6	11
42	Hatch Dates, Growth, Survival, and Overwinter Mortality of Ageâ€0 Alewives in Lake Michigan: Implications for Habitatâ€Specific Recruitment Success. Transactions of the American Fisheries Society, 2007, 136, 1298-1312.	0.6	44
43	Movement of Walleyes in Lakes Erie and St. Clair Inferred from Tag Return and Fisheries Data. Transactions of the American Fisheries Society, 2007, 136, 539-551.	0.6	77
44	Sampling a Littoral Fish Assemblage: Comparison of Smallâ€Mesh Fyke Netting and Boat Electrofishing. North American Journal of Fisheries Management, 2007, 27, 825-831.	0.5	76
45	Estimating Seasonal Movements of Chinook Salmon in Lake Huron from Efficiency Analysis of Coded Wire Tag Recoveries in Recreational Fisheries. North American Journal of Fisheries Management, 2007, 27, 792-803.	0.5	35
46	Diet, Feeding Rate, Growth, Mortality, and Production of Juvenile Steelhead in a Lake Michigan Tributary. North American Journal of Fisheries Management, 2007, 27, 578-592.	0.5	19
47	Lake Trout Movements in U.S. Waters of Lake Huron Interpreted from Coded Wire Tag Recoveries in Recreational Fisheries. Journal of Great Lakes Research, 2007, 33, 186-201.	0.8	21
48	Biophysical Model of Larval Yellow Perch Advection and Settlement in Lake Michigan. Journal of Great Lakes Research, 2007, 33, 842-866.	0.8	78
49	Classifying and Forecasting Coastal Upwellings in Lake Michigan Using Satellite Derived Temperature Images and Buoy Data. Journal of Great Lakes Research, 2006, 32, 63-76.	0.8	72
50	Short-term Water Mass Movements in Lake Michigan: Implications for Larval Fish Transport. Journal of Great Lakes Research, 2006, 32, 728.	0.8	35
51	Early life history of Lake Michigan alewives (Alosa pseudoharengus) inferred from intra-otolith stable isotope ratios. Canadian Journal of Fisheries and Aquatic Sciences, 2005, 62, 2362-2370.	0.7	44
52	Recruitment Variability of Alewives in Lake Michigan. Transactions of the American Fisheries Society, 2005, 134, 218-230.	0.6	79
53	Use of GIS-Derived Landscape-Scale Habitat Features to Explain Spatial Patterns of Fish Density in Michigan Rivers. North American Journal of Fisheries Management, 2005, 25, 1411-1425.	0.5	38
54	Simulating effects of hydro-dam alteration on thermal regime and wild steelhead recruitment in a stable-flow Lake Michigan tributary. River Research and Applications, 2004, 20, 185-203.	0.7	28

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55	Relationship between Surface Water Temperature and Steelhead Distributions in Lake Michigan. North American Journal of Fisheries Management, 2004, 24, 211-221.	0.5	20
56	Landscape Scale Measures of Steelhead (Oncorhynchus mykiss) Bioenergetic Growth Rate Potential in Lake Michigan and Comparison with Angler Catch Rates. Journal of Great Lakes Research, 2004, 30, 545-556.	0.8	8
57	Modeling the Transport of Larval Yellow Perch in Lake Michigan. , 2004, , 439.		6
58	Methodological Bias in Estimates of Strain Composition and Straying of Hatchery-Produced Steelhead in Lake Michigan Tributaries. North American Journal of Fisheries Management, 2004, 24, 1288-1299.	0.5	12
59	Spatially explicit measures of production of young alewives in Lake Michigan: Linkage between essential fish habitat and recruitment. Estuaries and Coasts, 2003, 26, 21-29.	1.7	11
60	Evaluation of the Shepherd and Cushing (1980) model of density-dependent survival: a case study using striped bass (Morone saxatilis) larvae in the Potomac River, Maryland, USA. ICES Journal of Marine Science, 2003, 60, 1275-1287.	1.2	7
61	Dynamics of the Lake Michigan food web, 1970Â–2000. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 736-753.	0.7	238
62	INDIVIDUAL-BASED MODEL OF YELLOW PERCH AND WALLEYE POPULATIONS IN ONEIDA LAKE. Ecological Monographs, 1999, 69, 127-154.	2.4	94