

Rita Adrian

List of Publications by Year in descending order

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84
papers

8,066
citations

76326

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54911

84
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docs citations

85
times ranked

7487
citing authors

#	ARTICLE	IF	CITATIONS
1	Antecedent lake conditions shape resistance and resilience of a shallow lake ecosystem following extreme wind storms. <i>Limnology and Oceanography</i> , 2022, 67, .	3.1	13
2	A global agenda for advancing freshwater biodiversity research. <i>Ecology Letters</i> , 2022, 25, 255-263.	6.4	95
3	Variation in the predictability of lake plankton metric types. <i>Limnology and Oceanography</i> , 2022, 67, 608-620.	3.1	7
4	Causal networks of phytoplankton diversity and biomass are modulated by environmental context. <i>Nature Communications</i> , 2022, 13, 1140.	12.8	18
5	Phytoplankton responses to repeated pulse perturbations imposed on a trend of increasing eutrophication. <i>Ecology and Evolution</i> , 2022, 12, e8675.	1.9	6
6	A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector. <i>Geoscientific Model Development</i> , 2022, 15, 4597-4623.	3.6	37
7	Long-term trends and seasonal variation in host density, temperature, and nutrients differentially affect chytrid fungi parasitising lake phytoplankton. <i>Freshwater Biology</i> , 2022, 67, 1532-1542.	2.4	7
8	The extent and variability of storm-induced temperature changes in lakes measured with long-term and high-frequency data. <i>Limnology and Oceanography</i> , 2021, 66, 1979-1992.	3.1	10
9	Climate change drives widespread shifts in lake thermal habitat. <i>Nature Climate Change</i> , 2021, 11, 521-529.	18.8	87
10	Earlier winter/spring runoff and snowmelt during warmer winters lead to lower summer chlorophyll <i>a</i> in north temperate lakes. <i>Global Change Biology</i> , 2021, 27, 4615-4629.	9.5	22
11	Phytoplankton and cyanobacteria abundances in mid-21st century lakes depend strongly on future land use and climate projections. <i>Global Change Biology</i> , 2021, 27, 6409-6422.	9.5	27
12	Early warning signals of regime shifts for aquatic systems: Can experiments help to bridge the gap between theory and real-world application?. <i>Ecological Complexity</i> , 2021, 47, 100944.	2.9	9
13	Quantifying phenological asynchrony of phyto- and zooplankton in response to changing temperature and nutrient conditions in Lake Müggelsee (Germany) by means of evolutionary computation. <i>Environmental Modelling and Software</i> , 2021, 146, 105224.	4.5	6
14	Meta-analysis of multidecadal biodiversity trends in Europe. <i>Nature Communications</i> , 2020, 11, 3486.	12.8	115
15	Performance of one-dimensional hydrodynamic lake models during short-term extreme weather events. <i>Environmental Modelling and Software</i> , 2020, 133, 104852.	4.5	21
16	Long-term warming destabilizes aquatic ecosystems through weakening biodiversity-mediated causal networks. <i>Global Change Biology</i> , 2020, 26, 6413-6423.	9.5	23
17	Worldwide lake level trends and responses to background climate variation. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2593-2608.	4.9	23
18	Storm impacts on phytoplankton community dynamics in lakes. <i>Global Change Biology</i> , 2020, 26, 2756-2784.	9.5	144

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19	Long-term population dynamics of dreissenid mussels (<i>Dreissena polymorpha</i>) and <i>Tj</i> ETQq1 1 0.784314 rgBT /Overlock 10 TFS	2.2	51
20	The importance of nonrandom and random trait patterns in phytoplankton communities: a case study from Lake Müggelsee, Germany. <i>Theoretical Ecology</i> , 2019, 12, 501-512.	1.0	2
21	Disentangling limnological processes in the time-frequency domain. <i>Limnology and Oceanography</i> , 2019, 64, 423-440.	3.1	8
22	Effects of trophic status, water level, and temperature on shallow lake metabolism and metabolic balance: A standardized pan-European mesocosm experiment. <i>Limnology and Oceanography</i> , 2019, 64, 616-631.	3.1	23
23	Temporal and spatial scales of water temperature variability as an indicator for mixing in a polymictic lake. <i>Inland Waters</i> , 2018, 8, 82-95.	2.2	11
24	A multi-lake comparative analysis of the General Lake Model (GLM): Stress-testing across a global observatory network. <i>Environmental Modelling and Software</i> , 2018, 102, 274-291.	4.5	93
25	Wind and trophic status explain within and among-lake variability of algal biomass. <i>Limnology and Oceanography Letters</i> , 2018, 3, 409-418.	3.9	24
26	Effects of nutrient and water level changes on the composition and size structure of zooplankton communities in shallow lakes under different climatic conditions: a pan-European mesocosm experiment. <i>Aquatic Ecology</i> , 2017, 51, 257-273.	1.5	23
27	Warming trends of perialpine lakes from homogenised time series of historical satellite and in-situ data. <i>Science of the Total Environment</i> , 2017, 578, 417-426.	8.0	51
28	Ecological resilience in lakes and the conjunction fallacy. <i>Nature Ecology and Evolution</i> , 2017, 1, 1616-1624.	7.8	52
29	Reconciling the opposing effects of warming on phytoplankton biomass in 188 large lakes. <i>Scientific Reports</i> , 2017, 7, 10762.	3.3	73
30	Ecology under lake ice. <i>Ecology Letters</i> , 2017, 20, 98-111.	6.4	320
31	New Automated Method to Develop Geometrically Corrected Time Series of Brightness Temperatures from Historical AVHRR LAC Data. <i>Remote Sensing</i> , 2016, 8, 169.	4.0	11
32	Global impacts of the 1980s regime shift. <i>Global Change Biology</i> , 2016, 22, 682-703.	9.5	225
33	Winter severity determines functional trait composition of phytoplankton in seasonally ice-covered lakes. <i>Global Change Biology</i> , 2016, 22, 284-298.	9.5	50
34	Evaluating early-warning indicators of critical transitions in natural aquatic ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8089-E8095.	7.1	101
35	Using dynamic factor analysis to show how sampling resolution and data gaps affect the recognition of patterns in limnological time series. <i>Inland Waters</i> , 2016, 6, 284-294.	2.2	8
36	Homogenised daily lake surface water temperature data generated from multiple satellite sensors: A long-term case study of a large sub-Alpine lake. <i>Scientific Reports</i> , 2016, 6, 31251.	3.3	35

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37	Quantifying change in pelagic plankton network stability and topology based on empirical long-term data. <i>Ecological Indicators</i> , 2016, 65, 76-88.	6.3	25
38	Ecological Instability in Lakes: A Predictable Condition?. <i>Environmental Science & Technology</i> , 2016, 50, 3285-3286.	10.0	10
39	Environmental Impacts of Lake Ecosystems. <i>Regional Climate Studies</i> , 2016, , 315-340.	1.2	14
40	Rapid and highly variable warming of lake surface waters around the globe. <i>Geophysical Research Letters</i> , 2015, 42, 10,773.	4.0	767
41	Experimental comparison of periphyton removal by chironomid larvae and <i>Daphnia magna</i> . <i>Inland Waters</i> , 2015, 5, 81-88.	2.2	9
42	Effects of water temperature on summer periphyton biomass in shallow lakes: a pan-European mesocosm experiment. <i>Aquatic Sciences</i> , 2015, 77, 499-510.	1.5	34
43	Tube-dwelling invertebrates: tiny ecosystem engineers have large effects in lake ecosystems. <i>Ecological Monographs</i> , 2015, 85, 333-351.	5.4	122
44	Climate change effects on shallow lakes: design and preliminary results of a cross-European climate gradient mesocosm experiment. <i>Estonian Journal of Ecology</i> , 2014, 63, 71.	0.5	30
45	Synchronous dynamics of zooplankton competitors prevail in temperate lake ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140633.	2.6	50
46	Improving the precision of lake ecosystem metabolism estimates by identifying predictors of model uncertainty. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 303-312.	2.0	23
47	Clear, crashing, turbid and back long-term changes in macrophyte assemblages in a shallow lake. <i>Freshwater Biology</i> , 2013, 58, 2027-2036.	2.4	62
48	Ecosystem respiration: Drivers of daily variability and background respiration in lakes around the globe. <i>Limnology and Oceanography</i> , 2013, 58, 849-866.	3.1	195
49	Threshold-driven shifts in two copepod species: Testing ecological theory with observational data. <i>Limnology and Oceanography</i> , 2013, 58, 741-752.	3.1	6
50	Beyond the Plankton Ecology Group (PEG) Model: Mechanisms Driving Plankton Succession. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2012, 43, 429-448.	8.3	604
51	To bloom or not to bloom: contrasting responses of cyanobacteria to recent heat waves explained by critical thresholds of abiotic drivers. <i>Oecologia</i> , 2012, 169, 245-256.	2.0	127
52	Consequences of changes in thermal regime for plankton diversity and trait composition in a polymictic lake: a matter of temporal scale. <i>Freshwater Biology</i> , 2011, 56, 1949-1961.	2.4	53
53	A matter of timing: heat wave impact on crustacean zooplankton. <i>Freshwater Biology</i> , 2010, 55, 1769-1779.	2.4	29
54	Environmental stability and lake zooplankton diversity – contrasting effects of chemical and thermal variability. <i>Ecology Letters</i> , 2010, 13, 453-463.	6.4	123

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55	Lakes as sentinels of climate change. <i>Limnology and Oceanography</i> , 2009, 54, 2283-2297.	3.1	1,314
56	Exploring lake ecosystems: hierarchy responses to long-term change?. <i>Global Change Biology</i> , 2009, 15, 1104-1115.	9.5	50
57	Cyanobacteria dominance: Quantifying the effects of climate change. <i>Limnology and Oceanography</i> , 2009, 54, 2460-2468.	3.1	331
58	Impact of summer warming on the thermal characteristics of a polymictic lake and consequences for oxygen, nutrients and phytoplankton. <i>Freshwater Biology</i> , 2008, 53, 226-237.	2.4	111
59	Phytoplankton response to climate warming modified by trophic state. <i>Limnology and Oceanography</i> , 2008, 53, 1-13.	3.1	105
60	Nitrate-depleted conditions on the increase in shallow northern European lakes. <i>Limnology and Oceanography</i> , 2007, 52, 1346-1353.	3.1	61
61	A biochemical explanation for the success of mixotrophy in the flagellate <i>Ochromonas</i> sp.. <i>Limnology and Oceanography</i> , 2007, 52, 1624-1632.	3.1	37
62	Large-scale climatic signatures in lakes across Europe: a meta-analysis. <i>Global Change Biology</i> , 2007, 13, 1314-1326.	9.5	209
63	Sterol Composition of Freshwater Algalivorous Ciliates Does Not Resemble Dietary Composition. <i>Microbial Ecology</i> , 2007, 53, 74-81.	2.8	12
64	Long-term response of <i>Dreissena polymorpha</i> larvae to physical and biological forcing in a shallow lake. <i>Oecologia</i> , 2007, 151, 104-114.	2.0	25
65	Long-term response of daily epilimnetic temperature extrema to climate forcing. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 2467-2477.	1.4	33
66	Life-history traits of lake plankton species may govern their phenological response to climate warming. <i>Global Change Biology</i> , 2006, 12, 652-661.	9.5	225
67	Evidence for biochemical limitation of population growth and reproduction of the rotifer <i>Keratella quadrata</i> fed with freshwater protists. <i>Journal of Plankton Research</i> , 2006, 28, 1027-1038.	1.8	24
68	Long-term response of a shallow, moderately flushed lake to reduced external phosphorus and nitrogen loading. <i>Freshwater Biology</i> , 2005, 50, 1639-1650.	2.4	138
69	Biochemical composition of algivorous freshwater ciliates: You are not what you eat. <i>FEMS Microbiology Ecology</i> , 2005, 53, 393-400.	2.7	38
70	Supplementation of the protist <i>Chilomonas paramecium</i> with a highly unsaturated fatty acid enhances its nutritional quality for the rotifer <i>Keratella quadrata</i> . <i>Journal of Plankton Research</i> , 2005, 27, 663-670.	1.8	8
71	Effects of Climate Warming, North Atlantic Oscillation, and El Niño-Southern Oscillation on Thermal Conditions and Plankton Dynamics in Northern Hemispheric Lakes. <i>Scientific World Journal</i> , The, 2002, 2, 586-606.	2.1	94
72	Reproductive success of the rotifer <i>Brachionus calyciflorus</i> feeding on ciliates and flagellates of different trophic modes. <i>Freshwater Biology</i> , 2002, 47, 1832-1839.	2.4	22

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73	Species-specific changes in the phenology and peak abundance of freshwater copepods in response to warm summers. <i>Freshwater Biology</i> , 2002, 47, 2163-2173.	2.4	70
74	Differences in the persistency of the North Atlantic Oscillation signal among lakes. <i>Limnology and Oceanography</i> , 2001, 46, 448-455.	3.1	130
75	Trophic interactions between zooplankton and the microbial community in contrasting food webs: the epilimnion and deep chlorophyll maximum of a mesotrophic lake. <i>Aquatic Microbial Ecology</i> , 2001, 24, 83-97.	1.8	44
76	Functional responses of the rotifers <i>Brachionus calyciflorus</i> and <i>Brachionus rubens</i> feeding on armored and unarmored ciliates. <i>Limnology and Oceanography</i> , 2000, 45, 1175-1179.	3.1	34
77	The North Atlantic Oscillation and plankton dynamics in two European lakes -- two variations on a general theme. <i>Global Change Biology</i> , 2000, 6, 663-670.	9.5	142
78	Climate-driven changes in spring plankton dynamics and the sensitivity of shallow polymictic lakes to the North Atlantic Oscillation. <i>Limnology and Oceanography</i> , 2000, 45, 1058-1066.	3.1	243
79	Top-down effects of crustacean zooplankton on pelagic microorganisms in a mesotrophic lake. <i>Journal of Plankton Research</i> , 1999, 21, 2175-2190.	1.8	82
80	Effects of ice duration on plankton succession during spring in a shallow polymictic lake. <i>Freshwater Biology</i> , 1999, 41, 621-634.	2.4	161
81	Calanoid-cyclopoid interactions: evidence from an 11-year field study in a eutrophic lake. <i>Freshwater Biology</i> , 1997, 38, 315-325.	2.4	35
82	Possible impact of mild winters on zooplankton succession in eutrophic lakes of the Atlantic European area. <i>Freshwater Biology</i> , 1996, 36, 757-770.	2.4	54
83	Omnivory in cyclopoid copepods: comparisons of algae and invertebrates as food for three, differently sized species. <i>Journal of Plankton Research</i> , 1993, 15, 643-658.	1.8	82
84	Comparative feeding ecology of <i>Tropocyclops prasinus mexicanus</i> (Copepoda, Cyclopoida). <i>Journal of Plankton Research</i> , 1992, 14, 1369-1382.	1.8	38