

Laurence Carvalho

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

6,770
citations

43
h-index

82
g-index

97
ext. papers

7,928
ext. citations

6
avg, IF

5.25
L-index

#	Paper	IF	Citations
94	Lake responses to reduced nutrient loading: An analysis of contemporary long-term data from 35 case studies. <i>Freshwater Biology</i> , 2005 , 50, 1747-1771	3.1	868
93	The European Water Framework Directive at the age of 10: a critical review of the achievements with recommendations for the future. <i>Science of the Total Environment</i> , 2010 , 408, 4007-19	10.2	631
92	Trophic level asynchrony in rates of phenological change for marine, freshwater and terrestrial environments. <i>Global Change Biology</i> , 2010 , 16, 3304-3313	11.4	567
91	Phenological sensitivity to climate across taxa and trophic levels. <i>Nature</i> , 2016 , 535, 241-5	50.4	483
90	Managing aquatic ecosystems and water resources under multiple stress--an introduction to the MARS project. <i>Science of the Total Environment</i> , 2015 , 503-504, 10-21	10.2	187
89	Protecting and restoring Europe's waters: An analysis of the future development needs of the Water Framework Directive. <i>Science of the Total Environment</i> , 2019 , 658, 1228-1238	10.2	176
88	Chlorophyll:nutrient relationships of different lake types using a large European dataset. <i>Aquatic Ecology</i> , 2008 , 42, 213-226	1.9	171
87	Diatoms 2002 , 155-202		157
86	Hyperspectral remote sensing of cyanobacterial pigments as indicators for cell populations and toxins in eutrophic lakes. <i>Remote Sensing of Environment</i> , 2010 , 114, 2705-2718	13.2	143
85	Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1060-1068	12.3	126
84	Sustaining recreational quality of European lakes: minimizing the health risks from algal blooms through phosphorus control. <i>Journal of Applied Ecology</i> , 2013 , 50, 315-323	5.8	123
83	Ecological status assessment of European lakes: a comparison of metrics for phytoplankton, macrophytes, benthic invertebrates and fish. <i>Hydrobiologia</i> , 2013 , 704, 57-74	2.4	97
82	Institutional challenges in putting ecosystem service knowledge in practice. <i>Ecosystem Services</i> , 2018 , 29, 579-598	6.1	89
81	Strength and uncertainty of phytoplankton metrics for assessing eutrophication impacts in lakes. <i>Hydrobiologia</i> , 2013 , 704, 127-140	2.4	88
80	Determination of phytoplankton crops by top-down and bottom-up mechanisms in a group of English lakes, the West Midland meres. <i>Limnology and Oceanography</i> , 1994 , 39, 1020-1029	4.8	82
79	Interaction of Climate Change and Eutrophication 2010 , 119-151		80
78	Quantitative responses of lake phytoplankton to eutrophication in Northern Europe. <i>Aquatic Ecology</i> , 2008 , 42, 227-236	1.9	78

77	A carbon- and oxygen-isotope record of recent environmental change from Qinghai Lake, NE Tibetan Plateau. <i>Science Bulletin</i> , 2003 , 48, 1463		76
76	A hitchhiker's guide to European lake ecological assessment and intercalibration. <i>Ecological Indicators</i> , 2015 , 52, 533-544	5.8	74
75	Changes in shallow lake functioning: response to climate change and nutrient reduction. <i>Hydrobiologia</i> , 2003 , 506-509, 789-796	2.4	74
74	Cyanobacterial blooms: statistical models describing risk factors for national-scale lake assessment and lake management. <i>Science of the Total Environment</i> , 2011 , 409, 5353-8	10.2	73
73	Sediment phosphorus cycling in a large shallow lake: spatio-temporal variation in phosphorus pools and release. <i>Hydrobiologia</i> , 2007 , 584, 37-48	2.4	73
72	A phytoplankton trophic index to assess the status of lakes for the Water Framework Directive. <i>Hydrobiologia</i> , 2013 , 704, 75-95	2.4	72
71	Stakeholders' perspectives on the operationalisation of the ecosystem service concept: Results from 27 case studies. <i>Ecosystem Services</i> , 2018 , 29, 552-565	6.1	71
70	Long-term variation and regulation of internal phosphorus loading in Loch Leven. <i>Hydrobiologia</i> , 2012 , 681, 23-33	2.4	71
69	Do early warning indicators consistently predict nonlinear change in long-term ecological data?. <i>Journal of Applied Ecology</i> , 2016 , 53, 666-676	5.8	71
68	Effects of light on sediment nutrient flux and water column nutrient stoichiometry in a shallow lake. <i>Water Research</i> , 2008 , 42, 977-86	12.5	69
67	Chlorophyll reference conditions for European lake types used for intercalibration of ecological status. <i>Aquatic Ecology</i> , 2008 , 42, 203-211	1.9	68
66	Consequences of reduced nutrient loading on a lake system in a lowland catchment: deviations from the norm?. <i>Freshwater Biology</i> , 2005 , 50, 1687-1705	3.1	66
65	Storm impacts on phytoplankton community dynamics in lakes. <i>Global Change Biology</i> , 2020 , 26, 2756-2784	11.4	63
64	Phosphorus reference concentrations in European lakes. <i>Hydrobiologia</i> , 2007 , 584, 3-12	2.4	63
63	Climate Change and the Future of Freshwater Biodiversity in Europe: A Primer for Policy-Makers. <i>Freshwater Reviews: A Journal of the Freshwater Biological Association</i> , 2009 , 2, 103-130		62
62	Ecological threshold responses in European lakes and their applicability for the Water Framework Directive (WFD) implementation: synthesis of lakes results from the REBECCA project. <i>Aquatic Ecology</i> , 2008 , 42, 317-334	1.9	60
61	A tiered risk-based approach for predicting diffuse and point source phosphorus losses in agricultural areas. <i>Science of the Total Environment</i> , 2005 , 344, 225-39	10.2	57
60	Effects of multiple stressors on cyanobacteria abundance vary with lake type. <i>Global Change Biology</i> , 2018 , 24, 5044-5055	11.4	56

59	Identifying multiple stressor controls on phytoplankton dynamics in the River Thames (UK) using high-frequency water quality data. <i>Science of the Total Environment</i> , 2016 , 569-570, 1489-1499	10.2	54
58	Water quality of Loch Leven: responses to enrichment, restoration and climate change. <i>Hydrobiologia</i> , 2012 , 681, 35-47	2.4	53
57	Practical application of spatial ecosystem service models to aid decision support. <i>Ecosystem Services</i> , 2018 , 29, 465-480	6.1	53
56	Assessment and recovery of European water bodies: key messages from the WISER project. <i>Hydrobiologia</i> , 2013 , 704, 1-9	2.4	52
55	Integrating methods for ecosystem service assessment: Experiences from real world situations. <i>Ecosystem Services</i> , 2018 , 29, 499-514	6.1	51
54	Assessing ecological responses to environmental change using statistical models. <i>Journal of Applied Ecology</i> , 2007 , 45, 193-203	5.8	50
53	Defining ecologically relevant water quality targets for lakes in Europe. <i>Journal of Applied Ecology</i> , 2014 , 51, 592-602	5.8	45
52	Assessing aquatic macrophyte community change through the integration of palaeolimnological and historical data at Loch Leven, Scotland. <i>Journal of Paleolimnology</i> , 2010 , 43, 191-204	2.1	45
51	Ecosystem services for water policy: Insights across Europe. <i>Environmental Science and Policy</i> , 2016 , 66, 179-190	6.2	43
50	Response of cyanobacteria and phytoplankton abundance to warming, extreme rainfall events and nutrient enrichment. <i>Global Change Biology</i> , 2019 , 25, 3365-3380	11.4	42
49	Phosphorus partitioning in a shallow lake: implications for water quality management. <i>Water and Environment Journal</i> , 2007 , 21, 47-53	1.7	41
48	The effect of risk perception on public preferences and willingness to pay for reductions in the health risks posed by toxic cyanobacterial blooms. <i>Science of the Total Environment</i> , 2012 , 426, 32-44	10.2	40
47	Spatial and historical variation in sediment phosphorus fractions and mobility in a shallow lake. <i>Water Research</i> , 2006 , 40, 383-91	12.5	40
46	(Dis)integrated valuation [Assessing the information gaps in ecosystem service appraisals for governance support. <i>Ecosystem Services</i> , 2018 , 29, 529-541	6.1	40
45	The current status of a sample of english sites of special scientific interest subject to eutrophication. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1995 , 5, 191-204	2.6	39
44	Changes in a deep lake following sewage diversion [a challenge to the orthodoxy of external phosphorus control as a restoration strategy?]. <i>Freshwater Biology</i> , 1995 , 34, 399-410	3.1	38
43	Vertically-challenged limnology; contrasts between deep and shallow lakes. <i>Hydrobiologia</i> , 1997 , 342/343, 257-267	2.4	37
42	Quantifying uncertainties in biologically-based water quality assessment: A pan-European analysis of lake phytoplankton community metrics. <i>Ecological Indicators</i> , 2013 , 29, 34-47	5.8	34

41	Water colour, phosphorus and alkalinity are the major determinants of the dominant phytoplankton species in European lakes. <i>Hydrobiologia</i> , 2013 , 704, 115-126	2.4	34
40	Identifying from recent sediment records the effects of nutrients and climate on diatom dynamics in Loch Leven. <i>Freshwater Biology</i> , 2012 , 57, 2015-2029	3.1	33
39	Ecological resilience in lakes and the conjunction fallacy. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1616-1624.	4.3	31
38	Knowledge needs for the operationalisation of the concept of ecosystem services. <i>Ecosystem Services</i> , 2018 , 29, 441-451	6.1	31
37	FORUM: Effective management of ecological resilience – are we there yet?. <i>Journal of Applied Ecology</i> , 2015 , 52, 1311-1315	5.8	31
36	Maximum growing depth of macrophytes in Loch Leven, Scotland, United Kingdom, in relation to historical changes in estimated phosphorus loading. <i>Hydrobiologia</i> , 2010 , 646, 123-131	2.4	30
35	Spatial and seasonal fluxes of the greenhouse gases N ₂ O, CO ₂ and CH ₄ in a UK macrotidal estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2015 , 153, 62-73	2.9	29
34	Operationalising ecosystem service assessment in Bayesian Belief Networks: Experiences within the OpenNESS project. <i>Ecosystem Services</i> , 2018 , 29, 452-464	6.1	29
33	Top-down control of phytoplankton in a shallow hypertrophic lake: Little Mere (England). <i>Hydrobiologia</i> , 1994 , 275-276, 53-63	2.4	28
32	Nitrogen and phosphorus limitation and the management of small productive lakes. <i>Inland Waters</i> , 2020 , 10, 159-172	2.4	27
31	Variation in chlorophyll a to total phosphorus ratio across 94 UK and Irish lakes: implications for lake management. <i>Journal of Environmental Management</i> , 2013 , 115, 287-94	7.9	26
30	Changes in aquatic macrophyte communities in Loch Leven: evidence of recovery from eutrophication?. <i>Hydrobiologia</i> , 2012 , 681, 49-57	2.4	24
29	Site-specific chlorophyll reference conditions for lakes in Northern and Western Europe. <i>Hydrobiologia</i> , 2009 , 633, 59-66	2.4	22
28	An evaluation of methods for sampling macrophyte maximum colonisation depth in Loch Leven, Scotland. <i>Aquatic Botany</i> , 2009 , 91, 75-81	1.8	22
27	The lake at Llandrindod Wells – restoration comedy?. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2002 , 12, 229-245	2.6	22
26	Assessing the condition of lake habitats: a test of methods for surveying aquatic macrophyte communities. <i>Hydrobiologia</i> , 2010 , 656, 87-97	2.4	20
25	Strategies for monitoring and managing mass populations of toxic cyanobacteria in recreational waters: a multi-interdisciplinary approach. <i>Environmental Health</i> , 2009 , 8 Suppl 1, S11	6	19
24	Model comparison for a complex ecological system. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2007 , 170, 691-711	2.1	19

23	Rapid recovery of a shallow hypertrophic lake following sewage effluent diversion: lack of chemical resilience. <i>Hydrobiologia</i> , 1999 , 412, 5-15	2.4	18
22	Capacity challenges in water quality monitoring: understanding the role of human development. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 298	3.1	16
21	Invasion of freshwater ecosystems is promoted by network connectivity to hotspots of human activity. <i>Global Ecology and Biogeography</i> , 2020 , 29, 645-655	6.1	12
20	Phytoplankton community responses in a shallow lake following lanthanum-bentonite application. <i>Water Research</i> , 2016 , 97, 55-68	12.5	11
19	Multivariate varying-coefficient models for an ecological system. <i>Environmetrics</i> , 2009 , 20, 460-476	1.3	10
18	Making waves. Bridging theory and practice towards multiple stressor management in freshwater ecosystems. <i>Water Research</i> , 2021 , 196, 116981	12.5	9
17	Ecological Instability in Lakes: A Predictable Condition?. <i>Environmental Science & Technology</i> , 2016 , 50, 3285-6	10.3	8
16	A model-based assessment of non-compliance of phosphorus standards for lakes in England and Wales. <i>International Journal of River Basin Management</i> , 2009 , 7, 197-207	1.7	7
15	Climate sensitivity of Oak Mere: a low altitude acid lake. <i>Freshwater Biology</i> , 1999 , 42, 585-591	3.1	6
14	Integrating Inland and Coastal Water Quality Data for Actionable Knowledge. <i>Remote Sensing</i> , 2021 , 13, 2899	5	6
13	Intracellular Versus Extracellular Iron Accumulation in Freshwater Periphytic Mats Across a Mine Water Treatment Lagoon. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 1519-1530	2.6	5
12	Rare charophytes in Scotland's coastal saline lagoons. <i>Botanical Journal of Scotland</i> , 2002 , 54, 23-35		5
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	11.4	4
10	The contribution of epipelton to total sediment microalgae in a shallow temperate eutrophic loch (Loch Leven, Scotland). <i>Hydrobiologia</i> , 2010 , 646, 281-293	2.4	3
9	Ecological health and water quality of village ponds in the subtropics limiting their use for water supply and groundwater recharge. <i>Journal of Environmental Management</i> , 2021 , 277, 111450	7.9	3
8	Vertically-challenged limnology; contrasts between deep and shallow lakes 1997 , 257-267		2
7	Assessing multiple stressor effects to inform climate change management responses in three European catchments. <i>Inland Waters</i> , 1-13	2.4	2
6	Greenhouse gas budgets of severely polluted urban lakes in India. <i>Science of the Total Environment</i> , 2021 , 798, 149019	10.2	2

- 5 Sediment phosphorus cycling in a large shallow lake: spatio-temporal variation in phosphorus pools and release **2007**, 37-48 2
- 4 Short-term rainfall limits cyanobacterial bloom formation in a shallow eutrophic subtropical urban reservoir in warm season.. *Science of the Total Environment*, **2022**, 154172 10.2 0
- 3 Brian Moss: the wizard of shallow lakes. *Inland Waters*, **2020**, 10, 153-158 2.4
- 2 Lagoonal charophyte conservation: a palaeoecological approach. *Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology*, **2000**, 27, 884-886
- 1 Ecological Restoration **2021**, 245-269