Laurence Carvalho

List of Publications by Year in Descending Order

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	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
93	Making waves. Bridging theory and practice towards multiple stressor management in freshwater ecosystems. *Water Research*, **2021**, 196, 116981	12.5	9
92	Ecological Restoration **2021**, 245-269		
91	Ecological health and water quality of village ponds in the subtropics limiting their use for water supply and groundwater recharge. *Journal of Environmental Management*, **2021**, 277, 111450	7.9	3
90	Integrating Inland and Coastal Water Quality Data for Actionable Knowledge. *Remote Sensing*, **2021**, 13, 2899	5	6
89	Phytoplankton and cyanobacteria abundances in mid-21st century lakes depend strongly on future land use and climate projections. *Global Change Biology*, **2021**, 27, 6409-6422	11.4	4
88	Greenhouse gas budgets of severely polluted urban lakes in India. *Science of the Total Environment*, **2021**, 798, 149019	10.2	2
87	Brian Moss: the wizard of shallow lakes. *Inland Waters*, **2020**, 10, 153-158	2.4	
86	Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems. *Nature Ecology and Evolution*, **2020**, 4, 1060-1068	12.3	126
85	Storm impacts on phytoplankton community dynamics in lakes. *Global Change Biology*, **2020**, 26, 2756-2784	8.4	63
84	Nitrogen and phosphorus limitation and the management of small productive lakes. *Inland Waters*, **2020**, 10, 159-172	2.4	27
83	Capacity challenges in water quality monitoring: understanding the role of human development. *Environmental Monitoring and Assessment*, **2020**, 192, 298	3.1	16
82	Invasion of freshwater ecosystems is promoted by network connectivity to hotspots of human activity. *Global Ecology and Biogeography*, **2020**, 29, 645-655	6.1	12
81	Response of cyanobacteria and phytoplankton abundance to warming, extreme rainfall events and nutrient enrichment. *Global Change Biology*, **2019**, 25, 3365-3380	11.4	42
80	Protecting and restoring Europe's waters: An analysis of the future development needs of the Water Framework Directive. *Science of the Total Environment*, **2019**, 658, 1228-1238	10.2	176
79	Knowledge needs for the operationalisation of the concept of ecosystem services. *Ecosystem Services*, **2018**, 29, 441-451	6.1	31
78	Stakeholders perspectives on the operationalisation of the ecosystem service concept: Results from 27 case studies. *Ecosystem Services*, **2018**, 29, 552-565	6.1	71

77	Institutional challenges in putting ecosystem service knowledge in practice. *Ecosystem Services*, **2018**, 29, 579-598	6.1	89
76	Effects of multiple stressors on cyanobacteria abundance vary with lake type. *Global Change Biology*, **2018**, 24, 5044-5055	11.4	56
75	Operationalising ecosystem service assessment in Bayesian Belief Networks: Experiences within the OpenNESS project. *Ecosystem Services*, **2018**, 29, 452-464	6.1	29
74	Practical application of spatial ecosystem service models to aid decision support. *Ecosystem Services*, **2018**, 29, 465-480	6.1	53
73	(Dis) integrated valuation Assessing the information gaps in ecosystem service appraisals for governance support. *Ecosystem Services*, **2018**, 29, 529-541	6.1	40
72	Integrating methods for ecosystem service assessment: Experiences from real world situations. *Ecosystem Services*, **2018**, 29, 499-514	6.1	51
71	Ecological resilience in lakes and the conjunction fallacy. *Nature Ecology and Evolution*, **2017**, 1, 1616-1624	12.3	31
70	Phytoplankton community responses in a shallow lake following lanthanum-bentonite application. *Water Research*, **2016**, 97, 55-68	12.5	11
69	Phenological sensitivity to climate across taxa and trophic levels. *Nature*, **2016**, 535, 241-5	50.4	483
68	Ecological Instability in Lakes: A Predictable Condition?. *Environmental Science & Technology*, **2016**, 50, 3285-6	10.3	8
67	Do early warning indicators consistently predict nonlinear change in long-term ecological data?. *Journal of Applied Ecology*, **2016**, 53, 666-676	5.8	71
66	Ecosystem services for water policy: Insights across Europe. *Environmental Science and Policy*, **2016**, 66, 179-190	6.2	43
65	Identifying multiple stressor controls on phytoplankton dynamics in the River Thames (UK) using high-frequency water quality data. *Science of the Total Environment*, **2016**, 569-570, 1489-1499	10.2	54
64	A hitchhiker's guide to European lake ecological assessment and intercalibration. *Ecological Indicators*, **2015**, 52, 533-544	5.8	74
63	Spatial and seasonal fluxes of the greenhouse gases N2O, CO2 and CH4 in a UK macrotidal estuary. *Estuarine, Coastal and Shelf Science*, **2015**, 153, 62-73	2.9	29
62	Managing aquatic ecosystems and water resources under multiple stress--an introduction to the MARS project. *Science of the Total Environment*, **2015**, 503-504, 10-21	10.2	187
61	FORUM: Effective management of ecological resilience are we there yet?. *Journal of Applied Ecology*, **2015**, 52, 1311-1315	5.8	31
60	Defining ecologically relevant water quality targets for lakes in Europe. *Journal of Applied Ecology*, **2014**, 51, 592-602	5.8	45

59	Variation in chlorophyll a to total phosphorus ratio across 94 UK and Irish lakes: implications for lake management. *Journal of Environmental Management*, **2013**, 115, 287-94	7.9	26
58	Quantifying uncertainties in biologically-based water quality assessment: A pan-European analysis of lake phytoplankton community metrics. *Ecological Indicators*, **2013**, 29, 34-47	5.8	34
57	Assessment and recovery of European water bodies: key messages from the WISER project. *Hydrobiologia*, **2013**, 704, 1-9	2.4	52
56	A phytoplankton trophic index to assess the status of lakes for the Water Framework Directive. *Hydrobiologia*, **2013**, 704, 75-95	2.4	72
55	Water colour, phosphorus and alkalinity are the major determinants of the dominant phytoplankton species in European lakes. *Hydrobiologia*, **2013**, 704, 115-126	2.4	34
54	Strength and uncertainty of phytoplankton metrics for assessing eutrophication impacts in lakes. *Hydrobiologia*, **2013**, 704, 127-140	2.4	88
53	Ecological status assessment of European lakes: a comparison of metrics for phytoplankton, macrophytes, benthic invertebrates and fish. *Hydrobiologia*, **2013**, 704, 57-74	2.4	97
52	Sustaining recreational quality of European lakes: minimizing the health risks from algal blooms through phosphorus control. *Journal of Applied Ecology*, **2013**, 50, 315-323	5.8	123
51	The effect of risk perception on public preferences and willingness to pay for reductions in the health risks posed by toxic cyanobacterial blooms. *Science of the Total Environment*, **2012**, 426, 32-44	10.2	40
50	Long-term variation and regulation of internal phosphorus loading in Loch Leven. *Hydrobiologia*, **2012**, 681, 23-33	2.4	71
49	Water quality of Loch Leven: responses to enrichment, restoration and climate change. *Hydrobiologia*, **2012**, 681, 35-47	2.4	53
48	Changes in aquatic macrophyte communities in Loch Leven: evidence of recovery from eutrophication?. *Hydrobiologia*, **2012**, 681, 49-57	2.4	24
47	Intracellular Versus Extracellular Iron Accumulation in Freshwater Periphytic Mats Across a Mine Water Treatment Lagoon. *Water, Air, and Soil Pollution*, **2012**, 223, 1519-1530	2.6	5
46	Identifying from recent sediment records the effects of nutrients and climate on diatom dynamics in Loch Leven. *Freshwater Biology*, **2012**, 57, 2015-2029	3.1	33
45	Cyanobacterial blooms: statistical models describing risk factors for national-scale lake assessment and lake management. *Science of the Total Environment*, **2011**, 409, 5353-8	10.2	73
44	Trophic level asynchrony in rates of phenological change for marine, freshwater and terrestrial environments. *Global Change Biology*, **2010**, 16, 3304-3313	11.4	567
43	Interaction of Climate Change and Eutrophication **2010**, 119-151		80
42	Assessing aquatic macrophyte community change through the integration of palaeolimnological and historical data at Loch Leven, Scotland. *Journal of Paleolimnology*, **2010**, 43, 191-204	2.1	45

41	Maximum growing depth of macrophytes in Loch Leven, Scotland, United Kingdom, in relation to historical changes in estimated phosphorus loading. *Hydrobiologia*, **2010**, 646, 123-131	2.4	30
40	The contribution of epipelon to total sediment microalgae in a shallow temperate eutrophic loch (Loch Leven, Scotland). *Hydrobiologia*, **2010**, 646, 281-293	2.4	3
39	Assessing the condition of lake habitats: a test of methods for surveying aquatic macrophyte communities. *Hydrobiologia*, **2010**, 656, 87-97	2.4	20
38	The European Water Framework Directive at the age of 10: a critical review of the achievements with recommendations for the future. *Science of the Total Environment*, **2010**, 408, 4007-19	10.2	631
37	Hyperspectral remote sensing of cyanobacterial pigments as indicators for cell populations and toxins in eutrophic lakes. *Remote Sensing of Environment*, **2010**, 114, 2705-2718	13.2	143
36	Multivariate varying-coefficient models for an ecological system. *Environmetrics*, **2009**, 20, 460-476	1.3	10
35	Site-specific chlorophyll reference conditions for lakes in Northern and Western Europe. *Hydrobiologia*, **2009**, 633, 59-66	2.4	22
34	A model-based assessment of non-compliance of phosphorus standards for lakes in England and Wales. *International Journal of River Basin Management*, **2009**, 7, 197-207	1.7	7
33	An evaluation of methods for sampling macrophyte maximum colonisation depth in Loch Leven, Scotland. *Aquatic Botany*, **2009**, 91, 75-81	1.8	22
32	Strategies for monitoring and managing mass populations of toxic cyanobacteria in recreational waters: a multi-interdisciplinary approach. *Environmental Health*, **2009**, 8 Suppl 1, S11	6	19
31	Climate Change and the Future of Freshwater Biodiversity in Europe: A Primer for Policy-Makers. *Freshwater Reviews: A Journal of the Freshwater Biological Association*, **2009**, 2, 103-130		62
30	Effects of light on sediment nutrient flux and water column nutrient stoichiometry in a shallow lake. *Water Research*, **2008**, 42, 977-86	12.5	69
29	Chlorophyll□utrient relationships of different lake types using a large European dataset. *Aquatic Ecology*, **2008**, 42, 213-226	1.9	171
28	Quantitative responses of lake phytoplankton to eutrophication in Northern Europe. *Aquatic Ecology*, **2008**, 42, 227-236	1.9	78
27	Ecological threshold responses in European lakes and their applicability for the Water Framework Directive (WFD) implementation: synthesis of lakes results from the REBECCA project. *Aquatic Ecology*, **2008**, 42, 317-334	1.9	60
26	Chlorophyll reference conditions for European lake types used for intercalibration of ecological status. *Aquatic Ecology*, **2008**, 42, 203-211	1.9	68
25	Model comparison for a complex ecological system. *Journal of the Royal Statistical Society Series A: Statistics in Society*, **2007**, 170, 691-711	2.1	19
24	Assessing ecological responses to environmental change using statistical models. *Journal of Applied Ecology*, **2007**, 45, 193-203	5.8	50

23	Phosphorus partitioning in a shallow lake: implications for water quality management. *Water and Environment Journal*, **2007**, 21, 47-53	1.7	41
22	Phosphorus reference concentrations in European lakes. *Hydrobiologia*, **2007**, 584, 3-12	2.4	63
21	Sediment phosphorus cycling in a large shallow lake: spatio-temporal variation in phosphorus pools and release. *Hydrobiologia*, **2007**, 584, 37-48	2.4	73
20	Sediment phosphorus cycling in a large shallow lake: spatio-temporal variation in phosphorus pools and release **2007**, 37-48		2
19	Spatial and historical variation in sediment phosphorus fractions and mobility in a shallow lake. *Water Research*, **2006**, 40, 383-91	12.5	40
18	Lake responses to reduced nutrient loading an analysis of contemporary long-term data from 35 case studies. *Freshwater Biology*, **2005**, 50, 1747-1771	3.1	868
17	Consequences of reduced nutrient loading on a lake system in a lowland catchment: deviations from the norm?. *Freshwater Biology*, **2005**, 50, 1687-1705	3.1	66
16	A tiered risk-based approach for predicting diffuse and point source phosphorus losses in agricultural areas. *Science of the Total Environment*, **2005**, 344, 225-39	10.2	57
15	Changes in shallow lake functioning: response to climate change and nutrient reduction. *Hydrobiologia*, **2003**, 506-509, 789-796	2.4	74
14	A carbon- and oxygen-isotope record of recent environmental change from Qinghai Lake, NE Tibetan Plateau. *Science Bulletin*, **2003**, 48, 1463		76
13	The lake at Llandrindod Wells restoration comedy?. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **2002**, 12, 229-245	2.6	22
12	Rare charophytes in Scotland's coastal saline lagoons. *Botanical Journal of Scotland*, **2002**, 54, 23-35		5
11	Diatoms **2002**, 155-202		157
10	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		
9	Climate sensitivity of Oak Mere: a low altitude acid lake. *Freshwater Biology*, **1999**, 42, 585-591	3.1	6
8	Rapid recovery of a shallow hypertrophic lake following sewage effluent diversion: lack of chemical resilience. *Hydrobiologia*, **1999**, 412, 5-15	2.4	18
7	Vertically-challenged limnology; contrasts between deep and shallow lakes. *Hydrobiologia*, **1997**, 342/343, 257-267	2.4	37
6	Vertically-challenged limnology; contrasts between deep and shallow lakes **1997**, 257-267		2

5	Changes in a deep lake following sewage diversion – a challenge to the orthodoxy of external phosphorus control as a restoration strategy?. *Freshwater Biology*, **1995**, 34, 399-410	3.1	38
4	The current status of a sample of english sites of special scientific interest subject to eutrophication. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **1995**, 5, 191-204	2.6	39
3	Top-down control of phytoplankton in a shallow hypertrophic lake: Little Mere (England). *Hydrobiologia*, **1994**, 275-276, 53-63	2.4	28
2	Determination of phytoplankton crops by top-down and bottom-up mechanisms in a group of English lakes, the West Midland meres. *Limnology and Oceanography*, **1994**, 39, 1020-1029	4.8	82
1	Assessing multiple stressor effects to inform climate change management responses in three European catchments. *Inland Waters*,1-13	2.4	2