Bryan M Spears

List of Publications by Year
in descending order

57 papers	4,249 citations	159358 30 h-index	143772 57 g-index
60 all docs	60 docs citations	60 times ranked	4782 citing authors

#	Article	IF	Citations
1	Landscape controls on riverine export of dissolved organic carbon from Great Britain. Biogeochemistry, 2023, 164, 163-184.	1.7	26
2	Assessing multiple stressor effects to inform climate change management responses in three European catchments. Inland Waters, 2022, 12, 94-106.	1.1	7
3	Lake management: is prevention better than cure?. Inland Waters, 2022, 12, 173-186.	1.1	12
4	Can reductions in water residence time be used to disrupt seasonal stratification and control internal loading in a eutrophic monomictic lake?. Journal of Environmental Management, 2022, 304, 114169.	3.8	13
5	Mustering the troops toward preventative management in lakes. Inland Waters, 2022, 12, 1-7.	1.1	2
6	Concerns about global phosphorus demand for lithium-iron-phosphate batteries in the light electric vehicle sector. Communications Materials, 2022, 3, .	2.9	12
7	Annual water residence time effects on thermal structure: A potential lake restoration measure?. Journal of Environmental Management, 2022, 314, 115082.	3.8	9
8	Global actions for a sustainable phosphorus future. Nature Food, 2021, 2, 71-74.	6.2	50
9	Making waves. Bridging theory and practice towards multiple stressor management in freshwater ecosystems. Water Research, 2021, 196, 116981.	5.3	32
10	Contrasting Estuarine Processing of Dissolved Organic Matter Derived From Natural and Humanâ€Impacted Landscapes. Global Biogeochemical Cycles, 2021, 35, e2021GB007023.	1.9	12
11	Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems. Nature Ecology and Evolution, 2020, 4, 1060-1068.	3.4	336
12	New Training to Meet the Global Phosphorus Challenge. Environmental Science & Technology, 2019, 53, 8479-8481.	4.6	29
13	Assessing the legacy of red mud pollution in a shallow freshwater lake: long-term chemical recovery in the water column. Inland Waters, 2019, 9, 453-463.	1.1	3
14	Human health risk associated with the management of phosphorus in freshwaters using lanthanum and aluminium. Chemosphere, 2019, 220, 286-299.	4.2	66
15	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.	3.9	295
16	Vanadium: A Re-Emerging Environmental Hazard. Environmental Science & Technology, 2018, 52, 11973-11974.	4.6	89
17	Ecological resilience in lakes and the conjunction fallacy. Nature Ecology and Evolution, 2017, 1, 1616-1624.	3.4	52
18	Assessing the role of bed sediments in the persistence of red mud pollution in a shallow lake (Kinghorn Loch, UK). Water Research, 2017, 123, 569-577.	5.3	15

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19	Effective restoration of aquatic ecosystems: scaling the barriers. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1190.	2.8	13
20	Do early warning indicators consistently predict nonlinear change in longâ€term ecological data?. Journal of Applied Ecology, 2016, 53, 666-676.	1.9	104
21	Rock geochemistry induces stress and starvation responses in the bacterial proteome. Environmental Microbiology, 2016, 18, 1110-1121.	1.8	18
22	Editorial â€“ A critical perspective on geo-engineering for eutrophication management in lakes. Water Research, 2016, 97, 1-10.	5.3	203
23	Assessing the Legacy of Red Mud Pollution in a Shallow Freshwater Lake: Arsenic Accumulation and Speciation in Macrophytes. Environmental Science & Technology, 2016, 50, 9044-9052.	4.6	37
24	Macronutrient processing by temperate lakes: A dynamic model for long-term, large-scale application. Science of the Total Environment, 2016, 572, 1573-1585.	3.9	9
25	Responses in sediment phosphorus and lanthanum concentrations and composition across 10 lakes following applications of lanthanum modified bentonite. Water Research, 2016, 97, 101-110.	5.3	70
26	Assessment of changes in potential nutrient limitation in an impounded river after application of lanthanum-modified bentonite. Water Research, 2016, 97, 47-54.	5.3	26
27	Ecological Instability in Lakes: A Predictable Condition?. Environmental Science & Technology, 2016, 50, 3285-3286.	4.6	10
28	Eutrophication management in surface waters using lanthanum modified bentonite: A review. Water Research, 2016, 97, 162-174.	5.3	252
29	A meta-analysis of water quality and aquatic macrophyte responses inÂ18 lakes treated with lanthanum modified bentonite (PhoslockÂ®). Water Research, 2016, 97, 111-121.	5.3	102
30	FORUM: Effective management of ecological resilience â€“ are we there yet?. Journal of Applied Ecology, 2015, 52, 1311-1315.	1.9	39
31	Long-term homeostasis of filterable un-reactive phosphorus in a shallow eutrophic lake following a significant reduction in catchment load. Geoderma, 2015, 257-258, 78-85.	2.3	7
32	Assessing the responses of aquatic macrophytes to the application of a lanthanum modified bentonite clay, at Loch Flemington, Scotland, UK. Hydrobiologia, 2014, 737, 309-320.	1.0	18
33	Geo-Engineering in Lakes: A Crisis of Confidence?. Environmental Science & Technology, 2014, 48, 9977-9979.	4.6	74
34	Assessment of a novel development policy for the control of phosphorus losses from private sewage systems to the Loch Leven catchment, Scotland, UK. Environmental Science and Policy, 2014, 38, 207-216.	2.4	8
35	Community history affects the predictability of microbial ecosystem development. ISME Journal, 2014, 8, 19-30.	4.4	80
36	Geoengineering in lakes: welcome attraction or fatal distraction?. Inland Waters, 2014, 4, 349-356.	1.1	76

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37	Lessons learned from geoengineering freshwater systems. Nature Climate Change, 2014, 4, 935-936.	8.1	4
38	Variation in chlorophyll a to total phosphorus ratio across 94 UK and Irish lakes: Implications for lake management. Journal of Environmental Management, 2013, 115, 287-294.	3.8	35
39	Comparison of phosphorus (P) removal properties of materials proposed for the control of sediment p release in UK lakes. Science of the Total Environment, 2013, 442, 103-110.	3.9	94
40	Assessing the mode of action of PhoslockÂ® in the control of phosphorus release from the bed sediments in a shallow lake (Loch Flemington, UK). Water Research, 2013, 47, 4460-4473.	5.3	128
41	Lake responses following lanthanum-modified bentonite clay (PhoslockÂ®) application: An analysis of water column lanthanum data from 16 case study lakes. Water Research, 2013, 47, 5930-5942.	5.3	135
42	Water Quality Remediation Faces Unprecedented Challenges from â€œLegacy Phosphorusâ€• Environmental Science & Technology, 2013, 47, 8997-8998.	4.6	228
43	Geo-Engineering in Lakesâ€”A Call for Consensus. Environmental Science & Technology, 2013, 47, 3953-3954.	4.6	51
44	Phosphorus Legacy: Overcoming the Effects of Past Management Practices to Mitigate Future Water Quality Impairment. Journal of Environmental Quality, 2013, 42, 1308-1326.	1.0	706
45	Intracellular Versus Extracellular Iron Accumulation in Freshwater Periphytic Mats Across a Mine Water Treatment Lagoon. Water, Air, and Soil Pollution, 2012, 223, 1519-1530.	1.1	5
46	Sediment amendment with PhoslockÂ® in Clatto Reservoir (Dundee, UK): Investigating changes in sediment elemental composition and phosphorus fractionation. Journal of Environmental Management, 2012, 93, 185-193.	3.8	151
47	The long-term (1979â€“2005) effects of the North Atlantic Oscillation on wind-induced wave mixing in Loch Leven (Scotland). Hydrobiologia, 2010, 646, 49-59.	1.0	26
48	The importance of nitrogen limitation in the restoration of Llangorse Lake, Wales, UK. Journal of Environmental Monitoring, 2010, 12, 338-346.	2.1	15
49	Highly Differentiated Populations of the Freshwater Diatom Sellaphora capitata Suggest Limited Dispersal and Opportunities for Allopatric Speciation. Protist, 2009, 160, 386-396.	0.6	76
50	A modelâ€based assessment of nonâ€compliance of phosphorus standards for lakes in England and Wales. International Journal of River Basin Management, 2009, 7, 197-207.	1.5	7
51	An evaluation of methods for sampling macrophyte maximum colonisation depth in Loch Leven, Scotland. Aquatic Botany, 2009, 91, 75-81.	0.8	26
52	Effects of light on sediment nutrient flux and water column nutrient stoichiometry in a shallow lake. Water Research, 2008, 42, 977-986.	5.3	81
53	The ecology of freshwater epipelic algae: an update. Phycologia, 2008, 47, 437-450.	0.6	73
54	Microalgal sediment biostabilisation along a salinity gradient in the Eden Estuary, Scotland: unravelling a paradox. Marine and Freshwater Research, 2008, 59, 313.	0.7	44

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55	Sediment phosphorus cycling in a large shallow lake: spatio-temporal variation in phosphorus pools and release. Hydrobiologia, 2007, 584, 37-48.	1.0	83
56	Bacterioplankton production, abundance, and nutrient limitation among lakes of the Mackenzie Delta (western Canadian arctic). Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 845-857.	0.7	24
57	Spatial and historical variation in sediment phosphorus fractions and mobility in a large shallow lake. Water Research, 2006, 40, 383-391.	5.3	48