

Bryan M Spears

List of Publications by Year in descending order

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Version: 2024-02-01

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	Phosphorus Legacy: Overcoming the Effects of Past Management Practices to Mitigate Future Water Quality Impairment. <i>Journal of Environmental Quality</i> , 2013, 42, 1308-1326.	1.0	706
2	Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems. <i>Nature Ecology and Evolution</i> , 2020, 4, 1060-1068.	3.4	336
3	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.	3.9	295
4	Eutrophication management in surface waters using lanthanum modified bentonite: A review. <i>Water Research</i> , 2016, 97, 162-174.	5.3	252
5	Water Quality Remediation Faces Unprecedented Challenges from "Legacy Phosphorus". <i>Environmental Science & Technology</i> , 2013, 47, 8997-8998.	4.6	228
6	Editorial "A critical perspective on geo-engineering for eutrophication management in lakes. <i>Water Research</i> , 2016, 97, 1-10.	5.3	203
7	Sediment amendment with Phoslock® in Clatto Reservoir (Dundee, UK): Investigating changes in sediment elemental composition and phosphorus fractionation. <i>Journal of Environmental Management</i> , 2012, 93, 185-193.	3.8	151
8	Lake responses following lanthanum-modified bentonite clay (Phoslock®) application: An analysis of water column lanthanum data from 16 case study lakes. <i>Water Research</i> , 2013, 47, 5930-5942.	5.3	135
9	Assessing the mode of action of Phoslock® in the control of phosphorus release from the bed sediments in a shallow lake (Loch Flemington, UK). <i>Water Research</i> , 2013, 47, 4460-4473.	5.3	128
10	Do early warning indicators consistently predict nonlinear change in long-term ecological data?. <i>Journal of Applied Ecology</i> , 2016, 53, 666-676.	1.9	104
11	A meta-analysis of water quality and aquatic macrophyte responses in 18 lakes treated with lanthanum modified bentonite (Phoslock®). <i>Water Research</i> , 2016, 97, 111-121.	5.3	102
12	Comparison of phosphorus (P) removal properties of materials proposed for the control of sediment p release in UK lakes. <i>Science of the Total Environment</i> , 2013, 442, 103-110.	3.9	94
13	Vanadium: A Re-Emerging Environmental Hazard. <i>Environmental Science & Technology</i> , 2018, 52, 11973-11974.	4.6	89
14	Sediment phosphorus cycling in a large shallow lake: spatio-temporal variation in phosphorus pools and release. <i>Hydrobiologia</i> , 2007, 584, 37-48.	1.0	83
15	Effects of light on sediment nutrient flux and water column nutrient stoichiometry in a shallow lake. <i>Water Research</i> , 2008, 42, 977-986.	5.3	81
16	Community history affects the predictability of microbial ecosystem development. <i>ISME Journal</i> , 2014, 8, 19-30.	4.4	80
17	Highly Differentiated Populations of the Freshwater Diatom <i>Sellaphora capitata</i> Suggest Limited Dispersal and Opportunities for Allopatric Speciation. <i>Protist</i> , 2009, 160, 386-396.	0.6	76
18	Geoengineering in lakes: welcome attraction or fatal distraction?. <i>Inland Waters</i> , 2014, 4, 349-356.	1.1	76

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19	Geo-Engineering in Lakes: A Crisis of Confidence?. <i>Environmental Science & Technology</i> , 2014, 48, 9977-9979.	4.6	74
20	The ecology of freshwater epipelagic algae: an update. <i>Phycologia</i> , 2008, 47, 437-450.	0.6	73
21	Responses in sediment phosphorus and lanthanum concentrations and composition across 10 lakes following applications of lanthanum modified bentonite. <i>Water Research</i> , 2016, 97, 101-110.	5.3	70
22	Human health risk associated with the management of phosphorus in freshwaters using lanthanum and aluminium. <i>Chemosphere</i> , 2019, 220, 286-299.	4.2	66
23	Ecological resilience in lakes and the conjunction fallacy. <i>Nature Ecology and Evolution</i> , 2017, 1, 1616-1624.	3.4	52
24	Geo-Engineering in Lakes—A Call for Consensus. <i>Environmental Science & Technology</i> , 2013, 47, 3953-3954.	4.6	51
25	Global actions for a sustainable phosphorus future. <i>Nature Food</i> , 2021, 2, 71-74.	6.2	50
26	Spatial and historical variation in sediment phosphorus fractions and mobility in a large shallow lake. <i>Water Research</i> , 2006, 40, 383-391.	5.3	48
27	Microalgal sediment biostabilisation along a salinity gradient in the Eden Estuary, Scotland: unravelling a paradox. <i>Marine and Freshwater Research</i> , 2008, 59, 313.	0.7	44
28	FORUM: Effective management of ecological resilience “are we there yet?”. <i>Journal of Applied Ecology</i> , 2015, 52, 1311-1315.	1.9	39
29	Assessing the Legacy of Red Mud Pollution in a Shallow Freshwater Lake: Arsenic Accumulation and Speciation in Macrophytes. <i>Environmental Science & Technology</i> , 2016, 50, 9044-9052.	4.6	37
30	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, 287-294.	3.8	35
31	Making waves. Bridging theory and practice towards multiple stressor management in freshwater ecosystems. <i>Water Research</i> , 2021, 196, 116981.	5.3	32
32	New Training to Meet the Global Phosphorus Challenge. <i>Environmental Science & Technology</i> , 2019, 53, 8479-8481.	4.6	29
33	An evaluation of methods for sampling macrophyte maximum colonisation depth in Loch Leven, Scotland. <i>Aquatic Botany</i> , 2009, 91, 75-81.	0.8	26
34	The long-term (1979–2005) effects of the North Atlantic Oscillation on wind-induced wave mixing in Loch Leven (Scotland). <i>Hydrobiologia</i> , 2010, 646, 49-59.	1.0	26
35	Assessment of changes in potential nutrient limitation in an impounded river after application of lanthanum-modified bentonite. <i>Water Research</i> , 2016, 97, 47-54.	5.3	26
36	Landscape controls on riverine export of dissolved organic carbon from Great Britain. <i>Biogeochemistry</i> , 2023, 164, 163-184.	1.7	26

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37	Bacterioplankton production, abundance, and nutrient limitation among lakes of the Mackenzie Delta (western Canadian arctic). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 845-857.	0.7	24
38	Assessing the responses of aquatic macrophytes to the application of a lanthanum modified bentonite clay, at Loch Flemington, Scotland, UK. <i>Hydrobiologia</i> , 2014, 737, 309-320.	1.0	18
39	Rock geochemistry induces stress and starvation responses in the bacterial proteome. <i>Environmental Microbiology</i> , 2016, 18, 1110-1121.	1.8	18
40	The importance of nitrogen limitation in the restoration of Llangorse Lake, Wales, UK. <i>Journal of Environmental Monitoring</i> , 2010, 12, 338-346.	2.1	15
41	Assessing the role of bed sediments in the persistence of red mud pollution in a shallow lake (Kinghorn Loch, UK). <i>Water Research</i> , 2017, 123, 569-577.	5.3	15
42	Effective restoration of aquatic ecosystems: scaling the barriers. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1190.	2.8	13
43	Can reductions in water residence time be used to disrupt seasonal stratification and control internal loading in a eutrophic monomictic lake?. <i>Journal of Environmental Management</i> , 2022, 304, 114169.	3.8	13
44	Lake management: is prevention better than cure?. <i>Inland Waters</i> , 2022, 12, 173-186.	1.1	12
45	Contrasting Estuarine Processing of Dissolved Organic Matter Derived From Natural and Human-impacted Landscapes. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007023.	1.9	12
46	Concerns about global phosphorus demand for lithium-iron-phosphate batteries in the light electric vehicle sector. <i>Communications Materials</i> , 2022, 3, .	2.9	12
47	Ecological Instability in Lakes: A Predictable Condition?. <i>Environmental Science & Technology</i> , 2016, 50, 3285-3286.	4.6	10
48	Macronutrient processing by temperate lakes: A dynamic model for long-term, large-scale application. <i>Science of the Total Environment</i> , 2016, 572, 1573-1585.	3.9	9
49	Annual water residence time effects on thermal structure: A potential lake restoration measure?. <i>Journal of Environmental Management</i> , 2022, 314, 115082.	3.8	9
50	Assessment of a novel development policy for the control of phosphorus losses from private sewage systems to the Loch Leven catchment, Scotland, UK. <i>Environmental Science and Policy</i> , 2014, 38, 207-216.	2.4	8
51	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.	1.5	7
52	Long-term homeostasis of filterable un-reactive phosphorus in a shallow eutrophic lake following a significant reduction in catchment load. <i>Geoderma</i> , 2015, 257-258, 78-85.	2.3	7
53	Assessing multiple stressor effects to inform climate change management responses in three European catchments. <i>Inland Waters</i> , 2022, 12, 94-106.	1.1	7
54	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.	1.1	5

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55	Lessons learned from geoengineering freshwater systems. <i>Nature Climate Change</i> , 2014, 4, 935-936.	8.1	4
56	Assessing the legacy of red mud pollution in a shallow freshwater lake: long-term chemical recovery in the water column. <i>Inland Waters</i> , 2019, 9, 453-463.	1.1	3
57	Mustering the troops toward preventative management in lakes. <i>Inland Waters</i> , 2022, 12, 1-7.	1.1	2