

Lee E Brown

List of Publications by Year in descending order

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99
papers

8,322
citations

81900

39
h-index

48315

88
g-index

100
all docs

100
docs citations

100
times ranked

10063
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change and freshwater ecosystems: impacts across multiple levels of organization. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2093-2106.	4.0	924
2	Review: Ecological networks “beyond food webs. <i>Journal of Animal Ecology</i> , 2009, 78, 253-269.	2.8	765
3	Recent advances in stream and river temperature research. <i>Hydrological Processes</i> , 2008, 22, 902-918.	2.6	623
4	Global Synthesis and Critical Evaluation of Pharmaceutical Data Sets Collected from River Systems. <i>Environmental Science & Technology</i> , 2013, 47, 661-677.	10.0	608
5	Glacier shrinkage driving global changes in downstream systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9770-9778.	7.1	381
6	River dam impacts on biogeochemical cycling. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 103-116.	29.7	372
7	Biodiversity, Species Interactions and Ecological Networks in a Fragmented World. <i>Advances in Ecological Research</i> , 2012, 46, 89-210.	2.7	284
8	Biodiversity under threat in glacier-fed river systems. <i>Nature Climate Change</i> , 2012, 2, 361-364.	18.8	265
9	Vulnerability of alpine stream biodiversity to shrinking glaciers and snowpacks. <i>Global Change Biology</i> , 2007, 13, 958-966.	9.5	258
10	Hydroecological response of river systems to shrinking glaciers. <i>Hydrological Processes</i> , 2009, 23, 62-77.	2.6	254
11	Drought alters the structure and functioning of complex food webs. <i>Nature Climate Change</i> , 2013, 3, 223-227.	18.8	199
12	Global patterns and drivers of ecosystem functioning in rivers and riparian zones. <i>Science Advances</i> , 2019, 5, eaav0486.	10.3	133
13	Fire effects on aquatic ecosystems: an assessment of the current state of the science. <i>Freshwater Science</i> , 2015, 34, 1340-1350.	1.8	132
14	The effects of climatic fluctuations and extreme events on running water ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150274.	4.0	131
15	Ecological Networks in a Changing Climate. <i>Advances in Ecological Research</i> , 2010, , 71-138.	2.7	110
16	Impact of simulated drought on ecosystem biomass production: an experimental test in stream mesocosms. <i>Global Change Biology</i> , 2011, 17, 2288-2297.	9.5	100
17	A Comparison of Muscle Activation Between a Smith Machine and Free Weight Bench Press. <i>Journal of Strength and Conditioning Research</i> , 2010, 24, 779-784.	2.1	96
18	Integrating climate “hydrology” ecology for alpine river systems. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2007, 17, 636-656.	2.0	95

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19	Widespread, routine occurrence of pharmaceuticals in sewage effluent, combined sewer overflows and receiving waters. <i>Environmental Pollution</i> , 2017, 220, 1447-1455.	7.5	95
20	A global agenda for advancing freshwater biodiversity research. <i>Ecology Letters</i> , 2022, 25, 255-263.	6.4	95
21	A critical analysis of regulated river ecosystem responses to managed environmental flows from reservoirs. <i>Freshwater Biology</i> , 2015, 60, 410-425.	2.4	94
22	Spatial heterogeneity of water temperature across an alpine river basin. <i>Hydrological Processes</i> , 2008, 22, 954-967.	2.6	81
23	Climate change impacts in multispecies systems: drought alters food web size structure in a field experiment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2990-2997.	4.0	74
24	Functional diversity and community assembly of river invertebrates show globally consistent responses to decreasing glacier cover. <i>Nature Ecology and Evolution</i> , 2018, 2, 325-333.	7.8	71
25	Groundwater influence on alpine stream ecosystems. <i>Freshwater Biology</i> , 2007, 52, 878-890.	2.4	69
26	Rapid loss of glacial ice reveals stream community assembly processes. <i>Global Change Biology</i> , 2012, 18, 2195-2204.	9.5	68
27	Spatial and temporal water column and streambed temperature dynamics within an alpine catchment: implications for benthic communities. <i>Hydrological Processes</i> , 2005, 19, 1585-1610.	2.6	65
28	Contemporary geomorphological activity throughout the proglacial area of an alpine catchment. <i>Geomorphology</i> , 2013, 188, 83-95.	2.6	65
29	Major flood disturbance alters river ecosystem evolution. <i>Nature Climate Change</i> , 2013, 3, 137-141.	18.8	61
30	Drought rewires the cores of food webs. <i>Nature Climate Change</i> , 2016, 6, 875-878.	18.8	57
31	Stability and Persistence of Alpine Stream Macroinvertebrate Communities and the Role of Physicochemical Habitat Variables. <i>Hydrobiologia</i> , 2006, 560, 159-173.	2.0	56
32	Hydroclimatological influences on water column and streambed thermal dynamics in an alpine river system. <i>Journal of Hydrology</i> , 2006, 325, 1-20.	5.4	55
33	Flow regulation alters alpine river thermal regimes. <i>Journal of Hydrology</i> , 2012, 464-465, 505-516.	5.4	54
34	Water source dynamics in a glacierized alpine river basin (Taillon-Gabi�tous, French Pyr�n�es). <i>Water Resources Research</i> , 2006, 42, .	4.2	53
35	Catchment-scale peatland restoration benefits stream ecosystem biodiversity. <i>Journal of Applied Ecology</i> , 2012, 49, 182-191.	4.0	48
36	Evolution of a stream ecosystem in recently deglaciated terrain. <i>Ecology</i> , 2011, 92, 1924-1935.	3.2	46

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37	Effects of fire on the hydrology, biogeochemistry, and ecology of peatland river systems. <i>Freshwater Science</i> , 2015, 34, 1406-1425.	1.8	45
38	The Multitrophic Effects of Climate Change and Glacier Retreat in Mountain Rivers. <i>BioScience</i> , 2017, 67, 897-911.	4.9	45
39	Accelerated mass loss of Himalayan glaciers since the Little Ice Age. <i>Scientific Reports</i> , 2021, 11, 24284.	3.3	45
40	Alpine Stream Temperature Response to Storm Events. <i>Journal of Hydrometeorology</i> , 2007, 8, 952-967.	1.9	44
41	Food web complexity and allometric scaling relationships in stream mesocosms: implications for experimentation. <i>Journal of Animal Ecology</i> , 2011, 80, 884-895.	2.8	40
42	Food Web Structure in a Harsh Glacier-Fed River. <i>PLoS ONE</i> , 2013, 8, e60899.	2.5	40
43	Extreme Climatic Events Alter Aquatic Food Webs. <i>Advances in Ecological Research</i> , 2013, 48, 343-395.	2.7	39
44	Persistence and stability of macroinvertebrate communities in streams of Denali National Park, Alaska: implications for biological monitoring. <i>Freshwater Biology</i> , 2006, 51, 373-387.	2.4	38
45	ARISE: a classification tool for Alpine River and Stream Ecosystems. <i>Freshwater Biology</i> , 2009, 54, 1357-1369.	2.4	38
46	Fire decreases near-surface hydraulic conductivity and macropore flow in blanket peat. <i>Hydrological Processes</i> , 2014, 28, 2868-2876.	2.6	38
47	Alpine river ecosystem response to glacial and anthropogenic flow pulses. <i>Freshwater Science</i> , 2015, 34, 1201-1215.	1.8	38
48	Biodiversity and ecosystem functioning in natural bog pools and those created by rewetting schemes. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 65-84.	6.5	36
49	Water source dynamics of high Arctic river basins. <i>Hydrological Processes</i> , 2014, 28, 3521-3538.	2.6	35
50	Numerical modelling of spatio-temporal thermal heterogeneity in a complex river system. <i>Journal of Hydrology</i> , 2012, 414-415, 491-502.	5.4	34
51	Impact of prescribed burning on blanket peat hydrology. <i>Water Resources Research</i> , 2015, 51, 6472-6484.	4.2	33
52	Endemic freshwater invertebrates from southern France: Diversity, distribution and conservation implications. <i>Biological Conservation</i> , 2009, 142, 2613-2619.	4.1	31
53	Thermal variability and stream flow permanency in an alpine river system. <i>River Research and Applications</i> , 2006, 22, 493-501.	1.7	29
54	Predicting river ecosystem response to glacial meltwater dynamics: a case study of quantitative water sourcing and glaciality index approaches. <i>Aquatic Sciences</i> , 2010, 72, 325-334.	1.5	29

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55	Coupling virtual watersheds with ecosystem services assessment: a 21st century platform to support river research and management. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 609-621.	6.5	29
56	Glacierâ€“groundwater stress gradients control alpine river biodiversity. <i>Ecohydrology</i> , 2016, 9, 1263-1275.	2.4	29
57	Rotational vegetation burning effects on peatland stream ecosystems. <i>Journal of Applied Ecology</i> , 2013, 50, 636-648.	4.0	28
58	Vegetation management with fire modifies peatland soil thermal regime. <i>Journal of Environmental Management</i> , 2015, 154, 166-176.	7.8	28
59	Declining glacier cover threatens the biodiversity of alpine river diatom assemblages. <i>Global Change Biology</i> , 2018, 24, 5828-5840.	9.5	28
60	Traitâ€“based ecology at large scales: Assessing functional trait correlations, phylogenetic constraints and spatial variability using open data. <i>Global Change Biology</i> , 2020, 26, 7255-7267.	9.5	28
61	Postactivation Potentiation of Bench Press Throw Performance Using Velocity-Based Conditioning Protocols with Low and Moderate Loads. <i>Journal of Human Kinetics</i> , 2019, 68, 81-98.	1.5	28
62	Water temperature dynamics in High Arctic river basins. <i>Hydrological Processes</i> , 2013, 27, 2958-2972.	2.6	26
63	River Ecosystem Response to Prescribed Vegetation Burning on Blanket peatland. <i>PLoS ONE</i> , 2013, 8, e81023.	2.5	26
64	Environmental drivers of macroinvertebrate communities in high <sc>A</sc>rctic rivers (<sc>S</sc>valbard). <i>Freshwater Biology</i> , 2014, 59, 378-391.	2.4	25
65	Decadalâ€“scale changes of the ÅŒdenwinkelkees, central Austria, suggest increasing control of topography and evolution towards steady state. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2015, 97, 543-562.	1.5	25
66	Prescribed burning, atmospheric pollution and grazing effects on peatland vegetation composition. <i>Journal of Applied Ecology</i> , 2018, 55, 559-569.	4.0	25
67	High Concentrations of Pharmaceuticals in a Nigerian River Catchment. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 551-558.	4.3	25
68	River ecosystem resilience to extreme flood events. <i>Ecology and Evolution</i> , 2018, 8, 8354-8363.	1.9	23
69	Mitigation of urbanization effects on aquatic ecosystems by synchronous ecological restoration. <i>Water Research</i> , 2021, 204, 117587.	11.3	22
70	Stream ecosystem responses to an extreme rainfall event across multiple catchments in southeast <sc>A</sc>laska. <i>Freshwater Biology</i> , 2015, 60, 2523-2534.	2.4	20
71	Potentiation of Bench Press Throw Performance Using a Heavy Load and Velocity-Based Repetition Control. <i>Journal of Strength and Conditioning Research</i> , 2021, 35, S72-S79.	2.1	20
72	Macroinvertebrate community assembly in pools created during peatland restoration. <i>Science of the Total Environment</i> , 2016, 569-570, 361-372.	8.0	19

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73	Evaluating the use of dominant microbial consumers (testate amoebae) as indicators of blanket peatland restoration. <i>Ecological Indicators</i> , 2016, 69, 318-330.	6.3	18
74	Forest clearfelling effects on dissolved oxygen and metabolism in peatland streams. <i>Journal of Environmental Management</i> , 2016, 166, 250-259.	7.8	18
75	Fungal decomposition of river organic matter accelerated by decreasing glacier cover. <i>Nature Climate Change</i> , 2021, 11, 349-353.	18.8	17
76	Sediment deposition from eroding peatlands alters headwater invertebrate biodiversity. <i>Global Change Biology</i> , 2019, 25, 602-619.	9.5	15
77	Hourly Prediction of Phytoplankton Biomass and Its Environmental Controls in Lowland Rivers. <i>Water Resources Research</i> , 2021, 57, e2020WR028773.	4.2	14
78	Antagonistic effects of biological invasion and environmental warming on detritus processing in freshwater ecosystems. <i>Oecologia</i> , 2017, 183, 875-886.	2.0	13
79	Transformation of detritus by a European native and two invasive alien freshwater decapods. <i>Biological Invasions</i> , 2018, 20, 1799-1808.	2.4	12
80	The changing water cycle: the need for an integrated assessment of the resilience to changes in water supply in High Mountain Asia. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1258.	6.5	12
81	Multi-faceted impacts of native and invasive alien decapod species on freshwater biodiversity and ecosystem functioning. <i>Freshwater Biology</i> , 2019, 64, 461-473.	2.4	12
82	Macrofaunal Ecology of Sedimented Hydrothermal Vents in the Bransfield Strait, Antarctica. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	11
83	Organic sediment pulses impact rivers across multiple levels of ecological organization. <i>Ecohydrology</i> , 2017, 10, e1855.	2.4	11
84	Invasion success of a widespread invasive predator may be explained by a high predatory efficacy but may be influenced by pathogen infection. <i>Biological Invasions</i> , 2019, 21, 3545-3560.	2.4	11
85	Biogeochemical Distinctiveness of Peatland Ponds, Thermokarst Waterbodies, and Lakes. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	11
86	Spatial and seasonal variability of peatland stream ecosystems. <i>Ecohydrology</i> , 2011, 4, 577-588.	2.4	10
87	High concentrations of pharmaceuticals emerging as a threat to Himalayan water sustainability. <i>Environmental Science and Pollution Research</i> , 2022, 29, 16749-16757.	5.3	10
88	Podcasting and vodcasting to BSc Geography students. <i>Planet</i> , 2011, 24, 62-67.	0.1	9
89	Moorland vegetation burning debates should avoid contextomy and anachronism: a comment on Davies et al . (2016). <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20160432.	4.0	8
90	Repeated high flows drive morphological change in rivers in recently deglaciated catchments. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 1294-1310.	2.5	8

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91	Changes in EMG and movement velocity during a set to failure against different loads in the bench press exercise. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 2071-2082.	2.9	8
92	Limited impacts of experimental flow releases on water quality and macroinvertebrate community composition in an upland regulated river. <i>Ecohydrology</i> , 2020, 13, e2174.	2.4	7
93	High-resolution water quality and ecosystem metabolism modeling in lowland rivers. <i>Limnology and Oceanography</i> , 2022, 67, 1313-1327.	3.1	6
94	Extreme flood disturbance effects on multiple dimensions of river invertebrate community stability. <i>Journal of Animal Ecology</i> , 2021, 90, 2135-2146.	2.8	5
95	Contextualizing UK moorland burning studies with geographical variables and sponsor identity. <i>Journal of Applied Ecology</i> , 2020, 57, 2121-2131.	4.0	3
96	Invasive alien shredders clear up invasive alien leaf litter. <i>Ecology and Evolution</i> , 2018, 8, 10049-10056.	1.9	2
97	Hydroecology of Alpine Rivers. , 0, , 339-360.		1
98	Alpine Streams and Rivers. , 2022, , .		1
99	Succession in Streams. , 2022, , .		0