

Lisa Belyea

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,309
citations

257450

24
h-index

414414

32
g-index

45
all docs

45
docs citations

45
times ranked

3696
citing authors

#	ARTICLE	IF	CITATIONS
1	Assembly Rules within a Contingent Ecology. <i>Oikos</i> , 1999, 86, 402.	2.7	437
2	A database and synthesis of northern peatland soil properties and Holocene carbon and nitrogen accumulation. <i>Holocene</i> , 2014, 24, 1028-1042.	1.7	404
3	Carbon sequestration in peatland: patterns and mechanisms of response to climate change. <i>Global Change Biology</i> , 2004, 10, 1043-1052.	9.5	278
4	BEYOND "THE LIMITS TO PEAT BOG GROWTH": CROSS-SCALE FEEDBACK IN PEATLAND DEVELOPMENT. <i>Ecological Monographs</i> , 2006, 76, 299-322.	5.4	270
5	Feedback control of the rate of peat formation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1315-1321.	2.6	262
6	Separating the Effects of Litter Quality and Microenvironment on Decomposition Rates in a Patterned Peatland. <i>Oikos</i> , 1996, 77, 529.	2.7	167
7	Nested Hierarchies and Scale-Dependence of Mechanisms of Flow Refugium Use. <i>Journal of the North American Benthological Society</i> , 1997, 16, 221-238.	3.1	137
8	The spatiotemporal dynamics of a primary succession. <i>Journal of Ecology</i> , 2008, 96, 231-246.	4.0	110
9	Sensitivity of Northern Peatland Carbon Dynamics to Holocene Climate Change. <i>Geophysical Monograph Series</i> , 0, , 55-69.	0.1	106
10	Defining the limits to local density: alternative views of abundance-environment relationships. <i>Freshwater Biology</i> , 2006, 51, 783-796.	2.4	87
11	Inferring landscape dynamics of bog pools from scaling relationships and spatial patterns. <i>Journal of Ecology</i> , 2002, 90, 223-234.	4.0	73
12	Carbon Isotopic Composition of Deep Carbon Gases in an Ombrogenous Peatland, Northwestern Ontario, Canada. <i>Radiocarbon</i> , 1993, 35, 271-276.	1.8	67
13	Temporal scale and the accumulation of peat in a <i>Sphagnum</i> bog. <i>Canadian Journal of Botany</i> , 1996, 74, 366-377.	1.1	64
14	The DigiBog peatland development model 1: rationale, conceptual model, and hydrological basis. <i>Ecohydrology</i> , 2012, 5, 242-255.	2.4	61
15	Ecohydrological feedbacks in peatland development: a theoretical modelling study. <i>Journal of Ecology</i> , 2011, 99, 1190-1201.	4.0	54
16	The Sphagnome Project: enabling ecological and evolutionary insights through a genus-level sequencing project. <i>New Phytologist</i> , 2018, 217, 16-25.	7.3	54
17	Nonlinear Dynamics of Peatlands and Potential Feedbacks on the Climate System. <i>Geophysical Monograph Series</i> , 0, , 5-18.	0.1	53
18	Resource contrast in patterned peatlands increases along a climatic gradient. <i>Ecology</i> , 2010, 91, 2344-2355.	3.2	47

#	ARTICLE	IF	CITATIONS
19	Effect of water-table fluctuations on the degradation of Sphagnum phenols in surficial peats. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 177-191.	3.9	46
20	Tradeoffs and scaling of functional traits in <i>Sphagnum</i> as drivers of carbon cycling in peatlands. <i>Oikos</i> , 2014, 123, 817-828.	2.7	45
21	The DigiBog peatland development model 2: ecohydrological simulations in 2D. <i>Ecohydrology</i> , 2012, 5, 256-268.	2.4	43
22	Revealing the Emperor's new clothes: niche-based palaeoenvironmental reconstruction in the light of recent ecological theory. <i>Holocene</i> , 2007, 17, 683-688.	1.7	39
23	Upscaling of Peatland-Atmosphere Fluxes of Methane: Small-Scale Heterogeneity in Process Rates and the Pitfalls of "Bucket-and-Slab" Models. <i>Geophysical Monograph Series</i> , 0, , 37-53.	0.1	38
24	Bridging the gap between models and measurements of peat hydraulic conductivity. <i>Water Resources Research</i> , 2015, 51, 5353-5364.	4.2	36
25	Methane Dynamics in Peat: Importance of Shallow Peats and a Novel Reduced-Complexity Approach for Modeling Ebullition. <i>Geophysical Monograph Series</i> , 0, , 173-185.	0.1	35
26	Climatic and topographic limits to the abundance of bog pools. <i>Hydrological Processes</i> , 2007, 21, 675-687.	2.6	34
27	Issues Related to Incorporating Northern Peatlands into Global Climate Models. <i>Geophysical Monograph Series</i> , 0, , 19-35.	0.1	30
28	A novel indicator of reducing conditions and water table depth in mires. <i>Functional Ecology</i> , 1999, 13, 431-434.	3.6	29
29	Dating of the near-surface layer of a peatland in northwestern Ontario, Canada. <i>Boreas</i> , 1994, 23, 259-269.	2.4	26
30	Plant Litter Decomposition and Nutrient Release in Peatlands. <i>Geophysical Monograph Series</i> , 0, , 99-110.	0.1	26
31	Hydraulic Habitat and the Assemblage Structure of Stream Benthic Microcrustacea. <i>Journal of the North American Benthological Society</i> , 1997, 16, 562-575.	3.1	24
32	Spatial patterns of microsite colonisation on two young lava flows on Mount Hekla, Iceland. <i>Journal of Vegetation Science</i> , 2008, 19, 277-286.	2.2	21
33	The Stable Carbon Isotope Composition of Methane Produced and Emitted from Northern Peatlands. <i>Geophysical Monograph Series</i> , 0, , 187-203.	0.1	20
34	Towards a microbial process-based understanding of the resilience of peatland ecosystem service provisioning – A research agenda. <i>Science of the Total Environment</i> , 2021, 759, 143467.	8.0	15
35	Partitioning Litter Mass Loss into Carbon Dioxide and Methane in Peatland Ecosystems. <i>Geophysical Monograph Series</i> , 0, , 131-144.	0.1	13
36	The Importance of CH ₄ Ebullition in Floodplain Fens. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1750-1763.	3.0	12

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37	The role of hydrological transience in peatland pattern formation. <i>Earth Surface Dynamics</i> , 2013, 1, 29-43.	2.4	11
38	Understanding Carbon Cycling in Northern Peatlands: Recent Developments and Future Prospects. <i>Geophysical Monograph Series</i> , 0, , 1-3.	0.1	8
39	Temporal and spatial distributions of sediment mercury in restored coastal saltmarshes. <i>Marine Chemistry</i> , 2014, 167, 150-159.	2.3	8
40	Methane Accumulation and Release from Deep Peat: Measurements, Conceptual Models, and Biogeochemical Significance. <i>Geophysical Monograph Series</i> , 0, , 145-158.	0.1	7
41	Northern Peatland Vegetation and the Carbon Cycle: A Remote Sensing Approach. <i>Geophysical Monograph Series</i> , 0, , 79-98.	0.1	5
42	Improving Conceptual Models of Water and Carbon Transfer Through Peat. <i>Geophysical Monograph Series</i> , 2013, , 265-275.	0.1	2
43	Resource contrast in patterned peatlands increases along a climatic gradient. <i>Ecology</i> , 2010, 91, 100618132138042.	3.2	1