Lee E Frelich

List of Publications by Year in Descending Order

98 papers	7,018 citations	46 h-index	83 g-index
102 ext. papers	7,896 ext. citations	4.4 avg, IF	6.05 L-index

#	Paper	IF	Citations
98	White-tailed deer herbivory impacts on tree seedling and sapling abundance in the Lake States Region of the USA. *Annals of Forest Science*, **2021**, 78, 1	3.1	0
97	Earthworm invasion causes declines across soil fauna size classes and biodiversity facets in northern North American forests. *Oikos*, **2021**, 130, 766-780	4	9
96	Seven Ways a Warming Climate Can Kill the Southern Boreal Forest. *Forests*, **2021**, 12, 560	2.8	4
95	Ural Mountains Taiga **2021**,		0
94	The Possibility of Using the Chapman-Richards and Näslund Functions to Model Height-Diameter Relationships in Hemiboreal Old-Growth Forest in Estonia. *Forests*, **2021**, 12, 184	2.8	1
93	History and Future of Fire in Hardwood and Conifer Forests of the Great Lakes-Northeastern Forest Region, USA. *Managing Forest Ecosystems*, **2021**, 243-285	0.7	
92	Are Secondary Forests Ready for Climate Change? It Depends on Magnitude of Climate Change, Landscape Diversity and Ecosystem Legacies. *Forests*, **2020**, 11, 965	2.8	6
91	Climate-change refugia in boreal North America: what, where, and for how long?. *Frontiers in Ecology and the Environment*, **2020**, 18, 261-270	5.5	41
90	Boreal and Taiga Biome **2020**, 103-115		2
89	Climate-Biome Envelope Shifts Create Enormous Challenges and Novel Opportunities for Conservation. *Forests*, **2020**, 11, 1015	2.8	3
88	Terrestrial Ecosystem Impacts of Sulfide Mining: Scope of Issues for the Boundary Waters Canoe Area Wilderness, Minnesota, USA. *Forests*, **2019**, 10, 747	2.8	8
87	Monitoring disturbance intervals in forests: a case study of increasing forest disturbance in Minnesota. *Annals of Forest Science*, **2019**, 76, 1	3.1	8
86	Side-swiped: Ecological cascades emanating from earthworm invasion. *Frontiers in Ecology and the Environment*, **2019**, 17, 502-510	5.5	33
85	Promoting and maintaining diversity in contemporary hardwood forests: Confronting contemporary drivers of change and the loss of ecological memory. *Forest Ecology and Management* , **2018**, 421, 98-108	3.9	50
84	Natural Disturbances and Forest Management: Interacting Patterns on the Landscape **2018**, 221-248		5
83	How much does climate change threaten European forest tree species distributions?. *Global Change Biology*, **2018**, 24, 1150-1163	11.4	290
82	Interspecific competition limits the realized niche of*Fraxinus nigra*along a waterlogging gradient. *Canadian Journal of Forest Research*, **2018**, 48, 1292-1301	1.9	7

81	Imprints of management history on hemiboreal forest ecosystems in the Baltic States. *Ecosphere*, **2018**, 9, e02503	3.1	15
80	Patterns and drivers of recent disturbances across the temperate forest biome. *Nature Communications*, **2018**, 9, 4355	17.4	102
79	Quantifying impacts of white-tailed deer (Odocoileus virginianus Zimmerman) browse using forest inventory and socio-environmental datasets. *PLoS ONE*, **2018**, 13, e0201334	3.7	8
78	Wildland Fire: Understanding and Maintaining an Ecological Baseline. *Current Forestry Reports*, **2017** , 3, 188-201	8	4
77	The changing role of fire in mediating the relationships among oaks, grasslands, mesic temperate forests, and boreal forests in the Lake States. *Journal of Sustainable Forestry*, **2017**, 36, 421-432	1.2	16
76	Hemiboreal forest: natural disturbances and the importance of ecosystem legacies to management. *Ecosphere*, **2017**, 8, e01706	3.1	53
75	The unseen invaders: introduced earthworms as drivers of change in plant communities in North American forests (a meta-analysis). *Global Change Biology*, **2017**, 23, 1065-1074	11.4	77
74	Changing disturbance regimes, ecological memory, and forest resilience. *Frontiers in Ecology and the Environment*, **2016**, 14, 369-378	5.5	635
73	Invasive earthworms interact with abiotic conditions to influence the invasion of common buckthorn (Rhamnus cathartica). *Oecologia*, **2015**, 178, 219-30	2.9	28
72	Impact of wind-induced microsites and disturbance severity on tree regeneration patterns: Results from the first post-storm decade. *Forest Ecology and Management*, **2015**, 348, 174-185	3.9	19
71	Temperature and leaf nitrogen affect performance of plant species at range overlap. *Ecosphere*, **2015**, 6, art186	3.1	7
70	Resident plant diversity and introduced earthworms have contrasting effects on the success of invasive plants. *Biological Invasions*, **2014**, 16, 2181-2193	2.7	16
69	Earthworm invasion alters enchytraeid community composition and individual biomass in northern hardwood forests of North America. *Applied Soil Ecology*, **2014**, 83, 159-169	5	21
68	How to Become a Forest Ecologist In Only 40 Years. *Bulletin of the Ecological Society of America*, **2014**, 95, 207-210	0.7	
67	Temperate tree expansion into adjacent boreal forest patches facilitated by warmer temperatures. *Ecography*, **2014**, 37, 152-161	6.5	89
66	Climate and interrelated tree regeneration drivers in mixed temperate–boreal forests. *Landscape Ecology*, **2013**, 28, 149-159	4.3	45
65	Earthworm Invasions in Northern Hardwood Forests: a Rapid Assessment Method. *Natural Areas Journal*, **2013**, 33, 21-30	0.8	20
64	Linking direct and indirect pathways mediating earthworms, deer, and understory composition in Great Lakes forests. *Biological Invasions*, **2013**, 15, 1057-1066	2.7	53

63	Do vegetation boundaries display smooth or abrupt spatial transitions along environmental gradients? Evidence from the prairie–forest biome boundary of historic Minnesota, USA. *Journal of Vegetation Science*, **2013**, 24, 1129-1140	3.1	25
62	Interactive effects of global warming and "global worming" on the initial establishment of native and exotic herbaceous plant species. *Oikos*, **2012**, 121, 1121-1133	4	53
61	Sapling growth responses to warmer temperatures "cooled" by browse pressure. *Global Change Biology*, **2012**, 18, 3455-3463	11.4	58
60	Leaf Litter Disappearance in Earthworm-Invaded Northern Hardwood Forests: Role of Tree Species and the Chemistry and Diversity of Litter. *Ecosystems*, **2012**, 15, 913-926	3.9	36
59	Trophic cascades, invasive species and body-size hierarchies interactively modulate climate change responses of ecotonal temperate-boreal forest. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2012**, 367, 2955-61	5.8	44
58	First records of Parergodrilus heideri (Annelida: "Polychaeta") from North America. *Zootaxa*, **2012**, 3498, 81	0.5	4
57	Understorey diversity in southern boreal forests is regulated by productivity and its indirect impacts on resource availability and heterogeneity. *Journal of Ecology*, **2012**, 100, 539-545	6	85
56	Poor recruitment is changing the structure and species composition of an old-growth hemlock-hardwood forest. *Forest Ecology and Management*, **2011**, 261, 1998-2006	3.9	37
55	Experimental warming induces degradation of a Tibetan alpine meadow through trophic interactions. *Journal of Applied Ecology*, **2011**, 48, 659-667	5.8	61
54	Flowering phenology and height growth pattern are associated with maximum plant height, relative growth rate and stem tissue mass density in herbaceous grassland species. *Journal of Ecology*, **2011**, 99, 991-1000	6	74
53	Vegetation controls vary across space and spatial scale in a historic grassland-forest biome boundary. *Ecography*, **2011**, 34, 402-414	6.5	25
52	The wave towards a new steady state: effects of earthworm invasion on soil microbial functions. *Biological Invasions*, **2011**, 13, 2191-2196	2.7	39
51	Fine-scale heterogeneity in overstory composition contributes to heterogeneity of wildfire severity in southern boreal forest. *Journal of Forest Research*, **2011**, 16, 203-214	1.4	17
50	Will environmental changes reinforce the impact of global warming on the prairie–forest border of central North America?. *Frontiers in Ecology and the Environment*, **2010**, 8, 371-378	5.5	123
49	Tree rings detect earthworm invasions and their effects in northern Hardwood forests. *Biological Invasions*, **2010**, 12, 1053-1066	2.7	41
48	European buckthorn and Asian soybean aphid as components of an extensive invasional meltdown in North America. *Biological Invasions*, **2010**, 12, 2913-2931	2.7	125
47	Detecting wind disturbance severity and canopy heterogeneity in boreal forest by coupling high-spatial resolution satellite imagery and field data. *Remote Sensing of Environment*, **2010**, 114, 299-308	13.2	23
46	Wilderness Conservation in an Era of Global Warming and Invasive Species: A Case Study from Minnesota's Boundary Waters Canoe Area Wilderness. *Natural Areas Journal*, **2009**, 29, 385-393	0.8	22

45	Regional climate change adaptation strategies for biodiversity conservation in a midcontinental region of North America. *Biological Conservation*, **2009**, 142, 2012-2022	6.2	78
44	Patterns of plant community structure within and among primary and second-growth northern hardwood forest stands. *Forest Ecology and Management*, **2009**, 258, 2556-2568	3.9	33
43	Site factors affecting black ash ring growth in northern Minnesota. *Forest Ecology and Management*, **2008**, 255, 3489-3493	3.9	11
42	Litter decomposition in earthworm-invaded northern hardwood forests: Role of invasion degree and litter chemistry. *Ecoscience*, **2008**, 15, 536-544	1.1	42
41	Moss harvest truncates the successional development of epiphytic bryophytes in the Pacific Northwest **2008**, 18, 146-58		6
40	Frost Crack Incidence in Northern Hardwood Forests of the Southern Boreal□North Temperate Transition Zone. *Northern Journal of Applied Forestry*, **2008**, 25, 133-138		9
39	Exotic earthworm effects on hardwood forest floor, nutrient availability and native plants: a mesocosm study. *Oecologia*, **2008**, 155, 509-18	2.9	69
38	Wind-throw mortality in the southern boreal forest: effects of species, diameter and stand age. *Journal of Ecology*, **2007**, 95, 1261-1273	6	134
37	Effects of earthworm invasion on plant species richness in northern hardwood forests. *Conservation Biology*, **2007**, 21, 997-1008	6	88
36	Regional extent of an ecosystem engineer: earthworm invasion in northern hardwood forests **2007**, 17, 1666-77		75
35	Changes in hardwood forest understory plant communities in response to European earthworm invasions. *Ecology*, **2006**, 87, 1637-49	4.6	181
34	Earthworm invasion into previously earthworm-free temperate and boreal forests. *Biological Invasions*, **2006**, 8, 1235-1245	2.7	222
33	Earthworm invasion into previously earthworm-free temperate and boreal forests **2006**, 35-45		6
32	Effects of European Earthworm Invasion on Soil Characteristics in Northern Hardwood Forests of Minnesota, USA. *Ecosystems*, **2005**, 8, 911-927	3.9	173
31	PATHWAYS IN OLD-FIELD SUCCESSION TO WHITE PINE: SEED RAIN, SHADE, AND CLIMATE EFFECTS. *Ecological Monographs*, **2005**, 75, 363-378	9	90
30	EXOTIC EUROPEAN EARTHWORM INVASION DYNAMICS IN NORTHERN HARDWOOD FORESTS OF MINNESOTA, USA **2005**, 15, 848-860		141
29	Allometric Equations for Estimation of Ash-free Dry Mass from Length Measurements for Selected European Earthworm Species (Lumbricidae) in the Western Great Lakes Region. *American Midland Naturalist*, **2004**, 151, 179-185	0.7	50
28	Examining the effects of alternative management strategies on landscape-scale forest patterns in northeastern Minnesota using LANDIS. *Ecological Modelling*, **2004**, 180, 73-87	3	16

27	Fine-scale environmental variation and structure of understorey plant communities in two old-growth pine forests. *Journal of Ecology*, **2003**, 91, 283-293	6	50
26	Perspectives on development of definitions and values related to old-growth forests. *Environmental Reviews*, **2003**, 11, S9-S22	4.5	45
25	Seed rain, safe sites, competing vegetation, and soil resources spatially structure white pine regeneration and recruitment. *Canadian Journal of Forest Research*, **2003**, 33, 1892-1904	1.9	66
24	Forest Dynamics and Disturbance Regimes: Studies from Temperate Evergreen-Deciduous Forests **2002**,		280
23	Comparing the Importance of Seedbed and Canopy Type in the Restoration of Upland Thuja occidentalis Forests of Northeastern Minnesota. *Restoration Ecology*, **2001**, 9, 386-396	3.1	22
22	Discordance in spatial patterns of white pine (Pinus strobus) size-classes in a patchy near-boreal forest. *Journal of Ecology*, **2001**, 89, 280-291	6	62
21	Multiple scale composition and spatial distribution patterns of the north-eastern Minnesota presettlement forest. *Journal of Ecology*, **2001**, 89, 538-554	6	36
20	INFLUENCE OF LOGGING, FIRE, AND FOREST TYPE ON BIODIVERSITY AND PRODUCTIVITY IN SOUTHERN BOREAL FORESTS. *Ecology*, **2001**, 82, 2731-2748	4.6	151
19	Seedbed and moisture availability determine safe sites for early Thuja occidentalis (Cupressaceae) regeneration. *American Journal of Botany*, **2000**, 87, 1807-1814	2.7	40
18	Conservation implications of browsing by Odocoileus virginianus in remnant upland Thuja occidentalis forests. *Biological Conservation*, **2000**, 93, 359-369	6.2	71
17	Minireviews: Neighborhood Effects, Disturbance Severity, and Community Stability in Forests. *Ecosystems*, **1999**, 2, 151-166	3.9	130
16	Are Large, Infrequent Disturbances Qualitatively Different from Small, Frequent Disturbances?. *Ecosystems*, **1998**, 1, 524-534	3.9	136
15	Effects of White-Tailed Deer on Populations of an Understory Forb in Fragmented Deciduous Forests. *Conservation Biology*, **1998**, 12, 995-1004	6	186
14	Neighbourhood effects in forests: implications for within-stand patch structure. *Journal of Ecology*, **1998**, 86, 149-161	6	47
13	EVIDENCE FOR TWO ALTERNATE STABLE STATES IN AN UNGULATE GRAZING SYSTEM **1998**, 8, 1260-1269		105
12	A Structural Alternative to Chronosequence Analysis for Uneven-Aged Northern Hardwood Forests. *Journal of Sustainable Forestry*, **1997**, 6, 347-366	1.2	21
11	Modeling for ecosystem management in Minnesota pine forests. *Biological Conservation*, **1997**, 80, 313-324	3.4	28
10	Spatial Patterns and Succession in a Minnesota Southern-Boreal Forest. *Ecological Monographs*, **1995**, 65, 325-346	9	282

9	Neighborhood effects, disturbance, and succession in forests of the western Great Lakes Region1. *Ecoscience*, **1995**, 2, 148-158	1.1	38
8	Age-class distribution and spatial patterns in an old-growth hemlock-hardwood forest. *Canadian Journal of Forest Research*, **1994**, 24, 1939-1947	1.9	80
7	Patch Formation and Maintenance in an Old-Growth Hemlock-Hardwood Forest. *Ecology*, **1993**, 74, 513-527	4.6	134
6	Natural Disturbance Regimes in Hemlock-Hardwood Forests of the Upper Great Lakes Region. *Ecological Monographs*, **1991**, 61, 145-164	9	342
5	A Simulation of Landscape-Level Stand Dynamics in the Northern Hardwood Region. *Journal of Ecology*, **1991**, 79, 223	6	52
4	A methodology for estimating canopy disturbance frequency and intensity in dense temperate forests. *Canadian Journal of Forest Research*, **1989**, 19, 651-663	1.9	340
3	Estimating Gap Origin Probabilities for Canopy Trees. *Ecology*, **1988**, 69, 778-785	4.6	56
2	Current and predicted long-term effects of deer browsing in hemlock forests in Michigan, USA. *Biological Conservation*, **1985**, 34, 99-120	6.2	164
1	A Simulation of Equilibrium Diameter Distributions of Sugar Maple (Acer saccharum). *Bulletin of the Torrey Botanical Club*, **1984**, 111, 193		62