

Lee E Frelich

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Changing disturbance regimes, ecological memory, and forest resilience. <i>Frontiers in Ecology and the Environment</i> , 2016 , 14, 369-378	5.5	635
97	Natural Disturbance Regimes in Hemlock-Hardwood Forests of the Upper Great Lakes Region. <i>Ecological Monographs</i> , 1991 , 61, 145-164	9	342
96	A methodology for estimating canopy disturbance frequency and intensity in dense temperate forests. <i>Canadian Journal of Forest Research</i> , 1989 , 19, 651-663	1.9	340
95	How much does climate change threaten European forest tree species distributions?. <i>Global Change Biology</i> , 2018 , 24, 1150-1163	11.4	290
94	Spatial Patterns and Succession in a Minnesota Southern-Boreal Forest. <i>Ecological Monographs</i> , 1995 , 65, 325-346	9	282
93	Forest Dynamics and Disturbance Regimes: Studies from Temperate Evergreen-Deciduous Forests 2002 ,		280
92	Earthworm invasion into previously earthworm-free temperate and boreal forests. <i>Biological Invasions</i> , 2006 , 8, 1235-1245	2.7	222
91	Effects of White-Tailed Deer on Populations of an Understory Forb in Fragmented Deciduous Forests. <i>Conservation Biology</i> , 1998 , 12, 995-1004	6	186
90	Changes in hardwood forest understory plant communities in response to European earthworm invasions. <i>Ecology</i> , 2006 , 87, 1637-49	4.6	181
89	Effects of European Earthworm Invasion on Soil Characteristics in Northern Hardwood Forests of Minnesota, USA. <i>Ecosystems</i> , 2005 , 8, 911-927	3.9	173
88	Current and predicted long-term effects of deer browsing in hemlock forests in Michigan, USA. <i>Biological Conservation</i> , 1985 , 34, 99-120	6.2	164
87	INFLUENCE OF LOGGING, FIRE, AND FOREST TYPE ON BIODIVERSITY AND PRODUCTIVITY IN SOUTHERN BOREAL FORESTS. <i>Ecology</i> , 2001 , 82, 2731-2748	4.6	151
86	EXOTIC EUROPEAN EARTHWORM INVASION DYNAMICS IN NORTHERN HARDWOOD FORESTS OF MINNESOTA, USA 2005 , 15, 848-860		141
85	Are Large, Infrequent Disturbances Qualitatively Different from Small, Frequent Disturbances?. <i>Ecosystems</i> , 1998 , 1, 524-534	3.9	136
84	Wind-throw mortality in the southern boreal forest: effects of species, diameter and stand age. <i>Journal of Ecology</i> , 2007 , 95, 1261-1273	6	134
83	Patch Formation and Maintenance in an Old-Growth Hemlock-Hardwood Forest. <i>Ecology</i> , 1993 , 74, 513-526		134
82	Minireviews: Neighborhood Effects, Disturbance Severity, and Community Stability in Forests. <i>Ecosystems</i> , 1999 , 2, 151-166	3.9	130

81	European buckthorn and Asian soybean aphid as components of an extensive invasional meltdown in North America. <i>Biological Invasions</i> , 2010 , 12, 2913-2931	2.7	125
80	Will environmental changes reinforce the impact of global warming on the prairie-forest border of central North America?. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 371-378	5.5	123
79	EVIDENCE FOR TWO ALTERNATE STABLE STATES IN AN UNGULATE GRAZING SYSTEM 1998 , 8, 1260-1269		105
78	Patterns and drivers of recent disturbances across the temperate forest biome. <i>Nature Communications</i> , 2018 , 9, 4355	17.4	102
77	PATHWAYS IN OLD-FIELD SUCCESSION TO WHITE PINE: SEED RAIN, SHADE, AND CLIMATE EFFECTS. <i>Ecological Monographs</i> , 2005 , 75, 363-378	9	90
76	Temperate tree expansion into adjacent boreal forest patches facilitated by warmer temperatures. <i>Ecography</i> , 2014 , 37, 152-161	6.5	89
75	Effects of earthworm invasion on plant species richness in northern hardwood forests. <i>Conservation Biology</i> , 2007 , 21, 997-1008	6	88
74	Understorey diversity in southern boreal forests is regulated by productivity and its indirect impacts on resource availability and heterogeneity. <i>Journal of Ecology</i> , 2012 , 100, 539-545	6	85
73	Age-class distribution and spatial patterns in an old-growth hemlock-hardwood forest. <i>Canadian Journal of Forest Research</i> , 1994 , 24, 1939-1947	1.9	80
72	Regional climate change adaptation strategies for biodiversity conservation in a midcontinental region of North America. <i>Biological Conservation</i> , 2009 , 142, 2012-2022	6.2	78
71	The unseen invaders: introduced earthworms as drivers of change in plant communities in North American forests (a meta-analysis). <i>Global Change Biology</i> , 2017 , 23, 1065-1074	11.4	77
70	Regional extent of an ecosystem engineer: earthworm invasion in northern hardwood forests 2007 , 17, 1666-77		75
69	Flowering phenology and height growth pattern are associated with maximum plant height, relative growth rate and stem tissue mass density in herbaceous grassland species. <i>Journal of Ecology</i> , 2011 , 99, 991-1000	6	74
68	Conservation implications of browsing by <i>Odocoileus virginianus</i> in remnant upland <i>Thuja occidentalis</i> forests. <i>Biological Conservation</i> , 2000 , 93, 359-369	6.2	71
67	Exotic earthworm effects on hardwood forest floor, nutrient availability and native plants: a mesocosm study. <i>Oecologia</i> , 2008 , 155, 509-18	2.9	69
66	Seed rain, safe sites, competing vegetation, and soil resources spatially structure white pine regeneration and recruitment. <i>Canadian Journal of Forest Research</i> , 2003 , 33, 1892-1904	1.9	66
65	Discordance in spatial patterns of white pine (<i>Pinus strobus</i>) size-classes in a patchy near-boreal forest. <i>Journal of Ecology</i> , 2001 , 89, 280-291	6	62
64	A Simulation of Equilibrium Diameter Distributions of Sugar Maple (<i>Acer saccharum</i>). <i>Bulletin of the Torrey Botanical Club</i> , 1984 , 111, 193		62

63	Experimental warming induces degradation of a Tibetan alpine meadow through trophic interactions. <i>Journal of Applied Ecology</i> , 2011 , 48, 659-667	5.8	61
62	Sapling growth responses to warmer temperatures flooled by browse pressure. <i>Global Change Biology</i> , 2012 , 18, 3455-3463	11.4	58
61	Estimating Gap Origin Probabilities for Canopy Trees. <i>Ecology</i> , 1988 , 69, 778-785	4.6	56
60	Interactive effects of global warming and global worming on the initial establishment of native and exotic herbaceous plant species. <i>Oikos</i> , 2012 , 121, 1121-1133	4	53
59	Hemiboreal forest: natural disturbances and the importance of ecosystem legacies to management. <i>Ecosphere</i> , 2017 , 8, e01706	3.1	53
58	Linking direct and indirect pathways mediating earthworms, deer, and understory composition in Great Lakes forests. <i>Biological Invasions</i> , 2013 , 15, 1057-1066	2.7	53
57	A Simulation of Landscape-Level Stand Dynamics in the Northern Hardwood Region. <i>Journal of Ecology</i> , 1991 , 79, 223	6	52
56	Promoting and maintaining diversity in contemporary hardwood forests: Confronting contemporary drivers of change and the loss of ecological memory. <i>Forest Ecology and Management</i> , 2018 , 421, 98-108	3.9	50
55	Allometric Equations for Estimation of Ash-free Dry Mass from Length Measurements for Selected European Earthworm Species (Lumbricidae) in the Western Great Lakes Region. <i>American Midland Naturalist</i> , 2004 , 151, 179-185	0.7	50
54	Fine-scale environmental variation and structure of understorey plant communities in two old-growth pine forests. <i>Journal of Ecology</i> , 2003 , 91, 283-293	6	50
53	Neighbourhood effects in forests: implications for within-stand patch structure. <i>Journal of Ecology</i> , 1998 , 86, 149-161	6	47
52	Climate and interrelated tree regeneration drivers in mixed temperate-boreal forests. <i>Landscape Ecology</i> , 2013 , 28, 149-159	4.3	45
51	Perspectives on development of definitions and values related to old-growth forests. <i>Environmental Reviews</i> , 2003 , 11, S9-S22	4.5	45
50	Trophic cascades, invasive species and body-size hierarchies interactively modulate climate change responses of ecotonal temperate-boreal forest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 2955-61	5.8	44
49	Litter decomposition in earthworm-invaded northern hardwood forests: Role of invasion degree and litter chemistry. <i>Ecoscience</i> , 2008 , 15, 536-544	1.1	42
48	Climate-change refugia in boreal North America: what, where, and for how long?. <i>Frontiers in Ecology and the Environment</i> , 2020 , 18, 261-270	5.5	41
47	Tree rings detect earthworm invasions and their effects in northern Hardwood forests. <i>Biological Invasions</i> , 2010 , 12, 1053-1066	2.7	41
46	Seedbed and moisture availability determine safe sites for early Thuja occidentalis (Cupressaceae) regeneration. <i>American Journal of Botany</i> , 2000 , 87, 1807-1814	2.7	40

45	The wave towards a new steady state: effects of earthworm invasion on soil microbial functions. <i>Biological Invasions</i> , 2011 , 13, 2191-2196	2.7	39
44	Neighborhood effects, disturbance, and succession in forests of the western Great Lakes Region1. <i>Ecoscience</i> , 1995 , 2, 148-158	1.1	38
43	Poor recruitment is changing the structure and species composition of an old-growth hemlock-hardwood forest. <i>Forest Ecology and Management</i> , 2011 , 261, 1998-2006	3.9	37
42	Leaf Litter Disappearance in Earthworm-Invaded Northern Hardwood Forests: Role of Tree Species and the Chemistry and Diversity of Litter. <i>Ecosystems</i> , 2012 , 15, 913-926	3.9	36
41	Multiple scale composition and spatial distribution patterns of the north-eastern Minnesota presettlement forest. <i>Journal of Ecology</i> , 2001 , 89, 538-554	6	36
40	Side-swiped: Ecological cascades emanating from earthworm invasion. <i>Frontiers in Ecology and the Environment</i> , 2019 , 17, 502-510	5.5	33
39	Patterns of plant community structure within and among primary and second-growth northern hardwood forest stands. <i>Forest Ecology and Management</i> , 2009 , 258, 2556-2568	3.9	33
38	Invasive earthworms interact with abiotic conditions to influence the invasion of common buckthorn (<i>Rhamnus cathartica</i>). <i>Oecologia</i> , 2015 , 178, 219-30	2.9	28
37	Modeling for ecosystem management in Minnesota pine forests. <i>Biological Conservation</i> , 1997 , 80, 313-324	3.4	28
36	Do vegetation boundaries display smooth or abrupt spatial transitions along environmental gradients? Evidence from the prairie-forest biome boundary of historic Minnesota, USA. <i>Journal of Vegetation Science</i> , 2013 , 24, 1129-1140	3.1	25
35	Vegetation controls vary across space and spatial scale in a historic grassland-forest biome boundary. <i>Ecography</i> , 2011 , 34, 402-414	6.5	25
34	Detecting wind disturbance severity and canopy heterogeneity in boreal forest by coupling high-spatial resolution satellite imagery and field data. <i>Remote Sensing of Environment</i> , 2010 , 114, 299-308	13.2	23
33	Wilderness Conservation in an Era of Global Warming and Invasive Species: A Case Study from Minnesota's Boundary Waters Canoe Area Wilderness. <i>Natural Areas Journal</i> , 2009 , 29, 385-393	0.8	22
32	Comparing the Importance of Seedbed and Canopy Type in the Restoration of Upland Thuja occidentalis Forests of Northeastern Minnesota. <i>Restoration Ecology</i> , 2001 , 9, 386-396	3.1	22
31	Earthworm invasion alters enchytraeid community composition and individual biomass in northern hardwood forests of North America. <i>Applied Soil Ecology</i> , 2014 , 83, 159-169	5	21
30	A Structural Alternative to Chronosequence Analysis for Uneven-Aged Northern Hardwood Forests. <i>Journal of Sustainable Forestry</i> , 1997 , 6, 347-366	1.2	21
29	Earthworm Invasions in Northern Hardwood Forests: a Rapid Assessment Method. <i>Natural Areas Journal</i> , 2013 , 33, 21-30	0.8	20
28	Impact of wind-induced microsites and disturbance severity on tree regeneration patterns: Results from the first post-storm decade. <i>Forest Ecology and Management</i> , 2015 , 348, 174-185	3.9	19

27	Fine-scale heterogeneity in overstory composition contributes to heterogeneity of wildfire severity in southern boreal forest. <i>Journal of Forest Research</i> , 2011 , 16, 203-214	1.4	17
26	The changing role of fire in mediating the relationships among oaks, grasslands, mesic temperate forests, and boreal forests in the Lake States. <i>Journal of Sustainable Forestry</i> , 2017 , 36, 421-432	1.2	16
25	Resident plant diversity and introduced earthworms have contrasting effects on the success of invasive plants. <i>Biological Invasions</i> , 2014 , 16, 2181-2193	2.7	16
24	Examining the effects of alternative management strategies on landscape-scale forest patterns in northeastern Minnesota using LANDIS. <i>Ecological Modelling</i> , 2004 , 180, 73-87	3	16
23	Imprints of management history on hemiboreal forest ecosystems in the Baltic States. <i>Ecosphere</i> , 2018 , 9, e02503	3.1	15
22	Site factors affecting black ash ring growth in northern Minnesota. <i>Forest Ecology and Management</i> , 2008 , 255, 3489-3493	3.9	11
21	Frost Crack Incidence in Northern Hardwood Forests of the Southern Boreal-North Temperate Transition Zone. <i>Northern Journal of Applied Forestry</i> , 2008 , 25, 133-138		9
20	Earthworm invasion causes declines across soil fauna size classes and biodiversity facets in northern North American forests. <i>Oikos</i> , 2021 , 130, 766-780	4	9
19	Terrestrial Ecosystem Impacts of Sulfide Mining: Scope of Issues for the Boundary Waters Canoe Area Wilderness, Minnesota, USA. <i>Forests</i> , 2019 , 10, 747	2.8	8
18	Monitoring disturbance intervals in forests: a case study of increasing forest disturbance in Minnesota. <i>Annals of Forest Science</i> , 2019 , 76, 1	3.1	8
17	Quantifying impacts of white-tailed deer (<i>Odocoileus virginianus</i> Zimmerman) browse using forest inventory and socio-environmental datasets. <i>PLoS ONE</i> , 2018 , 13, e0201334	3.7	8
16	Interspecific competition limits the realized niche of <i>Fraxinus nigra</i> along a waterlogging gradient. <i>Canadian Journal of Forest Research</i> , 2018 , 48, 1292-1301	1.9	7
15	Temperature and leaf nitrogen affect performance of plant species at range overlap. <i>Ecosphere</i> , 2015 , 6, art186	3.1	7
14	Are Secondary Forests Ready for Climate Change? It Depends on Magnitude of Climate Change, Landscape Diversity and Ecosystem Legacies. <i>Forests</i> , 2020 , 11, 965	2.8	6
13	Moss harvest truncates the successional development of epiphytic bryophytes in the Pacific Northwest 2008 , 18, 146-58		6
12	Earthworm invasion into previously earthworm-free temperate and boreal forests 2006 , 35-45		6
11	Natural Disturbances and Forest Management: Interacting Patterns on the Landscape 2018 , 221-248		5
10	Wildland Fire: Understanding and Maintaining an Ecological Baseline. <i>Current Forestry Reports</i> , 2017 , 3, 188-201	8	4

9	First records of <i>Parergodrillus heideri</i> (Annelida: "Polychaeta") from North America. <i>Zootaxa</i> , 2012 , 3498, 81	0.5	4
8	Seven Ways a Warming Climate Can Kill the Southern Boreal Forest. <i>Forests</i> , 2021 , 12, 560	2.8	4
7	Climate-Biome Envelope Shifts Create Enormous Challenges and Novel Opportunities for Conservation. <i>Forests</i> , 2020 , 11, 1015	2.8	3
6	Boreal and Taiga Biome 2020 , 103-115		2
5	The Possibility of Using the Chapman-Richards and Nlund Functions to Model Height-Diameter Relationships in Hemiboreal Old-Growth Forest in Estonia. <i>Forests</i> , 2021 , 12, 184	2.8	1
4	White-tailed deer herbivory impacts on tree seedling and sapling abundance in the Lake States Region of the USA. <i>Annals of Forest Science</i> , 2021 , 78, 1	3.1	0
3	Ural Mountains Taiga 2021 ,		0
2	How to Become a Forest Ecologist In Only 40 Years. <i>Bulletin of the Ecological Society of America</i> , 2014 , 95, 207-210	0.7	
1	History and Future of Fire in Hardwood and Conifer Forests of the Great Lakes-Northeastern Forest Region, USA. <i>Managing Forest Ecosystems</i> , 2021 , 243-285	0.7	