

Lars Vesterdal

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

10,021
citations

47409

49
h-index

42259

96
g-index

123
all docs

123
docs citations

123
times ranked

10109
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulating tree growth response to climate change in structurally diverse oak and beech forests. <i>Science of the Total Environment</i> , 2022, 806, 150422.	3.9	15
2	Litter quality, mycorrhizal association, and soil properties regulate effects of tree species on the soil fauna community. <i>Geoderma</i> , 2022, 407, 115570.	2.3	34
3	Climatic conditions, not above- and belowground resource availability and uptake capacity, mediate tree diversity effects on productivity and stability. <i>Science of the Total Environment</i> , 2022, 812, 152560.	3.9	8
4	Forest tree growth is linked to mycorrhizal fungal composition and function across Europe. <i>ISME Journal</i> , 2022, 16, 1327-1336.	4.4	62
5	Physiological and climate controls on foliar mercury uptake by European tree species. <i>Biogeosciences</i> , 2022, 19, 1335-1353.	1.3	18
6	Ecoenzymatic stoichiometry can reflect microbial resource limitation, substrate quality, or both in forest soils. <i>Soil Biology and Biochemistry</i> , 2022, 167, 108613.	4.2	38
7	Do tree species affect decadal changes in soil organic carbon and total nitrogen stocks in Danish common garden experiments?. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	7
8	Roots and rhizospheric soil microbial community responses to tree species mixtures. <i>Applied Soil Ecology</i> , 2022, 176, 104509.	2.1	1
9	Effects of common European tree species on soil microbial resource limitation, microbial communities and soil carbon. <i>Soil Biology and Biochemistry</i> , 2022, 172, 108754.	4.2	16
10	Tree species identity is the predominant modulator of the effects of soil fauna on leaf litter decomposition. <i>Forest Ecology and Management</i> , 2022, 520, 120396.	1.4	9
11	Effects of Litter Quality Diminish and Effects of Vegetation Type Develop During Litter Decomposition of Two Shrub Species in an Alpine Treeline Ecotone. <i>Ecosystems</i> , 2021, 24, 197-210.	1.6	11
12	Effects of intensive biomass harvesting on forest soils in the Nordic countries and the UK: A meta-analysis. <i>Forest Ecology and Management</i> , 2021, 482, 118877.	1.4	26
13	Old-growth forest carbon sinks overestimated. <i>Nature</i> , 2021, 591, E21-E23.	13.7	65
14	Pedogenic Threshold in Acidity Explains Context-Dependent Tree Species Effects on Soil Carbon. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	4
15	Above- and below-ground complementarity rather than selection drive tree diversity-productivity relationships in European forests. <i>Functional Ecology</i> , 2021, 35, 1756-1767.	1.7	15
16	Highly comparable metabarcoding results from MGI-Tech and Illumina sequencing platforms. <i>PeerJ</i> , 2021, 9, e12254.	0.9	13
17	Decomposition and transformations along the continuum from litter to soil organic matter in forest soils. <i>Forest Ecology and Management</i> , 2021, 498, 119522.	1.4	96
18	A High-Resolution Digital Elevation Model in Combination With Water Table Depth and Continuous Soil Redox Potential Measurements Explain Soil Respiration and Soil Carbon Stocks at the ICOS Site SorÅ, <i>Frontiers in Forests and Global Change</i> , 2021, 3, .	1.0	1

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19	Tree diversity is key for promoting the diversity and abundance of forest-associated taxa in Europe. <i>Oikos</i> , 2020, 129, 133-146.	1.2	80
20	Nitrogen deposition is the most important environmental driver of growth of pure, even-aged and managed European forests. <i>Forest Ecology and Management</i> , 2020, 458, 117762.	1.4	102
21	Mycorrhizal association of common European tree species shapes biomass and metabolic activity of bacterial and fungal communities in soil. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107933.	4.2	31
22	Tree species effects on topsoil carbon stock and concentration are mediated by tree species type, mycorrhizal association, and N-fixing ability at the global scale. <i>Forest Ecology and Management</i> , 2020, 478, 118510.	1.4	37
23	Positive feedback loop between earthworms, humus form and soil pH reinforces earthworm abundance in European forests. <i>Functional Ecology</i> , 2020, 34, 2598-2610.	1.7	24
24	Tamm Review: Influence of forest management activities on soil organic carbon stocks: A knowledge synthesis. <i>Forest Ecology and Management</i> , 2020, 466, 118127.	1.4	327
25	Ecosystem carbon stocks and their temporal resilience in a semi-natural beech-dominated forest. <i>Forest Ecology and Management</i> , 2019, 447, 67-76.	1.4	25
26	Belowground Biodiversity Relates Positively to Ecosystem Services of European Forests. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	24
27	Responses of nitrogen concentrations and pools to multiple environmental change drivers: A meta-analysis across terrestrial ecosystems. <i>Global Ecology and Biogeography</i> , 2019, 28, 690-724.	2.7	43
28	Reviews and syntheses: Greenhouse gas exchange data from drained organic forest soils – a review of current approaches and recommendations for future research. <i>Biogeosciences</i> , 2019, 16, 4687-4703.	1.3	13
29	Identifying the tree species compositions that maximize ecosystem functioning in European forests. <i>Journal of Applied Ecology</i> , 2019, 56, 733-744.	1.9	58
30	Tree identity rather than tree diversity drives earthworm communities in European forests. <i>Pedobiologia</i> , 2018, 67, 16-25.	0.5	18
31	Quantifying Carbon and Nutrient Input From Litterfall in European Forests Using Field Observations and Modeling. <i>Global Biogeochemical Cycles</i> , 2018, 32, 784-798.	1.9	77
32	The response of soil solution chemistry in European forests to decreasing acid deposition. <i>Global Change Biology</i> , 2018, 24, 3603-3619.	4.2	77
33	Soil nitrogen explanatory factors across a range of forest ecosystems and climatic conditions in Italy. <i>Forest Ecology and Management</i> , 2018, 408, 25-35.	1.4	10
34	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018, 21, 31-42.	3.0	74
35	Context-dependent tree species effects on soil nitrogen transformations and related microbial functional genes. <i>Biogeochemistry</i> , 2018, 140, 145-160.	1.7	21
36	Environment and host as large-scale controls of ectomycorrhizal fungi. <i>Nature</i> , 2018, 558, 243-248.	13.7	282

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37	Tree species diversity affects decomposition through modified microenvironmental conditions across European forests. <i>New Phytologist</i> , 2017, 214, 1281-1293.	3.5	112
38	Accumulation of soil organic carbon after cropland conversion to short-rotation willow and poplar. <i>GCB Bioenergy</i> , 2017, 9, 1390-1401.	2.5	33
39	Tree species and time since afforestation drive soil C and N mineralization on former cropland. <i>Geoderma</i> , 2017, 305, 153-161.	2.3	32
40	Tree species functional group is a more important driver of soil properties than tree species diversity across major European forest types. <i>Functional Ecology</i> , 2017, 31, 1153-1162.	1.7	72
41	Microbial Communities, Functional Genes, and Nitrogen Cycling Processes as Affected by Tree Species. , 2017, , 209-221.		0
42	Conifer proportion explains fine root biomass more than tree species diversity and site factors in major European forest types. <i>Forest Ecology and Management</i> , 2017, 406, 330-350.	1.4	34
43	Calcium in decomposing foliar litter – A synthesis for boreal and temperate coniferous forests. <i>Forest Ecology and Management</i> , 2017, 403, 137-144.	1.4	18
44	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. <i>Ecology Letters</i> , 2017, 20, 1414-1426.	3.0	244
45	Stability of buried carbon in deep-ploughed forest and cropland soils - implications for carbon stocks. <i>Scientific Reports</i> , 2017, 7, 5511.	1.6	35
46	Tree Species Identity Shapes Earthworm Communities. <i>Forests</i> , 2017, 8, 85.	0.9	60
47	Mixed-Species Effects on Soil C and N Stocks, C/N Ratio and pH Using a Transboundary Approach in Adjacent Common Garden Douglas-Fir and Beech Stands. <i>Forests</i> , 2017, 8, 95.	0.9	17
48	Trends in soil solution dissolved organic carbon (DOC) concentrations across European forests. <i>Biogeosciences</i> , 2016, 13, 5567-5585.	1.3	23
49	Jack-of-all-trades effects drive biodiversity-ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , 2016, 7, 11109.	5.8	185
50	Is Tree Species Diversity or Species Identity the More Important Driver of Soil Carbon Stocks, C/N Ratio, and pH?. <i>Ecosystems</i> , 2016, 19, 645-660.	1.6	141
51	Linking microbial communities, functional genes and nitrogen-cycling processes in forest floors under four tree species. <i>Soil Biology and Biochemistry</i> , 2016, 103, 181-191.	4.2	57
52	Drivers of earthworm incidence and abundance across European forests. <i>Soil Biology and Biochemistry</i> , 2016, 99, 167-178.	4.2	53
53	Biotic homogenization can decrease landscape-scale forest multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3557-3562.	3.3	196
54	Manganese in the litter fall-forest floor continuum of boreal and temperate pine and spruce forest ecosystems – A review. <i>Forest Ecology and Management</i> , 2015, 358, 248-260.	1.4	58

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55	Soil carbon stock change in the forests of Denmark between 1990 and 2008. <i>Geoderma Regional</i> , 2015, 5, 169-180.	0.9	18
56	Exceedance of critical loads and of critical limits impacts tree nutrition across Europe. <i>Annals of Forest Science</i> , 2015, 72, 929-939.	0.8	39
57	Influence of different tree-harvesting intensities on forest soil carbon stocks in boreal and northern temperate forest ecosystems. <i>Forest Ecology and Management</i> , 2015, 351, 9-19.	1.4	97
58	Carbohydrates and thermal properties indicate a decrease in stable aggregate carbon following forest colonization of mountain grassland. <i>Soil Biology and Biochemistry</i> , 2015, 86, 135-145.	4.2	8
59	Benchmark values for forest soil carbon stocks in Europe: Results from a large scale forest soil survey. <i>Geoderma</i> , 2015, 251-252, 33-46.	2.3	101
60	Influences of evergreen gymnosperm and deciduous angiosperm tree species on the functioning of temperate and boreal forests. <i>Biological Reviews</i> , 2015, 90, 444-466.	4.7	267
61	Does species richness affect fine root biomass and production in young forest plantations?. <i>Oecologia</i> , 2015, 177, 581-594.	0.9	61
62	Effects of forest expansion on mountain grassland: changes within soil organic carbon fractions. <i>Plant and Soil</i> , 2014, 385, 373-387.	1.8	41
63	Afforestation effects on <sc>SOC</sc> in former cropland: oak and spruce chronosequences resampled after 13 years. <i>Global Change Biology</i> , 2014, 20, 2938-2952.	4.2	50
64	Plant movements and climate warming: intraspecific variation in growth responses to nonlocal soils. <i>New Phytologist</i> , 2014, 202, 431-441.	3.5	29
65	Soil carbon stock change following afforestation in Northern Europe: a meta-analysis. <i>Global Change Biology</i> , 2014, 20, 2393-2405.	4.2	172
66	Tree species is the major factor explaining C:N ratios in European forest soils. <i>Forest Ecology and Management</i> , 2014, 311, 3-16.	1.4	207
67	Detection of temporal trends in atmospheric deposition of inorganic nitrogen and sulphate to forests in Europe. <i>Atmospheric Environment</i> , 2014, 95, 363-374.	1.9	144
68	Quantification and valuation of ecosystem services in diverse production systems for informed decision-making. <i>Environmental Science and Policy</i> , 2014, 39, 139-149.	2.4	39
69	Changes in soil organic carbon and nitrogen following forest expansion on grassland in the Southern Alps. <i>Forest Ecology and Management</i> , 2014, 328, 103-116.	1.4	43
70	Conversion of cropland to forest increases soil CH ₄ oxidation and abundance of CH ₄ oxidizing bacteria with stand age. <i>Applied Soil Ecology</i> , 2014, 79, 49-58.	2.1	27
71	The natural abundance of ¹⁵ N in litter and soil profiles under six temperate tree species: N cycling depends on tree species traits and site fertility. <i>Plant and Soil</i> , 2013, 368, 375-392.	1.8	30
72	Manganese dynamics in decomposing needle and leaf litter – a synthesis. <i>Canadian Journal of Forest Research</i> , 2013, 43, 1127-1136.	0.8	30

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73	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 281-291.	1.1	179
74	Soil carbon accumulation and nitrogen retention traits of four tree species grown in common gardens. <i>Forest Ecology and Management</i> , 2013, 309, 47-57.	1.4	64
75	Tree species effects on soils in temperate and boreal forests: Emerging themes and research needs. <i>Forest Ecology and Management</i> , 2013, 309, 1-3.	1.4	55
76	Do tree species influence soil carbon stocks in temperate and boreal forests?. <i>Forest Ecology and Management</i> , 2013, 309, 4-18.	1.4	296
77	Influence of hydromorphic soil conditions on greenhouse gas emissions and soil carbon stocks in a Danish temperate forest. <i>Forest Ecology and Management</i> , 2012, 284, 185-195.	1.4	29
78	Soil respiration and rates of soil carbon turnover differ among six common European tree species. <i>Forest Ecology and Management</i> , 2012, 264, 185-196.	1.4	219
79	Four decades of post-agricultural forest development have caused major redistributions of soil phosphorus fractions. <i>Oecologia</i> , 2012, 169, 221-234.	0.9	75
80	Dramatic changes in ectomycorrhizal community composition, root tip abundance and mycelial production along a stand-scale nitrogen deposition gradient. <i>New Phytologist</i> , 2012, 194, 278-286.	3.5	149
81	Tree species traits cause divergence in soil acidification during four decades of postagricultural forest development. <i>Global Change Biology</i> , 2012, 18, 1127-1140.	4.2	124
82	Nitrous oxide and methane exchange in two small temperate forest catchments—effects of hydrological gradients and implications for global warming potentials of forest soils. <i>Biogeochemistry</i> , 2012, 107, 437-454.	1.7	42
83	Temporal dynamics of soil organic carbon after land-use change in the temperate zone - carbon response functions as a model approach. <i>Global Change Biology</i> , 2011, 17, 2415-2427.	4.2	645
84	Role of six European tree species and land-use legacy for nitrogen and water budgets in forests. <i>Global Change Biology</i> , 2010, 16, 2224-2240.	4.2	32
85	A leap forward in geographic scale for forest ectomycorrhizal fungi. <i>Annals of Forest Science</i> , 2010, 67, 200-200.	0.8	8
86	Factors influencing limit values for pine needle litter decomposition: a synthesis for boreal and temperate pine forest systems. <i>Biogeochemistry</i> , 2010, 100, 57-73.	1.7	157
87	Water balance in afforestation chronosequences of common oak and Norway spruce on former arable land in Denmark and southern Sweden. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 196-207.	1.9	32
88	Litterfall and nutrient return in five tree species in a common garden experiment. <i>Forest Ecology and Management</i> , 2009, 257, 2133-2144.	1.4	129
89	Do indicators of nitrogen retention and leaching differ between coniferous and broadleaved forests in Denmark?. <i>Forest Ecology and Management</i> , 2009, 258, 1137-1146.	1.4	75
90	Carbon and nitrogen in forest floor and mineral soil under six common European tree species. <i>Forest Ecology and Management</i> , 2008, 255, 35-48.	1.4	438

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91	How strongly can forest management influence soil carbon sequestration?. <i>Geoderma</i> , 2007, 137, 253-268.	2.3	1,076
92	Nitrate leaching from three afforestation chronosequences on former arable land in Denmark. <i>Global Change Biology</i> , 2007, 13, 1250-1264.	4.2	45
93	Are Indicators for Critical Load Exceedance Related to Forest Condition?. <i>Water, Air, and Soil Pollution</i> , 2007, 183, 293-308.	1.1	20
94	Carbon sequestration rates in Swedish forest soils – a comparison of three approaches. <i>Silva Fennica</i> , 2007, 41, .	0.5	11
95	Distribution of biomass and carbon in even-aged stands of Norway spruce (<i>Picea abies</i> (L.) Karst.): A case study on spacing and thinning effects in northern Denmark. <i>Scandinavian Journal of Forest Research</i> , 2006, 21, 470-488.	0.5	44
96	Gap formation in Danish beech (<i>Fagus sylvatica</i>) forests of low management intensity: soil moisture and nitrate in soil solution. <i>European Journal of Forest Research</i> , 2006, 125, 139-150.	1.1	42
97	Losses of nitrate from gaps of different sizes in a managed beech (<i>Fagus sylvatica</i>) forest. <i>Canadian Journal of Forest Research</i> , 2005, 35, 308-319.	0.8	33
98	Soil carbon stocks, mineralization rates, and CO ₂ effluxes under 10 tree species on contrasting soil types. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1277-1284.	0.8	54
99	Influence of initial chemistry on decomposition of foliar litter in contrasting forest types in British Columbia. <i>Canadian Journal of Forest Research</i> , 2004, 34, 1714-1729.	0.8	86
100	Title is missing!. <i>Plant and Soil</i> , 2003, 249, 319-330.	1.8	115
101	Soil carbon stores in Nordic well-drained forest soils-relationships with climate and texture class. <i>Global Change Biology</i> , 2003, 9, 358-370.	4.2	215
102	Carbon and Nitrogen in Danish Forest Soils – Contents and Distribution Determined by Soil Order. <i>Soil Science Society of America Journal</i> , 2003, 67, 335-343.	1.2	49
103	Carbon and Nitrogen in Danish Forest Soils – Contents and Distribution Determined by Soil Order. <i>Soil Science Society of America Journal</i> , 2003, 67, 335.	1.2	27
104	Availability of nitrogen and phosphorus in Norway spruce forest floors fertilized with nitrogen and other essential nutrients. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1243-1251.	4.2	14
105	Change in soil organic carbon following afforestation of former arable land. <i>Forest Ecology and Management</i> , 2002, 169, 137-147.	1.4	387
106	NITROGEN TURNOVER IN FOREST FLOORS OF COASTAL DOUGLAS-FIR AT SITES DIFFERING IN SOIL NITROGEN CAPITAL. <i>Ecology</i> , 2000, 81, 1878-1886.	1.5	74
107	Influence of soil type on mass loss and nutrient release from decomposing foliage litter of beech and Norway spruce. <i>Canadian Journal of Forest Research</i> , 1999, 29, 95-105.	0.8	87
108	Potential microbial nitrogen and phosphorus availability in forest floors. <i>Soil Biology and Biochemistry</i> , 1998, 30, 2031-2041.	4.2	14

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109	Forest floor chemistry under seven tree species along a soil fertility gradient. Canadian Journal of Forest Research, 1998, 28, 1636-1647.	0.8	148
110	Soil respiration profiles and protozoan enumeration agree as microbial growth indicators. Soil Biology and Biochemistry, 1996, 28, 865-868.	4.2	26
111	Effects of thinning and soil properties on accumulation of carbon, nitrogen and phosphorus in the forest floor of Norway spruce stands. Forest Ecology and Management, 1995, 77, 1-10.	1.4	111
112	Carbon sequestration and forest management.. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , .	0.6	31