

Mats Varik

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5570041/publications.pdf>

Version: 2024-02-01

32
papers

796
citations

516710

16
h-index

501196

28
g-index

32
all docs

32
docs citations

32
times ranked

882
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass production and carbon sequestration in a fertile silver birch (<i>Betula pendula</i> Roth) forest chronosequence. <i>Forest Ecology and Management</i> , 2012, 267, 117-126.	3.2	101
2	Adaptive root foraging strategies along a boreal-temperate forest gradient. <i>New Phytologist</i> , 2017, 215, 977-991.	7.3	100
3	Carbon and nitrogen accumulation in belowground tree biomass in a chronosequence of silver birch stands. <i>Forest Ecology and Management</i> , 2013, 302, 62-70.	3.2	60
4	The dynamics of biomass production, carbon and nitrogen accumulation in grey alder (<i>Alnus incana</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.2	48
5	Ecosystems carbon budgets of differently aged downy birch stands growing on well-drained peatlands. <i>Forest Ecology and Management</i> , 2017, 399, 82-93.	3.2	40
6	The effect of elevated air humidity on young silver birch and hybrid aspen biomass allocation and accumulation - Acclimation mechanisms and capacity. <i>Forest Ecology and Management</i> , 2014, 330, 252-260.	3.2	38
7	Long-term study of above- and below-ground biomass production in relation to nitrogen and carbon accumulation dynamics in a grey alder (<i>Alnus incana</i> (L.) Moench) plantation on former agricultural land. <i>European Journal of Forest Research</i> , 2013, 132, 737-749.	2.5	34
8	Biomass production potential of grey alder (<i>Alnus incana</i> (L.) Moench.) in Scandinavia and Eastern Europe: A review. <i>Biomass and Bioenergy</i> , 2012, 45, 11-26.	5.7	33
9	Carbon budgets in fertile silver birch (<i>Betula pendula</i> Roth) chronosequence stands. <i>Ecological Engineering</i> , 2015, 77, 284-296.	3.6	33
10	Biomass resource and environmental effects of Norway spruce (<i>Picea abies</i>) stump harvesting: An Estonian case study. <i>Forest Ecology and Management</i> , 2015, 335, 207-215.	3.2	32
11	Tree age effect on fine-root and leaf morphology in a silver birch forest chronosequence. <i>European Journal of Forest Research</i> , 2013, 132, 219-230.	2.5	29
12	The effects of elevated atmospheric humidity on soil respiration components in a young silver birch forest. <i>Agricultural and Forest Meteorology</i> , 2014, 194, 167-174.	4.8	26
13	Carbon budgets in fertile grey alder (<i>Alnus incana</i> (L.) Moench.) stands of different ages. <i>Forest Ecology and Management</i> , 2017, 396, 55-67.	3.2	23
14	The carbon balance of a six-year-old Scots pine (<i>Pinus sylvestris</i> L.) ecosystem estimated by different methods. <i>Forest Ecology and Management</i> , 2019, 433, 248-262.	3.2	20
15	Biomass production and nitrogen balance of naturally afforested silver birch (<i>Betula) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.2	20
16	The effects of clear-cut on net nitrogen mineralization and nitrogen losses in a grey alder stand. <i>Ecological Engineering</i> , 2015, 85, 237-246.	3.6	18
17	Towards complete and harmonized assessment of soil carbon stocks and balance in forests: The ability of the Yasso07 model across a wide gradient of climatic and forest conditions in Europe. <i>Science of the Total Environment</i> , 2017, 599-600, 1171-1180.	8.0	18
18	Variation in annual carbon fluxes affecting the SOC pool in hemiboreal coniferous forests in Estonia. <i>Forest Ecology and Management</i> , 2019, 433, 419-430.	3.2	17

#	ARTICLE	IF	CITATIONS
19	Short-term effect of thinning on the carbon budget of young and middle-aged Scots pine (<i>Pinus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 16	3.2	16
20	The dynamics of the carbon storage and fluxes in Scots pine (<i>Pinus sylvestris</i>) chronosequence. Science of the Total Environment, 2022, 817, 152973.	8.0	16
21	The effect of Norway spruce stump harvesting on net nitrogen mineralization and nutrient leaching. Forest Ecology and Management, 2016, 377, 150-160.	3.2	13
22	Short-term effect of thinning on the carbon budget of young and middle-aged silver birch (<i>Betula</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.2	13
23	Elevated atmospheric humidity shapes the carbon cycle of a silver birch forest ecosystem: A FAHM study. Science of the Total Environment, 2019, 661, 441-448.	8.0	10
24	The effect of thinning on annual net nitrogen mineralization and nitrogen leaching fluxes in silver birch and Scots pine stands. Scandinavian Journal of Forest Research, 2019, 34, 718-731.	1.4	9
25	Annual net nitrogen mineralization and litter flux in well-drained downy birch, Norway spruce and Scots pine forest ecosystems. Silva Fennica, 2018, 52, .	1.3	9
26	The effect of stump harvesting on tree growth and the infection of root rot in young Norway spruce stands in hemiboreal Estonia. Forest Ecology and Management, 2020, 475, 118425.	3.2	7
27	Long-term dynamics of leaf and root decomposition and nitrogen release in a grey alder (<i>Alnus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 4 Forest Research, 2019, 34, 12-25.	1.4	4
28	Litterfall dynamics in Scots pine (<i>Pinus sylvestris</i>), Norway spruce (<i>Picea abies</i>) and birch (<i>Betula</i>) stands in Estonia. Forest Ecology and Management, 2022, 520, 120417.	3.2	4
29	Biomass production and carbon accumulation in silver birch stands in <i>Oxalis</i> site type. Forestry Studies, 2009, 51, 5-16.	0.2	2
30	The growth and production of some fast growing deciduous tree species stands on abandoned agricultural land. Forestry Studies, 2010, 52, 18-29.	0.2	1
31	Soil respiration and nitrogen leaching decreased in grey alder (<i>Alnus incana</i> (L.) Moench) coppice after clear-cut. Scandinavian Journal of Forest Research, 2019, 34, 445-457.	1.4	1
32	Reply to A. L�uhmus, 2022 letter to the editor regarding Uri et al. (2022): The dynamics of the carbon storage and fluxes in Scots pine (<i>Pinus sylvestris</i>) chronosequence. Science of the Total Environment, 2022, 844, 156847.	8.0	1