

Mats Varik

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

796
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516710

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32
docs citations

32
times ranked

882
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamics of the carbon storage and fluxes in Scots pine (<i>Pinus sylvestris</i>) chronosequence. <i>Science of the Total Environment</i> , 2022, 817, 152973.	8.0	16
2	Litterfall dynamics in Scots pine (<i>Pinus sylvestris</i>), Norway spruce (<i>Picea abies</i>) and birch (<i>Betula</i>) stands in Estonia. <i>Forest Ecology and Management</i> , 2022, 520, 120417.	3.2	4
3	Reply to A. Lõhmus, 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. <i>Science of the Total Environment</i> , 2022, 844, 156847.	8.0	1
4	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
5	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 11	3.2	16
6	The effect of stump harvesting on tree growth and the infection of root rot in young Norway spruce stands in hemiboreal Estonia. <i>Forest Ecology and Management</i> , 2020, 475, 118425.	3.2	7
7	Elevated atmospheric humidity shapes the carbon cycle of a silver birch forest ecosystem: A FAHM study. <i>Science of the Total Environment</i> , 2019, 661, 441-448.	8.0	10
8	Soil respiration and nitrogen leaching decreased in grey alder (<i>Alnus incana</i> (L.) Moench) coppice after clear-cut. <i>Scandinavian Journal of Forest Research</i> , 2019, 34, 445-457.	1.4	1
9	The effect of thinning on annual net nitrogen mineralization and nitrogen leaching fluxes in silver birch and Scots pine stands. <i>Scandinavian Journal of Forest Research</i> , 2019, 34, 718-731.	1.4	9
10	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
11	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
12	Long-term dynamics of leaf and root decomposition and nitrogen release in a grey alder (<i>Alnus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Forest Research</i> , 2019, 34, 12-25.	1.4	4
13	Annual net nitrogen mineralization and litter flux in well-drained downy birch, Norway spruce and Scots pine forest ecosystems. <i>Silva Fennica</i> , 2018, 52, .	1.3	9
14	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
15	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
16	Adaptive root foraging strategies along a boreal-temperate forest gradient. <i>New Phytologist</i> , 2017, 215, 977-991.	7.3	100
17	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
18	The effect of Norway spruce stump harvesting on net nitrogen mineralization and nutrient leaching. <i>Forest Ecology and Management</i> , 2016, 377, 150-160.	3.2	13

#	ARTICLE	IF	CITATIONS
19	Biomass production and nitrogen balance of naturally afforested silver birch (<i>Betula) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	20
20	The effects of clear-cut on net nitrogen mineralization and nitrogen losses in a grey alder stand. Ecological Engineering, 2015, 85, 237-246.	3.6	18
21	Carbon budgets in fertile silver birch (<i>Betula pendula</i> Roth) chronosequence stands. Ecological Engineering, 2015, 77, 284-296.	3.6	33
22	Biomass resource and environmental effects of Norway spruce (<i>Picea abies</i>) stump harvesting: An Estonian case study. Forest Ecology and Management, 2015, 335, 207-215.	3.2	32
23	The effect of elevated air humidity on young silver birch and hybrid aspen biomass allocation and accumulation â€œ Acclimation mechanisms and capacity. Forest Ecology and Management, 2014, 330, 252-260.	3.2	38
24	The effects of elevated atmospheric humidity on soil respiration components in a young silver birch forest. Agricultural and Forest Meteorology, 2014, 194, 167-174.	4.8	26
25	The dynamics of biomass production, carbon and nitrogen accumulation in grey alder (<i>Alnus incana</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.2	248
26	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. European Journal of Forest Research, 2013, 132, 737-749.	2.5	34
27	Carbon and nitrogen accumulation in belowground tree biomass in a chronosequence of silver birch stands. Forest Ecology and Management, 2013, 302, 62-70.	3.2	60
28	Tree age effect on fine-root and leaf morphology in a silver birch forest chronosequence. European Journal of Forest Research, 2013, 132, 219-230.	2.5	29
29	Biomass production and carbon sequestration in a fertile silver birch (<i>Betula pendula</i> Roth) forest chronosequence. Forest Ecology and Management, 2012, 267, 117-126.	3.2	101
30	Biomass production potential of grey alder (<i>Alnus incana</i> (L.) Moench.) in Scandinavia and Eastern Europe: A review. Biomass and Bioenergy, 2012, 45, 11-26.	5.7	33
31	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
32	Biomass production and carbon accumulation in silver birch stands in <i>Oxalis</i> site type. Forestry Studies, 2009, 51, 5-16.	0.2	2