

# Arne Nothdurft

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,123  
citations

471371

17  
h-index

414303

32  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1190  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Robust Method for Detecting Wind-Fallen Stems from Aerial RGB Images Using a Line Segment Detection Algorithm. <i>Forests</i> , 2022, 13, 90.	0.9	0
2	Capacity Planning of Timber Harvesting in Windthrow Areas. <i>Forests</i> , 2022, 13, 350.	0.9	1
3	Accuracy and Precision of Stem Cross-Section Modeling in 3D Point Clouds from TLS and Caliper Measurements for Basal Area Estimation. <i>Remote Sensing</i> , 2022, 14, 1923.	1.8	6
4	The distribution of carbon stocks between tree woody biomass and soil differs between Scots pine and broadleaved species (beech, oak) in European forests. <i>European Journal of Forest Research</i> , 2022, 141, 467-480.	1.1	5
5	With increasing site quality asymmetric competition and mortality reduces Scots pine ( <i>Pinus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.4	11
6	Species stratification and weather conditions drive tree growth in Scots pine and Norway spruce mixed stands along Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118697.	1.4	15
7	Tree species identity drives soil organic carbon storage more than species mixing in major two-species mixtures (pine, oak, beech) in Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118752.	1.4	20
8	Mixing effects on Scots pine ( <i>Pinus sylvestris</i> L.) and Norway spruce ( <i>Picea abies</i> (L.) Karst.) productivity along a climatic gradient across Europe. <i>Forest Ecology and Management</i> , 2021, 482, 118834.	1.4	23
9	The greater resilience of mixed forests to drought mainly depends on their composition: Analysis along a climate gradient across Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118687.	1.4	104
10	Measurement of Forest Inventory Parameters with Apple iPad Pro and Integrated LiDAR Technology. <i>Remote Sensing</i> , 2021, 13, 3129.	1.8	55
11	Estimating timber volume loss due to storm damage in Carinthia, Austria, using ALS/TLS and spatial regression models. <i>Forest Ecology and Management</i> , 2021, 502, 119714.	1.4	4
12	Stand growth and structure of mixed-species and monospecific stands of Scots pine ( <i>Pinus sylvestris</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T Europe. <i>European Journal of Forest Research</i> , 2020, 139, 349-367.	1.1	59
13	Climate sensitivity and resistance under pure- and mixed-stand scenarios in Lower Austria evaluated with distributed lag models and penalized regression splines for tree-ring time series. <i>European Journal of Forest Research</i> , 2020, 139, 189-211.	1.1	14
14	Seasonal, medium-term and daily patterns of tree diameter growth in response to climate. <i>Forestry</i> , 2020, 93, 133-149.	1.2	5
15	Climate sensitive single tree growth modeling using a hierarchical Bayes approach and integrated nested Laplace approximations (INLA) for a distributed lag model. <i>Forest Ecology and Management</i> , 2020, 478, 118497.	1.4	6
16	Comparison of 3D Point Clouds Obtained by Terrestrial Laser Scanning and Personal Laser Scanning on Forest Inventory Sample Plots. <i>Data</i> , 2020, 5, 103.	1.2	19
17	Towards an Optimization of Sample Plot Size and Scanner Position Layout for Terrestrial Laser Scanning in Multi-Scan Mode. <i>Forests</i> , 2020, 11, 1099.	0.9	4
18	Forest Inventory with Long Range and High-Speed Personal Laser Scanning (PLS) and Simultaneous Localization and Mapping (SLAM) Technology. <i>Remote Sensing</i> , 2020, 12, 1509.	1.8	67

#	ARTICLE	IF	CITATIONS
19	Species mixing reduces drought susceptibility of Scots pine ( <i>Pinus sylvestris</i> L.) and oak ( <i>Quercus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlook Forest Ecology and Management, 2020, 461, 117908.	1.4	65
20	Influence of Scanner Position and Plot Size on the Accuracy of Tree Detection and Diameter Estimation Using Terrestrial Laser Scanning on Forest Inventory Plots. Remote Sensing, 2019, 11, 1602.	1.8	43
21	Can trees at high elevations compensate for growth reductions at low elevations due to climate warming?. Canadian Journal of Forest Research, 2018, 48, 650-662.	0.8	15
22	Automatic Assessment of Crown Projection Area on Single Trees and Stand-Level, Based on Three-Dimensional Point Clouds Derived from Terrestrial Laser-Scanning. Forests, 2018, 9, 237.	0.9	20
23	Climate-sensitive radial increment model of Norway spruce in Tyrol based on a distributed lag model with penalized splines for year-ring time series. Canadian Journal of Forest Research, 2018, 48, 930-941.	0.8	8
24	A Flexible Heightâ€“Diameter Model for Tree Height Imputation on Forest Inventory Sample Plots Using Repeated Measures from the Past. Forests, 2018, 9, 368.	0.9	11
25	Automatic Mapping of Forest Stands Based on Three-Dimensional Point Clouds Derived from Terrestrial Laser-Scanning. Forests, 2017, 8, 265.	0.9	39
26	Forest restoration with <i>Betula</i> ssp. and <i>Populus</i> ssp. nurse crops increases productivity and soil fertility. Forest Ecology and Management, 2015, 339, 57-70.	1.4	24
27	Spatio-temporal prediction of tree mortality based on long-term sample plots, climate change scenarios and parametric frailty modeling. Forest Ecology and Management, 2013, 291, 43-54.	1.4	27
28	Correcting the nondetection bias of angle count sampling. Canadian Journal of Forest Research, 2013, 43, 344-354.	0.8	12
29	Allometries for Widely Spaced <i>Populus</i> ssp. and <i>Betula</i> ssp. in Nurse Crop Systems. Forests, 2013, 4, 1003-1031.	0.9	13
30	Modelling stratified forest attributes using optical/LiDAR features in a central European landscape. International Journal of Digital Earth, 2012, 5, 106-132.	1.6	14
31	Spatio-temporal prediction of site index based on forest inventories and climate change scenarios. Forest Ecology and Management, 2012, 279, 97-111.	1.4	71
32	Spatial modeling of habitat trees based on line transect sampling and point pattern reconstruction. Canadian Journal of Forest Research, 2011, 41, 715-727.	0.8	8
33	Comparison of nearest neighbour approaches for small area estimation of tree species-specific forest inventory attributes in central Europe using airborne laser scanner data. European Journal of Forest Research, 2010, 129, 833-846.	1.1	52
34	Constitutional pluralism or constitutional unity? An empirical study of international commitment (1945â€“2007). Review of International Studies, 2010, 36, 305-336.	1.1	4
35	Non-parametric prediction and mapping of standing timber volume and biomass in a temperate forest: application of multiple optical/LiDAR-derived predictors. Forestry, 2010, 83, 395-407.	1.2	176
36	Density estimation based on <i>k</i>-tree sampling and point pattern reconstruction. Canadian Journal of Forest Research, 2010, 40, 953-967.	0.8	26

#	ARTICLE	IF	CITATIONS
37	Spatial prediction of forest stand variables. European Journal of Forest Research, 2009, 128, 241-251.	1.1	42
38	A non-linear hierarchical mixed model to describe tree height growth. European Journal of Forest Research, 2006, 125, 281-289.	1.1	35