

Zdenek Vacek

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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.

80
papers

952
citations

18
h-index

23
g-index

84
ext. papers

1,300
ext. citations

2
avg, IF

4.81
L-index

#	Paper	IF	Citations
80	Individual tree crown width models for Norway spruce and European beech in Czech Republic. <i>Forest Ecology and Management</i> , 2016 , 366, 208-220	3.9	56
79	Modelling crown width-diameter relationship for Scots pine in the central Europe. <i>Trees - Structure and Function</i> , 2017 , 31, 1875-1889	2.6	37
78	Effects of air pollution and climatic factors on Norway spruce forests in the Orlický Hory Mts. (Czech Republic), 1979-2014. <i>European Journal of Forest Research</i> , 2015 , 134, 1127-1142	2.7	35
77	Dynamics and structure of mountain autochthonous spruce-beech forests: impact of hilltop phenomenon, air pollutants and climate. <i>Dendrobiology</i> , 77 , 119-137		34
76	Adaption of Norway spruce and European beech forests under climate change: from resistance to close-to-nature silviculture. <i>Central European Forestry Journal</i> , 2019 , 65, 129-144	1.3	29
75	Ungulate Impact on Natural Regeneration in Spruce-Beech-Fir Stands in Ārný Nature Reserve in the Orlický Hory Mountains, Case Study from Central Sudetes. <i>Forests</i> , 2014 , 5, 2929-2946	2.8	27
74	Effects of Bark Stripping on Timber Production and Structure of Norway Spruce Forests in Relation to Climatic Factors. <i>Forests</i> , 2019 , 10, 320	2.8	25
73	Nonlinear mixed effect height-diameter model for mixed species forests in the central part of the Czech Republic. <i>Journal of Forest Science</i> , 2016 , 62, 470-484	0.9	24
72	Structure, regeneration and growth of Scots pine (<i>Pinus sylvestris</i> L.) stands with respect to changing climate and environmental pollution. <i>Silva Fennica</i> , 2016 , 50,	1.9	24
71	Modelling individual tree height-diameter relationships for multi-layered and multi-species forests in central Europe. <i>Trees - Structure and Function</i> , 2019 , 33, 103-119	2.6	23
70	Sensitivity of unmanaged relict pine forest in the Czech Republic to climate change and air pollution. <i>Trees - Structure and Function</i> , 2017 , 31, 1599-1617	2.6	22
69	Modeling individual tree height to diameter ratio for Norway spruce and European beech in Czech Republic. <i>Trees - Structure and Function</i> , 2016 , 30, 1969-1982	2.6	22
68	Long-term changes in vegetation and site conditions in beech and spruce forests of lower mountain ranges of Central Europe. <i>Forest Ecology and Management</i> , 2017 , 398, 75-90	3.9	21
67	Changes in horizontal structure of natural beech forests on an altitudinal gradient in the Sudetes. <i>Dendrobiology</i> , 2015 , 73, 33-45		20
66	A Nonlinear Mixed-Effects Height-to-Diameter Ratio Model for Several Tree Species Based on Czech National Forest Inventory Data. <i>Forests</i> , 2019 , 10, 70	2.8	19
65	Diameter increment of beech in relation to social position of trees, climate characteristics and thinning intensity. <i>Journal of Forest Science</i> , 2016 , 61, 456-464	0.9	18
64	Modelling individual tree height to crown base of Norway spruce (<i>Picea abies</i> (L.) Karst.) and European beech (<i>Fagus sylvatica</i> L.). <i>PLoS ONE</i> , 2017 , 12, e0186394	3.7	18

63	Growth response of mixed beech forests to climate change, various management and game pressure in Central Europe. <i>Journal of Forest Science</i> , 2019 , 65, 331-345	0.9	18
62	Structural diversity and production of alder stands on former agricultural land at high altitudes. <i>Dendrobiology</i> , 75 , 31-44		17
61	Effect of thinning regimes on growth and development of crop trees in <i>Fagus sylvatica</i> stands of Central Europe over fifty years. <i>Dendrobiology</i> , 2018 , 79, 141-155		17
60	Structure, development and health status of spruce forests affected by air pollution in the western Krkonoš Mts. in 1979-2014. <i>Lesnáky úsopis</i> , 2015 , 61, 175-187	1.2	17
59	The dynamics and structure of dead wood in natural spruce-beech forest stand – a 40 year case study in the Krkonoš National Park. <i>Dendrobiology</i> , 2015 , 73, 21-32		16
58	Spatial pattern of relict beech (<i>Fagus sylvatica</i> L.) forests in the Sudetes of the Czech Republic and Poland. <i>Journal of Forest Science</i> , 2016 , 62, 293-305	0.9	16
57	Structure and dynamics of spruce-beech-fir forests in Nature Reserves of the Orlickýhory Mts. in relation to ungulate game. <i>Central European Forestry Journal</i> , 2017 , 63, 23-34	1.3	16
56	Effect of Tree Layer and Microsite on the Variability of Natural Regeneration in Autochthonous Beech Forests. <i>Polish Journal of Ecology</i> , 2015 , 63, 233-246	0.4	15
55	Afforested farmland vs. forestland: Effects of bark stripping by <i>Cervus elaphus</i> and climate on production potential and structure of <i>Picea abies</i> forests. <i>PLoS ONE</i> , 2019 , 14, e0221082	3.7	14
54	How close to nature is close-to-nature pine silviculture?. <i>Journal of Forest Science</i> , 2016 , 62, 24-34	0.9	14
53	The effects of climatic conditions and forest site types on disintegration rates in <i>Picea abies</i> occurring at the Modrava Peat Bogs in the Šumava National Park. <i>Dendrobiology</i> , 2013 , 70, 35-44		14
52	Tree-ring widths as an indicator of air pollution stress and climate conditions in different Norway spruce forest stands in the Krkonoš Mts.. <i>Lesnáky úsopis</i> , 2019 , 65, 21-33	1.2	14
51	Effect of fungal pathogens and climatic factors on production, biodiversity and health status of ash mountain forests. <i>Dendrobiology</i> , 77 , 161-175		12
50	Growth variability of European beech (<i>Fagus sylvatica</i> L.) natural forests: Dendroclimatic study from Krkonoš National Park. <i>Central European Forestry Journal</i> , 2019 , 65, 92-102	1.3	12
49	Generalized Nonlinear Mixed-Effects Individual Tree Diameter Increment Models for Beech Forests in Slovakia. <i>Forests</i> , 2019 , 10, 451	2.8	11
48	Modelling individual tree diameter growth for Norway spruce in the Czech Republic using a generalized algebraic difference approach. <i>Journal of Forest Science</i> , 2017 , 63, 227-238	0.9	11
47	Regeneration of forest stands on permanent research plots in the Krkonoš Mts.. <i>Journal of Forest Science</i> , 2010 , 56, 541-554	0.9	11
46	Modelling tree crown-to-bole diameter ratio for Norway spruce and European beech. <i>Silva Fennica</i> , 2017 , 51,	1.9	11

45	Carbon sequestration in soil following afforestation of former agricultural land in the Czech Republic. <i>Central European Forestry Journal</i> , 2017 , 63, 97-104	1.3	11
44	Bark stripping, the crucial factor affecting stem rot development and timber production of Norway spruce forests in Central Europe. <i>Forest Ecology and Management</i> , 2020 , 474, 118360	3.9	10
43	Current and simulated structure, growth parameters and regeneration of beech forests with different game management in the Lby Game Enclosure / Struktura, rstovparametry, obnova a modelovVvoj bukovh porostk odliih zpobem mysliveckho hospodaenV podmkh Lbskbory. <i>Lesnky isopis</i> , 2015 , 61, 78-88	1.2	10
42	Sycamore maple (<i>Acer pseudoplatanus</i> L.) stands on former agricultural land in the Sudetes - evaluation of ecological value and production potential. <i>Dendrobiology</i> , 79 , 61-76		10
41	Effect of climate and air pollution on radial growth of mixed forests: <i>Abies alba</i> Mill. vs. <i>Picea abies</i> (L.) Karst.. <i>Central European Forestry Journal</i> , 2020 , 66, 23-36	1.3	10
40	The effects of fertilization on the health status, nutrition and growth of Norway spruce forests with yellowing symptoms. <i>Scandinavian Journal of Forest Research</i> , 2019 , 34, 267-281	1.7	9
39	Mixed vs. monospecific mountain forests in response to climate change: structural and growth perspectives of Norway spruce and European beech. <i>Forest Ecology and Management</i> , 2021 , 488, 119019	3.9	9
38	Wild boar deathbed choice in relation to ASF: Are there any differences between positive and negative carcasses?. <i>Preventive Veterinary Medicine</i> , 2020 , 177, 104943	3.1	8
37	Comparison of growth and wood quality of Norway spruce and European larch: effect of previous land use. <i>European Journal of Forest Research</i> , 2020 , 139, 459-472	2.7	8
36	Impact of applied silvicultural systems on spatial pattern of hornbeam-oak forests. <i>Central European Forestry Journal</i> , 2018 , 64, 33-45	1.3	8
35	Structure and development of forest stands on permanent research plots in the Krkono Mountains. <i>Journal of Forest Science</i> , 2010 , 56, 518-530	0.9	8
34	Are clearcut borders an effective tool for Scots pine (<i>Pinus sylvestris</i> L.) natural regeneration?. <i>Forest Systems</i> , 2018 , 27, e010	0.9	8
33	Generalized Nonlinear Mixed-Effects Individual Tree Crown Ratio Models for Norway Spruce and European Beech. <i>Forests</i> , 2018 , 9, 555	2.8	8
32	Sunspot area as unexplored trend inside radial growth of European beech in Krkono Mountains: a forest science from different perspective. <i>European Journal of Forest Research</i> , 2020 , 139, 999-1013	2.7	7
31	Windbreak Efficiency in Agricultural Landscape of the Central Europe: Multiple Approaches to Wind Erosion Control. <i>Environmental Management</i> , 2018 , 62, 942-954	3.1	7
30	Forest biodiversity and production potential of post-mining landscape: opting for afforestation or leaving it to spontaneous development?. <i>Central European Forestry Journal</i> , 2018 , 64, 116-126	1.3	7
29	Solar Cycles in Salvage Logging: National Data from the Czech Republic Confirm Significant Correlation. <i>Forests</i> , 2020 , 11, 973	2.8	7
28	Analysis of operational approach during forest transformation in Kloko Range, Central Bohemia. <i>Journal of Forest Science</i> , 2016 , 61, 148-155	0.9	6

27	Production potential and structural variability of pine stands in the Czech Republic: Scots pine (<i>Pinus sylvestris</i> L.) vs. introduced pines – case study and problem review. <i>Journal of Forest Science</i> , 2020 , 66, 197-207	0.9	6
26	Silviculture as a tool to support stability and diversity of forests under climate change: study from Krkonoš Mountains. <i>Lesnický časopis</i> , 2020 , 66, 116-129	1.2	6
25	Stand dynamics in natural Scots pine forests as a model for adaptation management?. <i>Dendrobiology</i> , 82 , 24-42		5
24	Long-term effect of climate and air pollution on health status and growth of <i>Picea abies</i> (L.) Karst. peaty forests in the Black Triangle region. <i>Dendrobiology</i> , 83 , 1-19		5
23	Struktura a modelování lesních porostů NPR Trávníčsko Orlický Hory, Česká republika. <i>Lesnický časopis</i> , 2013 , 59, 248-263	1.2	5
22	Scots pine (<i>Pinus sylvestris</i> L.), the suitable pioneer species for afforestation of reclamation sites?. <i>Forest Ecology and Management</i> , 2021 , 485, 1189-1195	3.9	5
21	Growth, healthy status and seed production of differently aged allochthonous and autochthonous <i>Pinus mugo</i> stands in the Giant Mts. over 30 years. <i>European Journal of Forest Research</i> , 2013 , 132, 801-813	2.7	4
20	Horizontal structure of forest stands on permanent research plots in the Krkonoš Mountains and its development. <i>Journal of Forest Science</i> , 2010 , 56, 531-540	0.9	4
19	The effects of Alginite fertilization on selected tree species seedlings performance on afforested agricultural lands. <i>Central European Forestry Journal</i> , 2017 , 63, 48-56	1.3	4
18	Changes in diversity of protected scree and herb-rich beech forest ecosystems over 55 years. <i>Lesnický časopis</i> , 2020 , 66, 202-217	1.2	4
17	Tree Rings of European Beech (<i>Fagus sylvatica</i> L.) Indicate the Relationship with Solar Cycles during Climate Change in Central and Southern Europe. <i>Forests</i> , 2021 , 12, 259	2.8	4
16	Production potential, biodiversity and soil properties of forest reclamations: Opportunities or risk of introduced coniferous tree species under climate change?. <i>European Journal of Forest Research</i> , 2021 , 140, 1243-1266	2.7	4
15	Effect of Invasive <i>Rhododendron ponticum</i> L. on Natural Regeneration and Structure of <i>Fagus orientalis</i> Lipsky Forests in the Black Sea Region. <i>Forests</i> , 2020 , 11, 603	2.8	3
14	Biomass productivity, forest stability, carbon balance, and soil transformation of agricultural land afforestation: A case study of suitability of native tree species in the submontane zone in Czechia. <i>Catena</i> , 2022 , 210, 105893	5.8	3
13	Timber and Branch Volume Prediction: Effects of Stand and Site Characteristics on Dendromass and Timber-To-Branch Volume Ratio of Norway Spruce in Managed Forests. <i>Forests</i> , 2019 , 10, 144	2.8	3
12	Roe deer (<i>Capreolus capreolus</i>) mortality in relation to fodder harvest in agricultural landscape. <i>Mammalia</i> , 2019 , 83, 461-469	1	2
11	Extensive Orchards in the Agricultural Landscape: Effective Protection against Fraying Damage Caused by Roe Deer. <i>Sustainability</i> , 2019 , 11, 3738	3.6	2
10	Different patterns of human activities in nature during Covid-19 pandemic and African swine fever outbreak confirm direct impact on wildlife disruption. <i>Scientific Reports</i> , 2021 , 11, 20791	4.9	2

9	Effects of silver fir (<i>Abies alba</i> Mill.) on the humus forms in Norway spruce (<i>Picea abies</i> (L.) H. Karst.) stands. <i>Journal of Forest Science</i> , 2018 , 64, 245-250	0.9	2
8	Germinative capacity and energy of critically endangered Ojčů birch (<i>Betula oycoviensis</i> Besser) in the Czech Republic. <i>Journal of Forest Science</i> , 2020 , 66, 227-235	0.9	1
7	Evaluation of Spatio-Temporal Patterns of Predation Risk to Forest Grouse Nests in the Central European Mountain Regions. <i>Animals</i> , 2021 , 11,	3.1	1
6	Quarter of a century of forest fertilization and liming research at the Department of Silviculture in Prague, Czech Republic. <i>Central European Forestry Journal</i> , 2021 , 67, 123-134	1.3	0
5	Effect of game browsing on natural regeneration of European beech (<i>Fagus sylvatica</i> L.) forests in the Krušohory Mts. (Czech Republic and Germany). <i>Central European Forestry Journal</i> , 2021 , 67, 166-180	1.3	0
4	Effect of Climate Change on the Growth of Endangered Scree Forests in Krkonoš National Park (Czech Republic). <i>Forests</i> , 2021 , 12, 1127	2.8	0
3	Scots pine (<i>Pinus sylvestris</i> L.) demonstrates a high resistance against bark stripping damage. <i>Forest Ecology and Management</i> , 2022 , 513, 120182	3.9	0
2	Is European larch (<i>Larix decidua</i> Mill.) a suitable substitute for Norway spruce (<i>Picea abies</i> (L.) Karst.) for agricultural land afforestation?. <i>Forest Ecology and Management</i> , 2022 , 517, 120257	3.9	0
1	Editorial to the thematic issue: Silviculture and forest production under climate change. <i>Lesnůky ůsopis</i> , 2020 , 66, 61-62	1.2	