Zuzana Lhotakova

List of Publications by Year
in descending order

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39	932	516215 16	476904 29
papers	citations	h-index	g-index

39	39	39	1273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Is the effect of trees on soil properties mediated by soil fauna? A case study from post-mining sites. Forest Ecology and Management, 2013, 309, 87-95.	1.4	161
2	Applicability of the PROSPECT model for Norway spruce needles. International Journal of Remote Sensing, 2006, 27, 5315-5340.	1.3	101
3	Stabilization of soil organic matter by earthworms is connected with physical protection rather than with chemical changes of organic matter. Geoderma, 2017, 289, 29-35.	2.3	81
4	Novel Root-Fungus Symbiosis in Ericaceae: Sheathed Ericoid Mycorrhiza Formed by a Hitherto Undescribed Basidiomycete with Affinities to Trechisporales. PLoS ONE, 2012, 7, e39524.	1.1	72
5	The Effect of Leaf Stacking on Leaf Reflectance and Vegetation Indices Measured by Contact Probe during the Season. Sensors, 2017, 17, 1202.	2.1	46
6	Advantages and pitfalls of using freeâ€hand sections of frozen needles for threeâ€dimensional analysis of mesophyll by stereology and confocal microscopy. Journal of Microscopy, 2008, 232, 56-63.	0.8	40
7	Major mechanisms contributing to the macrofauna-mediated slow down of litter decomposition. Soil Biology and Biochemistry, 2015, 91, 23-31.	4.2	32
8	Using multi-date high spectral resolution data to assess the physiological status of macroscopically undamaged foliage on a regional scale. International Journal of Applied Earth Observation and Geoinformation, 2014, 27, 169-186.	1.4	26
9	Does the azimuth orientation of Norway spruce (Picea abies/L./Karst.) branches within sunlit crown part influence the heterogeneity of biochemical, structural and spectral characteristics of needles?. Environmental and Experimental Botany, 2007, 59, 283-292.	2.0	24
10	Novel efficient methods for measuring mesophyll anatomical characteristics from fresh thick sections using stereology and confocal microscopy: application on acid rain-treated Norway spruce needles. Journal of Experimental Botany, 2007, 58, 1451-1461.	2.4	23
11	Comparison of Reflectance Measurements Acquired with a Contact Probe and an Integration Sphere: Implications for the Spectral Properties of Vegetation at a Leaf Level. Sensors, 2016, 16, 1801.	2.1	22
12	Unbiased estimation of chloroplast number in mesophyll cells: advantage of a genuine three-dimensional approach. Journal of Experimental Botany, 2014, 65, 609-620.	2.4	21
13	Mixotrophic in vitro cultivations: the way to go astray in plant physiology. Physiologia Plantarum, 2019, 167, 365-377.	2.6	21
14	Measurement methods and variability assessment of the Norway spruce total leaf area: implications for remote sensing. Trees - Structure and Function, 2013, 27, 111-121.	0.9	20
15	Detection of multiple stresses in Scots pine growing at post-mining sites using visible to near-infrared spectroscopy. Environmental Sciences: Processes and Impacts, 2013, 15, 2004.	1.7	18
16	Detection of Spatio-Temporal Changes of Norway Spruce Forest Stands in Ore Mountains Using Landsat Time Series and Airborne Hyperspectral Imagery. Remote Sensing, 2016, 8, 92.	1.8	18
17	Utilization of hyperspectral image optical indices to assess the Norway spruce forest health status. Journal of Applied Remote Sensing, 2012, 6, 063545.	0.6	17
18	The impact of long-term CO2 enrichment on sun and shade needles of Norway spruce (Picea abies): Photosynthetic performance, needle anatomy and phenolics accumulation. Plant Science, 2012, 188-189, 60-70.	1.7	15

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19	Linking Foliar Chemistry to Forest Floor Solid and Solution Phase Organic C and N in Picea abies [L.] Karst Stands in Northern Bohemia. Plant and Soil, 2006, 283, 187-201.	1.8	14
20	Assessing forest health via linking the geochemical properties of a soil profile with the biochemical parameters of vegetation. International Journal of Environmental Science and Technology, 2015, 12, 1987-2002.	1.8	14
21	Genetic variability and heritability of chlorophyllafluorescence parameters in Scots pine (Pinus sylvestrisL.). Tree Physiology, 2016, 36, 883-895.	1.4	14
22	Canopy Top, Height and Photosynthetic Pigment Estimation Using Parrot Sequoia Multispectral Imagery and the Unmanned Aerial Vehicle (UAV). Remote Sensing, 2021, 13, 705.	1.8	14
23	Spectral analysis of coniferous foliage and possible links to soil chemistry: Are spectral chlorophyll indices related to forest floor dissolved organic C and N?. Science of the Total Environment, 2008, 404, 424-432.	3.9	13
24	Norway spruce needle size and cross section shape variability induced by irradiance on a macro- and microscale and CO2 concentration. Trees - Structure and Function, 2018, 32, 231-244.	0.9	12
25	Upscaling seasonal phenological course of leaf dorsiventral reflectance in radiative transfer model. Remote Sensing of Environment, 2020, 246, 111862.	4.6	12
26	Light and CO2 Modulate the Accumulation and Localization of Phenolic Compounds in Barley Leaves. Antioxidants, 2021, 10, 385.	2.2	11
27	The life cycle, population dynamics, and contribution to litter decomposition of Penthetria holosericea (Diptera: Bibionidae) in an alder forest. European Journal of Soil Biology, 2015, 71, 21-27.	1.4	9
28	Heritable variation in needle spectral reflectance of Scots pine (Pinus sylvestris L.) peaks in red edge. Remote Sensing of Environment, 2018, 219, 89-98.	4.6	9
29	Leaf Age Matters in Remote Sensing: Taking Ground Truth for Spectroscopic Studies in Hemiboreal Deciduous Trees with Continuous Leaf Formation. Remote Sensing, 2021, 13, 1353.	1.8	9
30	Foliage Biophysical Trait Prediction from Laboratory Spectra in Norway Spruce Is More Affected by Needle Age Than by Site Soil Conditions. Remote Sensing, 2021, 13, 391.	1.8	8
31	Seasonal changes in tree foliage and litterfall composition at reclaimed and unreclaimed post-mining sites. Ecological Engineering, 2021, 173, 106424.	1.6	7
32	STEREOLOGY, AN UNBIASED METHODOLOGICAL APPROACH TO STUDY PLANT ANATOMY AND CYTOLOGY: PAST, PRESENT AND FUTURE. Image Analysis and Stereology, 2017, 36, 187.	0.4	6
33	Nonstructural carbohydrate-balance response to long-term elevated CO2 exposure in European beech and Norway spruce mixed cultures: biochemical and ultrastructural responses. Canadian Journal of Forest Research, 2017, 47, 1488-1494.	0.8	5
34	Barley Genotypes Vary in Stomatal Responsiveness to Light and CO2 Conditions. Plants, 2021, 10, 2533.	1.6	4
35	Revealing the Complex Relationship Among Hyperspectral Reflectance, Photosynthetic Pigments, and Growth in Norway Spruce Ecotypes. Frontiers in Plant Science, 2022, 13, .	1.7	4
36	A universal method for the isolation of photochemically active broken chloroplasts from conifer needles and its possible application in photosynthetic studies. Photosynthetica, 2012, 50, 291-304.	0.9	3

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37	Leaf Surface Reflectance Does Not Affect Biophysical Traits Modelling from VIS-NIR Spectra in Plants with Sparsely Distributed Trichomes. Remote Sensing, 2021, 13, 4144.	1.8	3
38	Determination of lignin content in Norway spruce foliage using NIR spectroscopy and hyperspectral data. , 2012, , .		2
39	Statistical comparison of spectral and biochemical measurements on an example of Norway spruce stands in the Ore Mountains, Czech Republic. Geoinformatics FCE CTU, 2016, 15, 69-83.	0.4	1