

Lorenz Walthert

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

974
citations

516710

16
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

1201
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2018 European heatwave led to stem dehydration but not to consistent growth reductions in forests. <i>Nature Communications</i> , 2022, 13, 28.	12.8	66
2	Number of growth days and not length of the growth period determines radial stem growth of temperate trees. <i>Ecology Letters</i> , 2022, 25, 427-439.	6.4	58
3	Shotgun Metagenomics of Deep Forest Soil Layers Show Evidence of Altered Microbial Genetic Potential for Biogeochemical Cycling. <i>Frontiers in Microbiology</i> , 2022, 13, 828977.	3.5	8
4	From the comfort zone to crown dieback: Sequence of physiological stress thresholds in mature European beech trees across progressive drought. <i>Science of the Total Environment</i> , 2021, 753, 141792.	8.0	85
5	Deep Soil Layers of Drought-Exposed Forests Harbor Poorly Known Bacterial and Fungal Communities. <i>Frontiers in Microbiology</i> , 2021, 12, 674160.	3.5	41
6	Why trees grow at night. <i>New Phytologist</i> , 2021, 231, 2174-2185.	7.3	98
7	Machine learning based soil maps for a wide range of soil properties for the forested area of Switzerland. <i>Geoderma Regional</i> , 2021, 27, e00437.	2.1	16
8	TreeNetâ€‘The Biological Drought and Growth Indicator Network. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	13
9	Spatial modelling of ecological indicator values improves predictions of plant distributions in complex landscapes. <i>Ecography</i> , 2020, 43, 1448-1463.	4.5	27
10	A Critical Evaluation of the Relationship Between the Effective Cation Exchange Capacity and Soil Organic Carbon Content in Swiss Forest Soils. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	71
11	Leaf Morphological Traits and Leaf Nutrient Concentrations of European Beech Across a Water Availability Gradient in Switzerland. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	12
12	Determinants of legacy effects in pine trees â€‘ implications from an irrigationâ€‘stop experiment. <i>New Phytologist</i> , 2020, 227, 1081-1096.	7.3	52
13	Equations to compensate for the temperature effect on readings from dielectric Decagon MPS-2 and MPS-6 water potential sensors in soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 749-759.	1.9	26
14	Reconstruction of Historic Forest Cover Changes Indicates Minor Effects on Carbon Stocks in Swiss Forest Soils. <i>Ecosystems</i> , 2017, 20, 1512-1528.	3.4	21
15	Tree species distribution in temperate forests is more influenced by soil than by climate. <i>Ecology and Evolution</i> , 2017, 7, 9473-9484.	1.9	66
16	Variability in $\delta^{14}\text{C}$ contents of soil organic matter at the plot and regional scale across climatic and geologic gradients. <i>Biogeosciences</i> , 2016, 13, 3427-3439.	3.3	23
17	Soil nutrients influence growth response of temperate tree species to drought. <i>Journal of Ecology</i> , 2016, 104, 377-387.	4.0	80
18	Pedotransfer function to predict density of forest soils in Switzerland. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 321-326.	1.9	7

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19	A climate-sensitive empirical growth and yield model for forest management planning of even-aged beech stands. <i>European Journal of Forest Research</i> , 2016, 135, 263-282.	2.5	16
20	Shortage of nutrients and excess of toxic elements in soils limit the distribution of soil-sensitive tree species in temperate forests. <i>Forest Ecology and Management</i> , 2013, 297, 94-107.	3.2	30
21	Estimating leaf area index of mature temperate forests using regressions on site and vegetation data. <i>Forest Ecology and Management</i> , 2011, 261, 601-610.	3.2	47
22	Determination of organic and inorganic carbon, $\hat{r}^{13}\text{C}$, and nitrogen in soils containing carbonates after acid fumigation with HCl. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 207-216.	1.9	111