Lorenz Walthert

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3252934/publications.pdf

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	Determination of organic and inorganic carbon, Î´¹³C, and nitrogen in soils containing carbonates after acid fumigation with HCl. Journal of Plant Nutrition and Soil Science, 2010, 173, 207-216.	1.9	111
2	Why trees grow at night. New Phytologist, 2021, 231, 2174-2185.	7.3	98
3	From the comfort zone to crown dieback: Sequence of physiological stress thresholds in mature European beech trees across progressive drought. Science of the Total Environment, 2021, 753, 141792.	8.0	85
4	Soil nutrients influence growth response of temperate tree species to drought. Journal of Ecology, 2016, 104, 377-387.	4.0	80
5	A Critical Evaluation of the Relationship Between the Effective Cation Exchange Capacity and Soil Organic Carbon Content in Swiss Forest Soils. Frontiers in Forests and Global Change, 2020, 3, .	2.3	71
6	Tree species distribution in temperate forests is more influenced by soil than by climate. Ecology and Evolution, 2017, 7, 9473-9484.	1.9	66
7	The 2018 European heatwave led to stem dehydration but not to consistent growth reductions in forests. Nature Communications, 2022, 13, 28.	12.8	66
8	Number of growth days and not length of the growth period determines radial stem growth of temperate trees. Ecology Letters, 2022, 25, 427-439.	6.4	58
9	Determinants of legacy effects in pine trees â€“ implications from an irrigationâ€stop experiment. New Phytologist, 2020, 227, 1081-1096.	7.3	52
10	Estimating leaf area index of mature temperate forests using regressions on site and vegetation data. Forest Ecology and Management, 2011, 261, 601-610.	3.2	47
11	Deep Soil Layers of Drought-Exposed Forests Harbor Poorly Known Bacterial and Fungal Communities. Frontiers in Microbiology, 2021, 12, 674160.	3.5	41
12	Shortage of nutrients and excess of toxic elements in soils limit the distribution of soil-sensitive tree species in temperate forests. Forest Ecology and Management, 2013, 297, 94-107.	3.2	30
13	Spatial modelling of ecological indicator values improves predictions of plant distributions in complex landscapes. Ecography, 2020, 43, 1448-1463.	4.5	27
14	Equations to compensate for the temperature effect on readings from dielectric Decagon MPS-2 and MPS-6 water potential sensors in soils. Journal of Plant Nutrition and Soil Science, 2018, 181, 749-759.	1.9	26
15	Variability in ¹⁴C contents of soil organic matter at the plot and regional scale across climatic and geologic gradients. Biogeosciences, 2016, 13, 3427-3439.	3.3	23
16	Reconstruction of Historic Forest Cover Changes Indicates Minor Effects on Carbon Stocks in Swiss Forest Soils. Ecosystems, 2017, 20, 1512-1528.	3.4	21
17	A climate-sensitive empirical growth and yield model for forest management planning of even-aged beech stands. European Journal of Forest Research, 2016, 135, 263-282.	2.5	16
18	Machine learning based soil maps for a wide range of soil properties for the forested area of Switzerland. Geoderma Regional, 2021, 27, e00437.	2.1	16

#	Article	IF	Citations
19	TreeNetâ€“The Biological Drought and Growth Indicator Network. Frontiers in Forests and Global Change, 2021, 4, .	2.3	13
20	Leaf Morphological Traits and Leaf Nutrient Concentrations of European Beech Across a Water Availability Gradient in Switzerland. Frontiers in Forests and Global Change, 2020, 3, .	2.3	12
21	Shotgun Metagenomics of Deep Forest Soil Layers Show Evidence of Altered Microbial Genetic Potential for Biogeochemical Cycling. Frontiers in Microbiology, 2022, 13, 828977.	3.5	8
22	Pedotransfer function to predict density of forest soils in Switzerland. Journal of Plant Nutrition and Soil Science, 2016, 179, 321-326.	1.9	7