Holger Lange

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1005071/publications.pdf

Version: 2024-02-01

53	2,312	331670	223800
papers	citations	21	46
		h-index	g-index

67	67	67	4459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
2	Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level. Science, 2010, 329, 838-840.	12.6	446
3	Analyses of the impact of changes in atmospheric deposition and climate on forest growth in European monitoring plots: A stand growth approach. Forest Ecology and Management, 2009, 258, 1735-1750.	3.2	191
4	Mapping LAI in a Norway spruce forest using airborne laser scanning. Remote Sensing of Environment, 2009, 113, 2317-2327.	11.0	159
5	Drought, Heat, and the Carbon Cycle: a Review. Current Climate Change Reports, 2018, 4, 266-286.	8.6	132
6	Fine root production and turnover of tree and understorey vegetation in Scots pine, silver birch and Norway spruce stands in SW Sweden. Forest Ecology and Management, 2013, 309, 58-65.	3.2	83
7	Modelling the potential impact of global warming on Ips typographus voltinism and reproductive diapause. Climatic Change, 2011, 109, 695-718.	3.6	78
8	Trends of air pollution in the Fichtelgebirge Mountains, Bavaria. Environmental Science and Pollution Research, 1999, 6, 193-199.	5.3	46
9	Identifying multiple spatiotemporal patterns: A refined view on terrestrial photosynthetic activity. Pattern Recognition Letters, 2010, 31, 2309-2317.	4.2	43
10	Inter-individual variability in spring phenology of temperate deciduous trees depends on species, tree size and previous year autumn phenology. Agricultural and Forest Meteorology, 2020, 290, 108031.	4.8	43
11	Characterizing ecosystem-atmosphere interactions from short to interannual time scales. Biogeosciences, 2007, 4, 743-758.	3.3	42
12	Analysing land cover and land use change in the Matobo National Park and surroundings in Zimbabwe. Remote Sensing of Environment, 2017, 194, 278-286.	11.0	38
13	Spectral fingerprinting of soil organic matter composition. Organic Geochemistry, 2012, 46, 127-136.	1.8	34
14	Potential of Near-Infrared Spectroscopy for Measurement of Heavy Metals in Soil as Affected by Calibration Set Size. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	33
15	Timeline of autumn phenology in temperate deciduous trees. Tree Physiology, 2020, 40, 1001-1013.	3.1	31
16	Water flow paths and residence times in a small headwater catchment at GÃ¥rdsjÃ¶n, Sweden, during steady state storm flow conditions. Water Resources Research, 1996, 32, 1689-1698.	4.2	30
17	Changes in the microbial community in a forest soil amended with aluminium in situ. Plant and Soil, 2005, 275, 295-304.	3.7	30
18	A modified ingrowth core method for measuring fine root production, mortality and decomposition in forests. Tree Physiology, 2013, 33, 18-25.	3.1	29

#	Article	IF	Citations
19	Classification of Runoff in Headwater Catchments: A Physical Problem?. Geography Compass, 2008, 2, 235-254.	2.7	26
20	Characterising flow patterns in soils by feature extraction and multiple consensus clustering. Ecological Informatics, 2013, 15, 44-52.	5.2	24
21	Fine root biomass, necromass and chemistry during seven years of elevated aluminium concentrations in the soil solution of a middle-aged Picea abies stand. Science of the Total Environment, 2006, 369, 344-356.	8.0	22
22	Have precipitation extremes and annual totals been increasing in the world's dry regions over the last 60Âyears?. Hydrology and Earth System Sciences, 2017, 21, 441-458.	4.9	22
23	Diagnosing the Dynamics of Observed and Simulated Ecosystem Gross Primary Productivity with Time Causal Information Theory Quantifiers. PLoS ONE, 2016, 11, e0164960.	2.5	20
24	Aluminum dynamics in forest soil waters in Norway. Science of the Total Environment, 2006, 367, 942-957.	8.0	19
25	Use of interactive forest growth simulation to characterise spatial stand structure. Forest Ecology and Management, 2004, 194, 29-47.	3.2	18
26	Ecosystem dynamics viewed from an endoperspective. Science of the Total Environment, 1996, 183, 125-136.	8.0	13
27	A modified soil coring method for measuring fine root production, mortality and decomposition in forests. Soil Biology and Biochemistry, 2015, 91, 192-199.	8.8	13
28	Decomposition rates and nutrient dynamics of Picea abies needles, twigs and fine roots after stem-only harvesting in eastern and western Norway. Plant and Soil, 2017, 418, 357-375.	3.7	12
29	Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. Biogeosciences, 2021, 18, 621-635.	3.3	12
30	Title is missing!. Nutrient Cycling in Agroecosystems, 1998, 50, 109-118.	2.2	11
31	Underestimation of boreal forest soil carbon stocks related to soil classification and drainage. Canadian Journal of Forest Research, 2016, 46, 1413-1425.	1.7	11
32	Nonlinear dynamics of river runoff elucidated by horizontal visibility graphs. Chaos, 2018, 28, 075520.	2.5	11
33	Estimating determinism rates to detect patterns in geospatial datasets. Remote Sensing of Environment, 2015, 156, 11-20.	11.0	10
34	Gap-filling continuously-measured soil respiration data: A highlight of time-series-based methods. Agricultural and Forest Meteorology, 2020, 285-286, 107912.	4.8	10
35	Long-term sulfate dynamics at lange bramke (Harz) used for testing two acidification models. Water, Air, and Soil Pollution, 1995, 79, 339-351.	2.4	9
36	Response to Comment on â€œGlobal Convergence in the Temperature Sensitivity of Respiration at Ecosystem Levelâ€• Science, 2011, 331, 1265-1265.	12.6	9

#	Article	IF	Citations
37	Short-term effects of whole-tree harvesting on understory plant species diversity and cover in two Norway spruce sites in southern Norway. Scandinavian Journal of Forest Research, 2016, 31, 766-776.	1.4	9
38	Data synergy between leaf area index and clumping index Earth Observation products using photon recollision probability theory. Remote Sensing of Environment, 2018, 215, 1-6.	11.0	9
39	Modeling Soil Carbon Dynamics in Northern Forests: Effects of Spatial and Temporal Aggregation of Climatic Input Data. PLoS ONE, 2016, 11, e0149902.	2.5	7
40	Severe drought can delay autumn senescence of silver birch in the current year but advance it in the next year. Agricultural and Forest Meteorology, 2022, 316, 108879.	4.8	7
41	RECURRENCE QUANTIFICATION ANALYSIS IN WATERSHED ECOSYSTEM RESEARCH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 1113-1125.	1.7	5
42	Effects of forest residue harvesting on short-term changes in soil solution chemistry. Scandinavian Journal of Forest Research, 2018, 33, 299-307.	1.4	5
43	Norway Spruce Fine Roots and Fungal Hyphae Grow Deeper in Forest Soils After Extended Drought. , 2017, , 123-142.		4
44	Recurrence Quantification and Recurrence Network Analysis of Global Photosynthetic Activity. Understanding Complex Systems, 2015, , 349-374.	0.6	4
45	Shallow water flow in a deeply weathered granite aquifer and implications for hydrochemical models. Water, Air, and Soil Pollution, 1995, 85, 1825-1830.	2.4	3
46	Identification of characteristic plant co-occurrences in neotropical secondary montane forests. Journal of Plant Ecology, 2009, 2, 31-41.	2.3	3
47	Transit times of water under steady stormflow conditions in the GÃ¥rdsjÃ¶n G1 catchment. Hydrological Processes, 2015, 29, 4657-4665.	2.6	2
48	Vertically Divergent Responses of SOC Decomposition to Soil Moisture in a Changing Climate. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	2
49	CONCEPTUAL MODEL OF RUNOFF FROM A FORESTED CATCHMENT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2567-2578.	1.7	1
50	Recurrence Analysis of Eddy Covariance Fluxes. Springer Proceedings in Physics, 2016, , 301-319.	0.2	1
51	Long-Term Structures in Southern German Runoff Data. , 2011, , 250-265.		0
52	Complexity and Simplicity in Ecosystems: The case of forest management. , 2006, , 279-292.		0
53	Comparing sap flow calculations from Heat Field Deformation (HFD) and Linear Heat Balance (LHB) methods. Agricultural and Forest Meteorology, 2022, 321, 108974.	4.8	0