

François Jonard

List of Publications by Year in descending order

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41
papers

879
citations

471509

17
h-index

477307

29
g-index

46
all docs

46
docs citations

46
times ranked

1284
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging methods for noninvasive sensing of soil moisture dynamics from field to catchment scale: a review. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 635-647.	6.5	86
2	Estimating Forest Structure from UAV-Mounted LiDAR Point Cloud Using Machine Learning. <i>Remote Sensing</i> , 2021, 13, 352.	4.0	67
3	Value of sun-induced chlorophyll fluorescence for quantifying hydrological states and fluxes: Current status and challenges. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108088.	4.8	62
4	Brightness Temperature and Soil Moisture Validation at Different Scales During the SMOS Validation Campaign in the Rur and Erft Catchments, Germany. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 1728-1743.	6.3	61
5	Mapping Field-Scale Soil Moisture With L-Band Radiometer and Ground-Penetrating Radar Over Bare Soil. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2863-2875.	6.3	55
6	Sap flux density and stomatal conductance of European beech and common oak trees in pure and mixed stands during the summer drought of 2003. <i>Journal of Hydrology</i> , 2011, 409, 371-381.	5.4	52
7	Characterization of tillage effects on the spatial variation of soil properties using ground-penetrating radar and electromagnetic induction. <i>Geoderma</i> , 2013, 207-208, 310-322.	5.1	47
8	Spatial and temporal patterns of throughfall volume in a deciduous mixed-species stand. <i>Journal of Hydrology</i> , 2011, 400, 244-254.	5.4	42
9	Characterization of Crop Canopies and Water Stress Related Phenomena using Microwave Remote Sensing Methods: A Review. <i>Vadose Zone Journal</i> , 2012, 11, vzt2011.0138ra.	2.2	41
10	Estimation of Hydraulic Properties of a Sandy Soil Using Ground-Based Active and Passive Microwave Remote Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 3095-3109.	6.3	37
11	Soil carbon dioxide efflux in pure and mixed stands of oak and beech. <i>Annals of Forest Science</i> , 2007, 64, 141-150.	2.0	33
12	Accounting for soil surface roughness in the inversion of ultrawideband off-ground GPR signal for soil moisture retrieval. <i>Geophysics</i> , 2012, 77, H1-H7.	2.6	33
13	Soil moisture sensor calibration for organic soil surface layers. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 109-125.	1.6	32
14	A Dielectric Mixing Model Accounting for Soil Organic Matter. <i>Vadose Zone Journal</i> , 2019, 18, 190036.	2.2	24
15	Estimating Canopy Density Parameters Time-Series for Winter Wheat Using UAS Mounted LiDAR. <i>Remote Sensing</i> , 2021, 13, 710.	4.0	24
16	Passive L-Band Microwave Remote Sensing of Organic Soil Surface Layers: A Tower-Based Experiment. <i>Remote Sensing</i> , 2018, 10, 304.	4.0	22
17	The Soil Moisture Active Passive Experiments: Validation of the SMAP Products in Australia. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 2922-2939.	6.3	19
18	Vegetation Optical Depth and Soil Moisture Retrieved from L-Band Radiometry over the Growth Cycle of a Winter Wheat. <i>Remote Sensing</i> , 2018, 10, 1637.	4.0	17

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19	Efficiency of end effect probes for in-situ permittivity measurements in the 0.5–6GHz frequency range and their application for organic soil horizons study. <i>Sensors and Actuators A: Physical</i> , 2017, 254, 78-88.	4.1	15
20	The Sarsense Campaign: Air- and Space-Borne C- and L-Band SAR for the Analysis of Soil and Plant Parameters in Agriculture. <i>Remote Sensing</i> , 2021, 13, 825.	4.0	14
21	Modeling of Multilayered Media Green's Functions With Rough Interfaces. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 7671-7681.	6.3	12
22	In situ characterization of forest litter using ground-penetrating radar. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 879-894.	3.0	10
23	Estimating Gravimetric Water Content of a Winter Wheat Field from L-Band Vegetation Optical Depth. <i>Remote Sensing</i> , 2019, 11, 2353.	4.0	10
24	Remote Sensing of Instantaneous Drought Stress at Canopy Level Using Sun-Induced Chlorophyll Fluorescence and Canopy Reflectance. <i>Remote Sensing</i> , 2022, 14, 2642.	4.0	10
25	Modelling the Temporal Dynamics of Groundwater Pollution Risks at the African Scale. <i>Water (Switzerland)</i> , 2020, 12, 1406.	2.7	9
26	HETEROFOR 1.0: a spatially explicit model for exploring the response of structurally complex forests to uncertain future conditions – Part 2: Phenology and water cycle. <i>Geoscientific Model Development</i> , 2020, 13, 1459-1498.	3.6	7
27	Accounting for Surface Roughness Scattering in the Characterization of Forest Litter with Ground-Penetrating Radar. <i>Remote Sensing</i> , 2019, 11, 828.	4.0	5
28	Inter-Comparison of Proximal Near-Surface Soil Moisture Measurement Techniques. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 2370-2378.	4.9	5
29	Electromagnetic characterization of organic-rich soils at the microwave L-band with ground-penetrating radar, radiometry and laboratory measurements. , 2014, , .		4
30	Estimation of Vegetation Structure Parameters From SMAP Radar Intensity Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, , 1-17.	6.3	4
31	Toward estimation of seasonal water dynamics of winter wheat from ground-based L-band radiometry: a concept study. <i>Biogeosciences</i> , 2022, 19, 2273-2294.	3.3	4
32	Ground-Based Soil Moisture Determination. <i>Ecohydrology</i> , 2018, , 1-42.	0.2	3
33	Machine Learning with UAS LiDAR for Winter Wheat Biomass Estimations. <i>AGILE: GIScience Series</i> , 0, 3, 1-4.	0.0	3
34	Soil moisture retrieval using L-band radiometer and ground-penetrating radar. , 2011, , .		2
35	Ground-Based Soil Moisture Determination. <i>Ecohydrology</i> , 2019, , 29-70.	0.2	2
36	Global L-Band Vegetation Volume Fraction Estimates for Modeling Vegetation Optical Depth. , 2021, , .		2

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37	IMPACT OF PERMITTIVITY PATTERNS ON FULLY POLARIMETRIC BRIGHTNESS TEMPERATURE SIGNATURES AT L-BAND. Progress in Electromagnetics Research, 2019, 166, 75-93.	4.4	1
38	Reconstruction of forest litter horizons using ground-penetrating radar. , 2015, , .		0
39	Vegetation Optical Depth and Soil Moisture Retrieval Using L-Band Radiometry Over the Entire Growing Season of a Winter Wheat Stand. , 2018, , .		0
40	Estimation Of Volume Fraction And Gravimetric Moisture Of Winter Wheat Based On Microwave Attenuation: A Field Scale Study. , 2019, , .		0
41	fUAS LiDAR Crop LAI Estimations from Canopy Density. , 2021, , .		0