

Martin SchrÄjn

List of Publications by Year in descending order

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29
papers

1,237
citations

394421

19
h-index

526287

27
g-index

70
all docs

70
docs citations

70
times ranked

1421
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the feasibility of a directional cosmic-ray neutron sensing sensor for estimating soil moisture. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2022, 11, 75-92.	1.6	7
2	COSMOS-Europe: a European network of cosmic-ray neutron soil moisture sensors. <i>Earth System Science Data</i> , 2022, 14, 1125-1151.	9.9	33
3	An environmental exploration system for visual scenario analysis of regional hydro-meteorological systems. <i>Computers and Graphics</i> , 2022, 103, 192-200.	2.5	4
4	Soil moisture observation in a forested headwater catchment: combining a dense cosmic-ray neutron sensor network with roving and hydrogravimetry at the TERENO site WÄ¼stebach. <i>Earth System Science Data</i> , 2022, 14, 2501-2519.	9.9	9
5	Soil Moisture and Air Humidity Dependence of the Above-Ground Cosmic-Ray Neutron Intensity. <i>Frontiers in Water</i> , 2021, 2, .	2.3	29
6	Editorial: Innovative Methods for Non-invasive Monitoring of Hydrological Processes From Field to Catchment Scale. <i>Frontiers in Water</i> , 2021, 3, .	2.3	0
7	Spatio-temporal soil moisture retrieval at the catchment scale using a dense network of cosmic-ray neutron sensors. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 4807-4824.	4.9	12
8	Accuracy and precision of the cosmicâ€ray neutron sensor for soil moisture estimation at humid environments. <i>Hydrological Processes</i> , 2021, 35, e14419.	2.6	11
9	Towards disentangling heterogeneous soil moisture patterns in cosmic-ray neutron sensor footprints. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6547-6566.	4.9	12
10	Neutrons on Rails: Transregional Monitoring of Soil Moisture and Snow Water Equivalent. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	14
11	Error Estimation for Soil Moisture Measurements With Cosmic Ray Neutron Sensing and Implications for Rover Surveys. <i>Frontiers in Water</i> , 2020, 2, .	2.3	33
12	A dense network of cosmic-ray neutron sensors for soil moisture observation in a highly instrumented pre-Alpine headwater catchment in Germany. <i>Earth System Science Data</i> , 2020, 12, 2289-2309.	9.9	44
13	Can Drip Irrigation be Scheduled with Cosmicâ€Ray Neutron Sensing?. <i>Vadose Zone Journal</i> , 2019, 18, 190053.	2.2	22
14	Sensing Areaâ€Average Snow Water Equivalent with Cosmicâ€Ray Neutrons: The Influence of Fractional Snow Cover. <i>Water Resources Research</i> , 2019, 55, 10796-10812.	4.2	30
15	Linking Remote Sensing and Geodiversity and Their Traits Relevant to Biodiversityâ€”Part I: Soil Characteristics. <i>Remote Sensing</i> , 2019, 11, 2356.	4.0	46
16	Field-Scale Assessment of Multi-Sensor Soil Moisture Retrieval Under Grassland. , 2018, , .		2
17	Synergies for Soil Moisture Retrieval Across Scales From Airborne Polarimetric SAR, Cosmic Ray Neutron Roving, and an In Situ Sensor Network. <i>Water Resources Research</i> , 2018, 54, 9364-9383.	4.2	32
18	Intercomparison of cosmic-ray neutron sensors and water balance monitoring in an urban environment. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2018, 7, 83-99.	1.6	44

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19	Cosmic-ray Neutron Rover Surveys of Field Soil Moisture and the Influence of Roads. <i>Water Resources Research</i> , 2018, 54, 6441-6459.	4.2	53
20	Uncertainty, sensitivity and improvements in soil moisture estimation with cosmic-ray neutron sensing. <i>Journal of Hydrology</i> , 2018, 564, 873-887.	5.4	60
21	Response functions for detectors in cosmic ray neutron sensing. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 902, 184-189.	1.6	31
22	The SCALEX Campaign: Scale-Crossing Land Surface and Boundary Layer Processes in the TERENO-preAlpine Observatory. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1217-1234.	3.3	49
23	Improving calibration and validation of cosmic-ray neutron sensors in the light of spatial sensitivity. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5009-5030.	4.9	93
24	Multiscale and Multivariate Evaluation of Water Fluxes and States over European River Basins. <i>Journal of Hydrometeorology</i> , 2016, 17, 287-307.	1.9	120
25	Monitoring Environmental Water with Ground Albedo Neutrons from Cosmic Rays. , 2016, , .		11
26	Footprint characteristics revised for field-scale soil moisture monitoring with cosmic-ray neutrons. <i>Water Resources Research</i> , 2015, 51, 5772-5790.	4.2	189
27	Computationally inexpensive identification of noninformative model parameters by sequential screening. <i>Water Resources Research</i> , 2015, 51, 6417-6441.	4.2	54
28	COLLECTIVE OUTFLOW FROM A SMALL MULTIPLE STELLAR SYSTEM. <i>Astrophysical Journal</i> , 2014, 788, 14.	4.5	35
29	MODELING JET AND OUTFLOW FEEDBACK DURING STAR CLUSTER FORMATION. <i>Astrophysical Journal</i> , 2014, 790, 128.	4.5	139