Markus KÃ¶hli

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/525542/publications.pdf

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21	730	687363 13	794594 19
papers	citations	h-index	g-index

40	40	40	666
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Footprint characteristics revised for fieldâ€scale soil moisture monitoring with cosmicâ€ray neutrons. Water Resources Research, 2015, 51, 5772-5790.	4.2	189
2	Improving calibration and validation of cosmic-ray neutron sensors in the light of spatial sensitivity. Hydrology and Earth System Sciences, 2017, 21, 5009-5030.	4.9	93
3	Cosmicâ€ray Neutron Rover Surveys of Field Soil Moisture and the Influence of Roads. Water Resources Research, 2018, 54, 6441-6459.	4.2	53
4	Intercomparison of cosmic-ray neutron sensors and water balance monitoring in an urban environment. Geoscientific Instrumentation, Methods and Data Systems, 2018, 7, 83-99.	1.6	44
5	A dense network of cosmic-ray neutron sensors for soil moisture observation in a highly instrumented pre-Alpine headwater catchment in Germany. Earth System Science Data, 2020, 12, 2289-2309.	9.9	44
6	The 10B based Jalousie neutron detector â€“ An alternative for 3He filled position sensitive counter tubes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 686, 151-155.	1.6	39
7	Efficiency and spatial resolution of the CASCADE thermal neutron detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 828, 242-249.	1.6	31
8	Response functions for detectors in cosmic ray neutron sensing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 902, 184-189.	1.6	31
9	Sensing Areaâ€Average Snow Water Equivalent with Cosmicâ€Ray Neutrons: The Influence of Fractional Snow Cover. Water Resources Research, 2019, 55, 10796-10812.	4.2	30
10	Soil Moisture and Air Humidity Dependence of the Above-Ground Cosmic-Ray Neutron Intensity. Frontiers in Water, 2021, 2, .	2.3	29
11	Large-Scale Boron-Lined Neutron Detection Systems as a 3He Alternative for Cosmic Ray Neutron Sensing. Frontiers in Water, 2020, 2, .	2.3	28
12	Can Drip Irrigation be Scheduled with Cosmicâ€Ray Neutron Sensing?. Vadose Zone Journal, 2019, 18, 190053.	2.2	22
13	Absolute efficiency measurements with the 10B based Jalousie detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 743, 90-95.	1.6	17
14	The Footprint Characteristics of Cosmic Ray Thermal Neutrons. Geophysical Research Letters, 2021, 48, e2021GL094281.	4.0	14
15	CASCADE - a multi-layer Boron-10 neutron detection system. Journal of Physics: Conference Series, 2016, 746, 012003.	0.4	12
16	Towards disentangling heterogeneous soil moisture patterns in cosmic-ray neutron sensor footprints. Hydrology and Earth System Sciences, 2021, 25, 6547-6566.	4.9	12
17	Monitoring Environmental Water with Ground Albedo Neutrons from Cosmic Rays. , 2016, , .		11
18	Using Additional Moderator to Control the Footprint of a COSMOS Rover for Soil Moisture Measurement. Water Resources Research, 2021, 57, e2020WR028478.	4.2	7

#	Article	IF	Citations
19	Assessing the feasibility of a directional cosmic-ray neutron sensing sensor for estimating soil moisture. Geoscientific Instrumentation, Methods and Data Systems, 2022, 11, 75-92.	1.6	7
20	Novel neutron detectors based on the time projection method. Physica B: Condensed Matter, 2018, 551, 517-522.	2.7	6
21	CRNS-based monitoring technologies for a weather and climate-resilient agriculture: realization by the ADAPTER project. , 2021, , .		3