

Markus KÄghli

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

730
citations

687363

13
h-index

794594

19
g-index

40
all docs

40
docs citations

40
times ranked

666
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	Soil Moisture and Air Humidity Dependence of the Above-Ground Cosmic-Ray Neutron Intensity. <i>Frontiers in Water</i> , 2021, 2, .	2.3	29
3	Using Additional Moderator to Control the Footprint of a COSMOS Rover for Soil Moisture Measurement. <i>Water Resources Research</i> , 2021, 57, e2020WR028478.	4.2	7
4	The Footprint Characteristics of Cosmic Ray Thermal Neutrons. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094281.	4.0	14
5	CRNS-based monitoring technologies for a weather and climate-resilient agriculture: realization by the ADAPTER project. , 2021, , .		3
6	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
7	Large-Scale Boron-Lined Neutron Detection Systems as a ³ He Alternative for Cosmic Ray Neutron Sensing. <i>Frontiers in Water</i> , 2020, 2, .	2.3	28
8	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
9	Can Drip Irrigation be Scheduled with Cosmic-Ray Neutron Sensing?. <i>Vadose Zone Journal</i> , 2019, 18, 190053.	2.2	22
10	Sensing Area-Average Snow Water Equivalent with Cosmic-Ray Neutrons: The Influence of Fractional Snow Cover. <i>Water Resources Research</i> , 2019, 55, 10796-10812.	4.2	30
11	Novel neutron detectors based on the time projection method. <i>Physica B: Condensed Matter</i> , 2018, 551, 517-522.	2.7	6
12	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
13	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
14	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
15	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
16	CASCADE - a multi-layer Boron-10 neutron detection system. <i>Journal of Physics: Conference Series</i> , 2016, 746, 012003.	0.4	12
17	Efficiency and spatial resolution of the CASCADE thermal neutron detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 828, 242-249.	1.6	31
18	Monitoring Environmental Water with Ground Albedo Neutrons from Cosmic Rays. , 2016, , .		11

#	ARTICLE	IF	CITATIONS
19	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
20	Absolute efficiency measurements with the 10B based Jalousie detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 743, 90-95.	1.6	17
21	The 10B based Jalousie neutron detector – An alternative for 3He filled position sensitive counter tubes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 686, 151-155.	1.6	39