

Darin Desilets

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,449
citations

567281

15
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1273
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring soil moisture content non-invasively at intermediate spatial scale using cosmic-ray neutrons. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	372
2	Nature's neutron probe: Land surface hydrology at an elusive scale with cosmic rays. <i>Water Resources Research</i> , 2010, 46, .	4.2	241
3	Spatial and temporal distribution of secondary cosmic-ray nucleon intensities and applications to in situ cosmogenic dating. <i>Earth and Planetary Science Letters</i> , 2003, 206, 21-42.	4.4	235
4	Footprint diameter for a cosmic-ray soil moisture probe: Theory and Monte Carlo simulations. <i>Water Resources Research</i> , 2013, 49, 3566-3575.	4.2	112
5	Status and Perspectives on the Cosmic-Ray Neutron Method for Soil Moisture Estimation and Other Environmental Science Applications. <i>Vadose Zone Journal</i> , 2017, 16, 1-11.	2.2	87
6	On scaling cosmogenic nuclide production rates for altitude and latitude using cosmic-ray measurements. <i>Earth and Planetary Science Letters</i> , 2001, 193, 213-225.	4.4	61
7	Snow shielding factors for cosmogenic nuclide dating inferred from Monte Carlo neutron transport simulations. <i>Earth and Planetary Science Letters</i> , 2013, 379, 64-71.	4.4	58
8	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
9	Field testing of the universal calibration function for determination of soil moisture with cosmic-ray neutrons. <i>Water Resources Research</i> , 2014, 50, 5235-5248.	4.2	43
10	Using Cosmic-Ray Neutron Probes to Monitor Landscape Scale Soil Water Content in Mixed Land Use Agricultural Systems. <i>Applied and Environmental Soil Science</i> , 2016, 2016, 1-11.	1.7	41
11	Modeling cosmic ray neutron field measurements. <i>Water Resources Research</i> , 2016, 52, 6451-6471.	4.2	36
12	Cosmic-ray neutron transport at a forest field site: the sensitivity to various environmental conditions with focus on biomass and canopy interception. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1875-1894.	4.9	31
13	Continuous and autonomous snow water equivalent measurements by a cosmic ray sensor on an alpine glacier. <i>Cryosphere</i> , 2019, 13, 3413-3434.	3.9	29
14	Comment on "Scaling factors for production rates of in situ produced cosmogenic nuclides: a critical reevaluation" by Tibor J. Dunai. <i>Earth and Planetary Science Letters</i> , 2001, 188, 283-287.	4.4	18
15	Cosmic Ray Neutron Soil Moisture Estimation Using Physically Based Site-Specific Conversion Functions. <i>Water Resources Research</i> , 2020, 56, e2019WR026588.	4.2	18
16	Autonomous ice sheet surface mass balance measurements from cosmic rays. <i>Cryosphere</i> , 2018, 12, 2099-2108.	3.9	14
17	Scientist water equivalent measured with cosmic rays at 2006 AGU Fall Meeting. <i>Eos</i> , 2007, 88, 521-522.	0.1	5
18	Snow water equivalent measurement in the Arctic based on cosmic ray neutron attenuation. <i>Cryosphere</i> , 2021, 15, 5227-5239.	3.9	2

#	ARTICLE	IF	CITATIONS
19	Brief communication: Application of a muonic cosmic ray snow gauge to monitor the snow water equivalent on alpine glaciers. Cryosphere, 2022, 16, 799-806.	3.9	2
20	Cosmic-ray neutron intensity measurements of soil moisture – A case study in the Skjern catchment, Denmark., 2014, , .		0