

Roland Baatz

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

827
citations

623734

14
h-index

940533

16
g-index

19
all docs

19
docs citations

19
times ranked

1115
citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy of the cosmic-ray soil water content probe in humid forest ecosystems: The worst case scenario. <i>Water Resources Research</i> , 2013, 49, 5778-5791.	4.2	164
2	Spatio-temporal soil moisture patterns – A meta-analysis using plot to catchment scale data. <i>Journal of Hydrology</i> , 2015, 520, 326-341.	5.4	124
3	An empirical vegetation correction for soil water content quantification using cosmic ray probes. <i>Water Resources Research</i> , 2015, 51, 2030-2046.	4.2	112
4	Calibration of a catchment scale cosmic-ray probe network: A comparison of three parameterization methods. <i>Journal of Hydrology</i> , 2014, 516, 231-244.	5.4	90
5	The TERENO – Rur Hydrological Observatory: A Multiscale Multi-Compartment Research Platform for the Advancement of Hydrological Science. <i>Vadose Zone Journal</i> , 2018, 17, 1-22.	2.2	81
6	Evaluation of a cosmic-ray neutron sensor network for improved land surface model prediction. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 2509-2530.	4.9	33
7	Investigating temporal field sampling strategies for site-specific calibration of three soil moisture – neutron intensity parameterisation methods. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3203-3216.	4.9	30
8	On the Information Content of Cosmic-Ray Neutron Data in the Inverse Estimation of Soil Hydraulic Properties. <i>Vadose Zone Journal</i> , 2019, 18, 1-24.	2.2	29
9	Soil Moisture and Air Humidity Dependence of the Above-Ground Cosmic-Ray Neutron Intensity. <i>Frontiers in Water</i> , 2021, 2, .	2.3	29
10	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. <i>Earth System Dynamics</i> , 2018, 9, 593-609.	7.1	28
11	Leveraging Environmental Research and Observation Networks to Advance Soil Carbon Science. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1047-1055.	3.0	24
12	Reanalysis in Earth System Science: Toward Terrestrial Ecosystem Reanalysis. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000715.	23.0	24
13	Spatio-temporal drivers of soil and ecosystem carbon fluxes at field scale in an upland grassland in Germany. <i>Agriculture, Ecosystems and Environment</i> , 2015, 211, 84-93.	5.3	23
14	Evaluation and uncertainty analysis of regional-scale CLM4.5 net carbon flux estimates. <i>Biogeosciences</i> , 2018, 15, 187-208.	3.3	18
15	Remote Sensing of Geomorphodiversity Linked to Biodiversity – Part III: Traits, Processes and Remote Sensing Characteristics. <i>Remote Sensing</i> , 2022, 14, 2279.	4.0	13
16	The Importance of Subsurface Processes in Land Surface Modeling over a Temperate Region: An Analysis with SMAP, Cosmic Ray Neutron Sensing and Triple Collocation Analysis. <i>Remote Sensing</i> , 2021, 13, 3068.	4.0	3
17	Mapping near-surface soil moisture in a Mediterranean agroforestry ecosystem using Cosmic-Ray Neutron Probe and Sentinel-1 Data. , 2020, , .		1
18	New Insights into Terrestrial Ecosystems Through Reanalysis. <i>Eos</i> , 2021, 102, .	0.1	0