

Niklas Allroggen

List of Publications by Year in descending order

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papers

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times ranked

448
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | HESS Opinions: From response units to functional units: a thermodynamic reinterpretation of the HRU concept to link spatial organization and functioning of intermediate scale catchments. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4635-4655. | 4.9 | 78 |
| 2 | Form and function in hillslope hydrology: characterization of subsurface flow based on response observations. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3727-3748. | 4.9 | 47 |
| 3 | Picturing and modeling catchments by representative hillslopes. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1225-1249. | 4.9 | 42 |
| 4 | Form and function in hillslope hydrology: in situ imaging and characterization of flow-relevant structures. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3749-3775. | 4.9 | 39 |
| 5 | 4D ground-penetrating radar during a plot scale dye tracer experiment. <i>Journal of Applied Geophysics</i> , 2015, 118, 139-144. | 2.1 | 29 |
| 6 | Topographic migration of 2D and 3D ground-penetrating radar data considering variable velocities. <i>Near Surface Geophysics</i> , 2015, 13, 253-259. | 1.2 | 27 |
| 7 | Attribute-based analysis of time-lapse ground-penetrating radar data. <i>Geophysics</i> , 2016, 81, H1-H8. | 2.6 | 25 |
| 8 | 3D ground-penetrating radar imaging of ice complex deposits in northern East Siberia. <i>Geophysics</i> , 2016, 81, WA195-WA202. | 2.6 | 12 |
| 9 | Origin of Bentonites and Detrital Zircons of the Paleocene Basilika Formation, Svalbard. <i>Frontiers in Earth Science</i> , 2016, 4, . | 1.8 | 9 |
| 10 | Ground-penetrating radar monitoring of fast subsurface processes. <i>Geophysics</i> , 2020, 85, A19-A23. | 2.6 | 8 |
| 11 | 3D ground-penetrating radar attributes to generate classified facies models: A case study from a dune island. <i>Geophysics</i> , 2021, 86, B335-B347. | 2.6 | 7 |
| 12 | Toward automated delineation of ground-penetrating radar facies in clastic sediments: An example from stratified glaciofluvial deposits. <i>Geophysics</i> , 2015, 80, A89-A94. | 2.6 | 6 |
| 13 | Rapid multi-scale analysis of near-surface geophysical anomaly maps: Application to an archaeo-geophysical data set. <i>Geophysics</i> , 0, , 1-41. | 2.6 | 5 |
| 14 | Four-dimensional gridding of time-lapse GPR data. , 2017, , . | | 4 |
| 15 | High-resolution imaging and monitoring of animal tunnels using 3D ground-penetrating radar. <i>Near Surface Geophysics</i> , 2019, 17, 291-298. | 1.2 | 4 |
| 16 | The redundant wavelet transform to process and interpret GPR data. , 2020, , . | | 3 |
| 17 | 3D ground-penetrating radar attribute classification: A case study from a paleokarst breccia pipe in the Billefjorden area on Spitsbergen, Svalbard. <i>Geophysics</i> , 2022, 87, WB19-WB30. | 2.6 | 2 |
| 18 | Topographic migration of GPR data with variable velocities. , 2013, , . | | 1 |

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|----|--|-----|-----------|
| 19 | Time-lapse 3D GPR imaging of brilliant blue infiltration experiments. , 2014, , . | | 1 |
| 20 | Spectral enhancement of GPR data: Some practical considerations. , 2015, , . | | 1 |
| 21 | A physical modeling study to analyze the horizontal resolution limits of GPR reflection imaging. , 2017, , . | | 1 |
| 22 | Analysis of time-lapse GPR data to visualize preferential flow paths. , 2015, , . | | 0 |
| 23 | Estimating moisture changes in concrete using GPR velocity analysis: potential and limitations. , 2018, , . | | 0 |
| 24 | Crosshole reflection imaging with ground-penetrating radar data: Applications in near-surface sedimentary settings. Geophysics, 2020, 85, H61-H69. | 2.6 | 0 |