

Mike MÃ¼ller-Petke

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

615
citations

623734

14
h-index

610901

24
g-index

31
all docs

31
docs citations

31
times ranked

354
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Acquisition and Signal Processing Methods for Electromagnetic Noise Reduction and Retrieval of Surface Nuclear Magnetic Resonance Parameters. <i>Surveys in Geophysics</i> , 2022, 43, 999-1053.	4.6	9
2	Improved hydrogeophysical imaging by structural coupling of 2D magnetic resonance and electrical resistivity tomography. <i>Geophysics</i> , 2021, 86, WB77-WB88.	2.6	3
3	Feasibility study on prepolarized surface nuclear magnetic resonance for soil moisture measurements. <i>Vadose Zone Journal</i> , 2021, 20, e20138.	2.2	5
4	First Measurements of Surface Nuclear Magnetic Resonance Signals Without an Oscillating Excitation Pulse – Exploiting Non-Adiabatic Prepolarization Switch-Off. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095371.	4.0	4
5	Magnetic resonance tomography constrained by ground-penetrating radar for improved hydrogeophysical characterization. <i>Geophysics</i> , 2020, 85, JM13-JM26.	2.6	10
6	Utilizing pre-polarization to enhance SNMR signals – effect of imperfect switch-off. <i>Geophysical Journal International</i> , 2020, 222, 815-826.	2.4	13
7	Application of adiabatic pulses for magnetic Resonance Sounding – Pulse shapes and resolution. <i>Journal of Applied Geophysics</i> , 2020, 179, 104079.	2.1	1
8	A fast multi-exponential inversion of magnetic resonance sounding using iterative Lanczos bidiagonalization algorithm. <i>Journal of Applied Geophysics</i> , 2020, 175, 103985.	2.1	1
9	Coupled magnetic resonance and electrical resistivity tomography: An open-source toolbox for surface nuclear-magnetic resonance. <i>Geophysics</i> , 2020, 85, F53-F64.	2.6	12
10	Non-remote reference noise cancellation - using reference data in the presence of surface-NMR signals. <i>Journal of Applied Geophysics</i> , 2020, 177, 104040.	2.1	7
11	First Measurements of Surface Nuclear Magnetic Resonance Signals in a Grounded Bipole. <i>Geophysical Research Letters</i> , 2019, 46, 9620-9627.	4.0	5
12	Surface Nuclear Magnetic Resonance Measurements in Berlin - Proof-Of-Concept for Applying the Prepolarisation Technique in Urban Areas. , 2019, , .		5
13	Two-dimensional QT inversion of complex magnetic resonance tomography data. <i>Geophysics</i> , 2018, 83, JM65-JM75.	2.6	12
14	Enabling surface nuclear magnetic resonance at high-noise environments using a pre-polarization pulse. <i>Geophysical Journal International</i> , 2018, 212, 1463-1467.	2.4	30
15	Structurally coupled cooperative inversion of magnetic resonance with resistivity soundings. <i>Geophysics</i> , 2018, 83, JM51-JM63.	2.6	10
16	Frequency cycling to alleviate unknown frequency offsets for adiabatic half-passage pulses in surface nuclear magnetic resonance. <i>Geophysics</i> , 2018, 83, JM29-JM38.	2.6	3
17	Successful Sampling Strategy Advances Laboratory Studies of NMR Logging in Unconsolidated Aquifers. <i>Geophysical Research Letters</i> , 2017, 44, 11,021.	4.0	7
18	Frequency cycling for compensation of undesired off-resonance effects in surface nuclear magnetic resonance. <i>Geophysics</i> , 2016, 81, WB33-WB48.	2.6	18

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19	MRSmatlab – A software tool for processing, modeling, and inversion of magnetic resonance sounding data. <i>Geophysics</i> , 2016, 81, WB9-WB21.	2.6	70
20	Magnetic resonance tomography using elongated transmitter and in-loop receiver arrays for time-efficient 2-D imaging of subsurface aquifer structures. <i>Geophysical Journal International</i> , 2015, 200, 824-836.	2.4	37
21	Tools and Techniques: Nuclear Magnetic Resonance. , 2015, , 419-445.		7
22	Imaging shallow three dimensional water-bearing structures using magnetic resonance tomography. <i>Journal of Applied Geophysics</i> , 2015, 116, 17-27.	2.1	28
23	Nuclear magnetic resonance average pore-size estimations outside the fast-diffusion regime. <i>Geophysics</i> , 2015, 80, D195-D206.	2.6	32
24	First evidence of detecting surface nuclear magnetic resonance signals using a compact B-field sensor. <i>Geophysical Research Letters</i> , 2014, 41, 4222-4229.	4.0	21
25	Two-dimensional distribution of relaxation time and water content from surface nuclear magnetic resonance. <i>Near Surface Geophysics</i> , 2014, 12, 231-241.	1.2	37
26	Joint parameter estimation from magnetic resonance and vertical electric soundings using a multi-objective genetic algorithm. <i>Geophysical Prospecting</i> , 2014, 62, 364-376.	1.9	34
27	Improved prediction of hydraulic conductivity for coarse-grained, unconsolidated material from nuclear magnetic resonance. <i>Geophysics</i> , 2013, 78, EN55-EN64.	2.6	41
28	Detecting unfrozen sediments below thermokarst lakes with surface nuclear magnetic resonance. <i>Geophysical Research Letters</i> , 2013, 40, 535-540.	4.0	45
29	Hydraulic properties at the North Sea island of Borkum derived from joint inversion of magnetic resonance and electrical resistivity soundings. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3279-3291.	4.9	48
30	Reliability and limitations of surface NMR assessed by comparison to borehole NMR. <i>Near Surface Geophysics</i> , 2011, 9, 123-134.	1.2	20
31	Evaluation of surface nuclear magnetic resonance-estimated subsurface water content. <i>New Journal of Physics</i> , 2011, 13, 095002.	2.9	40