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Atmospheric muons as an imaging tool

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#	Paper	IF	Citations
55	Muography and Its Potential Applications to Mining and Rock Engineering. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 4893-4907	5.7	3
54	Nonparametric Dense-Object Detection Algorithm for Applications of Cosmic-Ray Muon Tomography. <i>Physical Review Applied</i> , 2020 , 14,	4.3	
53	Multidisciplinary applications of muon radiography using the MIMA detector. <i>Journal of Instrumentation</i> , 2020 , 15, C05030-C05030	1	3
52	The Giessen Cosmic Station A muon telescope for tests of particle detectors. <i>Journal of Instrumentation</i> , 2020 , 15, C06025-C06025	1	1
51	Proof-of-Principle of a Cherenkov-Tag Detector Prototype. <i>Sensors</i> , 2020 , 20,	3.8	2
50	A comparison of algebraic reconstruction techniques for a single-detector muon computed tomography system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 987, 164834	1.2	
49	Research Progress of Cosmic Ray Muon Muography Technology. <i>Advances in Geosciences</i> , 2021 , 11, 505-513	1.3	
48	Toward Machine Learning Optimization of Experimental Design. <i>Nuclear Physics News</i> , 2021 , 31, 25-28	0.7	4
47	Multi-modal imaging of muon based on scattering and secondary induced neutrons. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021 , 70, 191401-191401	0.6	
46	GGs: A Generic Geant4 Simulation package for small- and medium-sized particle detection experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 1002, 165298	1.2	3
45	Simulated Annealing for volcano muography. <i>Journal of South American Earth Sciences</i> , 2021 , 109, 103248	1.3	1
44	Alteration-Induced Volcano Instability at La Soufrière de Guadeloupe (Eastern Caribbean). <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022514	3.6	8
43	A new cylindrical borehole detector for radiographic imaging with muons. <i>Scientific Reports</i> , 2021 , 11, 17425	4.9	1
42	The reliability of muography applied in the detection of the animal burrows within River Levees validated by means of geophysical techniques. <i>Journal of Applied Geophysics</i> , 2021 , 191, 104376	1.7	2
41	High Time-Resolution Readout Integrated Circuit Using DLL for Portable Cosmic Ray Muon Detection. <i>IEEE Transactions on Nuclear Science</i> , 2021 , 68, 2268-2278	1.7	
40	Numerical evaluation of a muon tomography system for imaging defects in concrete structures. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	0
39	A portable muon telescope for exploration geophysics in confined environments. 2021 ,		0

38	Design and construction of MuTe: a hybrid Muon Telescope to study Colombian volcanoes. <i>Journal of Instrumentation</i> , 2020 , 15, P09006-P09006	1	5
37	Towards portable muography with small-area, gas-tight glass Resistive Plate Chambers. <i>Journal of Instrumentation</i> , 2020 , 15, C10032-C10032	1	6
36	Muon absorption tomography of a lead structure through the use of iterative algorithms. <i>Journal of Instrumentation</i> , 2020 , 15, P12024-P12024	1	2
35	Muon tomography in geoscientific research [A guide to best practice. <i>Earth-Science Reviews</i> , 2021 , 222, 103842	10.2	3
34	Muography as a new complementary tool in monitoring volcanic hazard: implications for early warning systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477,	2.4	1
33	Principles and Perspectives of Radiographic Imaging with Muons.. <i>Journal of Imaging</i> , 2021 , 7,	3.1	1
32	End-to-end simulations of the MUon RAdiography of VESuvius experiment. <i>Journal of Instrumentation</i> , 2022 , 17, C01015	1	
31	Characterization of the background for a neutrino search with the HAWC observatory. <i>Astroparticle Physics</i> , 2022 , 137, 102670	2.4	0
30	A portable muon telescope for multidisciplinary applications. <i>Journal of Instrumentation</i> , 2022 , 17, C01051		0
29	Muography of the Volcanic Structure of the Summit of Vesuvius, Italy. <i>Geophysical Monograph Series</i> , 2022 , 123-136	1.1	1
28	Resistive Plate Chambers in Muography. <i>Geophysical Monograph Series</i> , 2022 , 253-265	1.1	
27	Future Prospects of Muography for Geological Research and Geotechnical and Mining Engineering. <i>Geophysical Monograph Series</i> , 2022 , 199-219	1.1	0
26	Effect of passive metallic layers on muon energy estimation by means of deflection angle for muon scattering tomography: a comparative study based on GEANT4 simulations. <i>Journal of Instrumentation</i> , 2022 , 17, C02008	1	0
25	An integrated system for non-destructive detection of shielded nuclear material using multiple modes of passive detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022 , 166635	1.2	
24	Development and commissioning of a compact Cosmic Ray Muon imaging prototype. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022 , 166720	1.2	1
23	BLEMAB European project: muon imaging technique applied to blast furnaces. <i>Journal of Instrumentation</i> , 2022 , 17, C04031	1	
22	The PUMAS library. <i>Computer Physics Communications</i> , 2022 , 279, 108438	4.2	0
21	Non-destructive interrogation of nuclear waste barrels through muon tomography: A Monte Carlo study based on dual-parameter analysis via GEANT4 simulations.		0

- 20 Measurement of energy differential spectrum of cosmic-ray muons below 400 MeV. **2022**, 17, P08009
- 19 Simulation study on position resolution of plastic scintillator strips for cosmic muon imaging. **2022**, 1042, 167455 ○
- 18 Portable Resistive Plate Chambers for Muography in confined environments. **2022**, 357, 01001 ○
- 17 DOME: Discrete Oriented Muon Emission in GEANT4 Simulations. **2022**, 6, 42 ○
- 16 Magnetic Field Imaging by Cosmic-ray Muon (Magic- μ) [Concept and overview] **2021**, ○
- 15 Energy difference between hodoscope sections in muon tomography: Application for nuclear waste barrels by means of GEANT4 simulations. ○
- 14 Experimental Research on Material distinguishment Based on Muon Discrete Energy. **2023**, 0 ○
- 13 The ARTI framework: cosmic rays atmospheric background simulations. **2022**, 82, ○
- 12 Development of a muon tomography application with Micromegas detectors. **2022**, 2375, 012007 ○
- 11 Atmospheric Muon Flux Measurement near Earth's Equatorial Line. **2022**, 6, 78 ○
- 10 A machine learning approach to joint gravity and cosmic-ray muon inversion at Mt. Usu, Japan.. ○
- 9 Non-destructive interrogation of nuclear waste barrels through muon tomography: a Monte Carlo study based on dual-parameter analysis via GEANT4 simulations. **2022**, 17, P12005 ○
- 8 Three-dimensional muon imaging of cavities inside the Temperino mine (Italy). **2022**, 12, ○
- 7 Calculation of the high-energy neutron flux for anticipating errors and recovery techniques in exascale supercomputer centres. ○
- 6 High-precision muography in archaeogeophysics: A case study on Xi'an defensive walls. **2023**, 133, 014901 ○
- 5 Using Cosmic Rays to See the Unseeable. **2023**, 61, 249-252 ○
- 4 Concept design and feasibility study of novel calorimeter-type borehole muon detector. **2023**, 1049, 168074 ○
- 3 3D imaging of a nuclear reactor using muography measurements. **2023**, 9, ○

- 2 Particle generation through energy discretization and restrictive planes in GEANT4 simulations for potential applications of cosmic ray muon tomography. **2023**, 2438, 012150 ○
- 1 Cosmic-Ray Tomography for Border Security. **2023**, 7, 13 ○