Krzysztof Pelczar

List of Publications by Year in descending order

39 papers	1,116 citations	567281 15 h-index	377865 34 g-index
39 all docs	39 docs citations	39 times ranked	1182 citing authors

#	Article	IF	Citations
1	DarkSide-20k: A 20 tonne two-phase LAr TPC for direct dark matter detection at LNGS. European Physical Journal Plus, 2018, 133, 1.	2.6	247
2	The Gerda experiment for the search of 0Î½Î²Î² decay in 76Ge. European Physical Journal C, 2013, 73, 1.	3.9	181
3	Probing the Symmetry Energy with the Spectral Pion Ratio. Physical Review Letters, 2021, 126, 162701.	7.8	95
4	Pulse shape discrimination for Gerda Phase I data. European Physical Journal C, 2013, 73, 1.	3.9	73
5	The background in the $$0u eta eta $$ 0 Î½ Î² Î² experiment Gerda. European Physical Journal C, 2014, 74, 1.	3.9	66
6	Results on $$eta eta $$ Î² Î² decay with emission of two neutrinos or Majorons in ^{76} 76 Ge from GERDA PhaseÂI. European Physical Journal C, 2015, 75, 1.	3.9	62
7	Production, characterization and operation of ^{76} 76 Ge enriched BEGe detectors in GERDA. European Physical Journal C, 2015, 75, 1.	3.9	55
8	Symmetry energy investigation with pion production from Sn+Sn systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136016.	4.1	40
9	Improvement of the energy resolution via an optimized digital signal processing in GERDA PhaseÂI. European Physical Journal C, 2015, 75, 1.	3.9	30
10	Mitigation of ^{42}42Ar/^{42}42K background for the GERDA Phase II experiment. European Physical Journal C, 2018, 78, 1.	3.9	23
11	The DarkSide Multiton Detector for the Direct Dark Matter Search. Advances in High Energy Physics, 2015, 2015, 1-8.	1.1	21
12	First Search for Bosonic Superweakly Interacting Massive Particles with Masses up to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>MeV<... with GERDA. Physical Review Letters, 2020, 125, 011801.	7.8	20
13	SiPM-matrix readout of two-phase argon detectors using electroluminescence in the visible and near infrared range. European Physical Journal C, 2021, 81, 1.	3.9	18
14	On the recent claim of correlation between radioactive decay rates and space weather. European Physical Journal C, 2020, 80, 1.	3.9	17
15	Limit on the radiative neutrinoless double electron capture of ^{36} 36 Ar from GERDA PhaseÂI. European Physical Journal C, 2016, 76, 1.	3.9	15
16	Sensitivity of future liquid argon dark matter search experiments to core-collapse supernova neutrinos. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 043.	5.4	12
17	Separating $${^{39}hbox {Ar}}$$ from $${^{40}hbox {Ar}}$$ by cryogenic distillation with Aria for dark-matter searches. European Physical Journal C, 2021, 81, 1.	3.9	12
18	Studies of surface and bulk 210 Po in metals using an ultra-low background large surface alpha spectrometer. Applied Radiation and Isotopes, 2017, 126, 165-167.	1.5	10

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19	Empirical decomposition and error propagation of medium-term instabilities in half-life determinations. Metrologia, 2021, 58, 035012.	1.2	10
20	Radon Mitigation Applications at the Laboratorio SubterrÃ¡neo de Canfranc (LSC). Universe, 2022, 8, 112.	2.5	10
21	Beam commissioning of the SÏ€RIT time projection chamber. Journal of the Korean Physical Society, 2016, 69, 144-151.	0.7	9
22	KATANA â€“ A charge-sensitive triggering system for the SÏ€RIT experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 856, 92-98.	1.6	9
23	Extending the dynamic range of electronics in a Time Projection Chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 944, 162509.	1.6	9
24	On the interpretation of annual oscillations in 32Si and 36Cl decay rate measurements. Scientific Reports, 2021, 11, 16002.	3.3	9
25	Calibration of the Gerda experiment. European Physical Journal C, 2021, 81, 682.	3.9	9
26	Optimization of low-background alpha spectrometers for analysis of thick samples. Applied Radiation and Isotopes, 2013, 81, 146-150.	1.5	8
27	Role of ambient humidity underestimated in research on correlation between radioactive decay rates and space weather. Scientific Reports, 2022, 12, 2527.	3.3	8
28	An online radon monitor for low-background detector assembly facilities. European Physical Journal C, 2021, 81, 1.	3.9	7
29	Characterization of inverted coaxial ^{76}Ge detectors in GERDA for future double-$$eta $$ decay experiments. European Physical Journal C, 2021, 81, 505.	3.9	7
30	The SÏ€RIT time projection chamber. Review of Scientific Instruments, 2021, 92, 063302.	1.3	6
31	Measurement of the 145Sm half-life. Applied Radiation and Isotopes, 2021, 178, 109978.	1.5	6
32	Rapidity distributions of Zâ€¯=â€¯1 isotopes and the nuclear symmetry energy from Sn+Sn collisions with radioactive beams at 270 MeV/nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136681.	4.1	5
33	Air humidity and annual oscillations in 90Sr/90Y and 60Co decay rate measurements. Scientific Reports, 2022, 12, .	3.3	4
34	Short-lived Rn-222 daughters in cryogenic liquids. , 2013, , .		1
35	Mobility and lifetime of 220Rn daughters. AIP Conference Proceedings, 2018, , .	0.4	1
36	Removal of 222Rn daughters from metal surfaces. AIP Conference Proceedings, 2018, , .	0.4	1

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37	Search for neutrinoless double beta decay with GERDA phase II. AIP Conference Proceedings, 2017, , .	0.4	0
38	The DarkSide direct dark matter search with liquid argon. AIP Conference Proceedings, 2017, , .	0.4	0
39	THE DARKSIDE-50 EXPERIMENT: A LIQUID ARGON TARGET FOR DARK MATTER PARTICLES. , 2017, , 355-360.		0