

Leszek Grzanka

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,046
citations

361413

20
h-index

233421

45
g-index

61
all docs

61
docs citations

61
times ranked

4922
citing authors

#	ARTICLE	IF	CITATIONS
1	First measurement of the total proton-proton cross-section at the LHC energy of $\sqrt{s} = 7, \text{TeV}$. <i>Europhysics Letters</i> , 2011, 96, 21002.	2.0	236
2	Measurement of proton-proton elastic scattering and total cross-section at $\sqrt{s} = 7, \text{TeV}$. <i>Europhysics Letters</i> , 2013, 101, 21002.	2.0	197
3	Luminosity-Independent Measurement of the Proton-Proton Total Cross Section at $\sqrt{s} = 7, \text{TeV}$. <i>Physical Review Letters</i> , 2013, 111, 012001.	7.8	187
4	Luminosity-independent measurements of total, elastic and inelastic cross-sections at $\sqrt{s} = 7, \text{TeV}$. <i>Europhysics Letters</i> , 2013, 101, 21004.	2.0	176
5	Proton-proton elastic scattering at the LHC energy of $\sqrt{s} = 7, \text{TeV}$. <i>Europhysics Letters</i> , 2011, 95, 41001.	2.0	150
6	Evidence for non-exponential elastic proton-proton differential cross-section at low $ t $ and $\sqrt{s} = 7, \text{TeV}$. <i>Nuclear Physics B</i> , 2015, 899, 527-546.	2.0	25
7	Measurement of elastic pp scattering at $\sqrt{s} = 8 \text{ TeV}$ in the Coulomb-nuclear interference region: determination of the ρ -parameter and the total cross-section. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	88
8	Measurement of proton-proton inelastic scattering cross-section at $\sqrt{s} = 7, \text{TeV}$. <i>Europhysics Letters</i> , 2013, 101, 21003.	2.0	70
9	Relative biological effectiveness (RBE) and distal edge effects of proton radiation on early damage <i>in vivo</i> . <i>Acta Oncologica</i> , 2017, 56, 1387-1391.	1.8	64
10	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 7, \text{TeV}$. <i>Physical Review Letters</i> , 2020, 124, 131802.	7.8	61
11	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	49
12	A systematic review on the usage of averaged LET in radiation biology for particle therapy. <i>Radiotherapy and Oncology</i> , 2021, 161, 211-221.	0.6	44
13	Facility for proton radiotherapy of eye cancer at IFJ PAN in Krakow. <i>Radiation Measurements</i> , 2010, 45, 1469-1471.	1.4	36
14	Measurement of the forward charged-particle pseudorapidity density in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the TOTEM experiment. <i>Europhysics Letters</i> , 2012, 98, 31002.	2.0	34
15	Double Diffractive Cross-Section Measurement in the Forward Region at the LHC. <i>Physical Review Letters</i> , 2013, 111, 262001.	7.8	34
16	Amorphous track models: A numerical comparison study. <i>Radiation Measurements</i> , 2010, 45, 1406-1409.	1.4	31
17	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$. <i>European Physical Journal C</i> , 2020, 80, 189.	3.9	22
18	Observation of a New Excited Beauty Strange Baryon Decaying to $\Lambda_c^+ \bar{c} s$. <i>Physical Review Letters</i> , 2021, 126, 252003.	7.8	22

#	ARTICLE	IF	CITATIONS
19	Elastic Scattering and Total Cross-Section in p+p Reactions. Progress of Theoretical Physics Supplement, 2012, 193, 180-183. Search for a Light Charged Higgs Boson Decaying to a W Boson and a P -Odd Higgs Boson in Final States with e	0.1	21
20	PERFORMANCE OF THE TOTEM DETECTORS AT THE LHC. International Journal of Modern Physics A, 2013, 28, 1330046.	7.8	21
21	Diamond detectors for the TOTEM timing upgrade. Journal of Instrumentation, 2017, 12, P03007-P03007.	1.5	20
22	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 151802.	1.2	20
23	Towards harmonizing clinical linear energy transfer (LET) reporting in proton radiotherapy: a European multi-centric study. Acta Oncologica, 2022, 61, 206-214.	7.8	20
24	Differential gene expression in primary fibroblasts induced by proton and cobalt-60 beam irradiation. Acta Oncologica, 2017, 56, 1406-1412.	1.8	18
25	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 127, 261804.	1.8	17
26	Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2021, 127, 122001.	7.8	17
27	MONTE CARLO SIMULATIONS OF SPATIAL LET DISTRIBUTIONS IN CLINICAL PROTON BEAMS. Radiation Protection Dosimetry, 2018, 180, 296-299.	7.8	16
28	Relative biological effectiveness of the 60-MeV therapeutic proton beam at the Institute of Nuclear Physics (IFJ PAN) in Kraków, Poland. Radiation and Environmental Biophysics, 2014, 53, 745-754.	0.8	15
29	Proton scanning and X-ray beam irradiation induce distinct regulation of inflammatory cytokines in a preclinical mouse model. International Journal of Radiation Biology, 2020, 96, 1238-1244.	1.4	14
30	Observation of the $B \rightarrow X$ decays. Letters, 2020, 125, 152001.	1.8	14
31	LHC optics measurement with proton tracks detected by the Roman pots of the TOTEM experiment. New Journal of Physics, 2014, 16, 103041.	7.8	14
32	Measurement of the forward charged particle pseudorapidity density in pp collisions at $\sqrt{s} = 8$ TeV using a displaced interaction point. European Physical Journal C, 2015, 75, 1.	2.9	13
33	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at $\sqrt{s} = 13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2020, 124, 202001.	3.9	13
34	Measurement of the W Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002.	7.8	13
35	The TOTEM detector at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 62-66.	7.8	13
36		1.6	12

#	ARTICLE	IF	CITATIONS
55	The application of amorphous track models to study cell survival in heavy ions beams. Radiation Protection Dosimetry, 2011, 143, 232-236.	0.8	3
56	A TPS kernel for calculating survival vs. depth: distributions in a carbon radiotherapy beam, based on Katz's cellular Track Structure Theory. Radiation Protection Dosimetry, 2015, 166, 347-350.	0.8	3
57	A numerical method to optimise the spatial dose distribution in carbon ion radiotherapy planning. Radiation Protection Dosimetry, 2015, 166, 351-355.	0.8	2
58	Status of the TOTEM experiment at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 21-25.	1.6	1
59	Calculation of the Beam-Modulation Effect of the Lung in Carbon Ion and Proton Therapy With Deterministic Pencil Beam Algorithms. Frontiers in Physics, 2020, 8, .	2.1	1
60	Comment to the article "Inactivation cross section induced by heavy ions of different energies in bacterial cells of E. coli: An analytical approach" by Awad and Abu-Shady. Nuclear Instruments & Methods in Physics Research B, 2020, 473, 62-63.	1.4	0
61	Offline Software for the TOTEM Experiment at the LHC. , 2010, , .		0