

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	Towards harmonizing clinical linear energy transfer (LET) reporting in proton radiotherapy: a European multi-centric study. <i>Acta Oncologica</i> , 2022, 61, 206-214.	1.8	18
2	Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions. <i>Physical Review Letters</i> , 2022, 128, 122301.	7.8	11
3	The very forward CASTOR calorimeter of the CMS experiment. <i>Journal of Instrumentation</i> , 2021, 16, P02010-P02010.	1.2	10
4	Measurement of the W^3 Production Cross Section in Proton-Proton Collisions at $\sqrt{s}=13$ TeV and Constraints on Effective Field Theory Coefficients. <i>Physical Review Letters</i> , 2021, 126, 252002.	7.8	13
5	Observation of a New Excited Beauty Strange Baryon Decaying to $\bar{c}b\bar{s}$. <i>Physical Review Letters</i> , 2021, 126, 252003.	7.8	22
6	Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13$. <i>Journal of Instrumentation</i> , 2021, 16, P07001. <i>Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at $\sqrt{s} = 13$ TeV</i> . <i>Physical Review Letters</i> , 2021, 127, 102002.	1.2	6
7	Z -Boson Yields and Azimuthal Anisotropy at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2021, 127, 102002.	7.8	5
8	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
9	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 688.	3.9	9
10	Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. <i>Physical Review Letters</i> , 2021, 127, 122001.	7.8	16
11	Biological Impact of Target Fragments on Proton Treatment Plans: An Analysis Based on the Current Cross-Section Data and a Full Mixed Field Approach. <i>Cancers</i> , 2021, 13, 4768.	3.7	5
12	Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV Using Leptonic Decays. <i>Physical Review Letters</i> , 2021, 127, 191801.	7.8	6
13	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2021, 127, 261804.	7.8	17
14	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 151802.	7.8	20
15	FLUKA simulation of target fragmentation in proton therapy. <i>Physica Medica</i> , 2020, 80, 342-346.	0.7	8
16	Proton scanning and X-ray beam irradiation induce distinct regulation of inflammatory cytokines in a preclinical mouse model. <i>International Journal of Radiation Biology</i> , 2020, 96, 1238-1244. <i>Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 13$ TeV</i> . <i>Physical Review Letters</i> , 2020, 125, 152001.	1.8	14
17	Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 152001.	7.8	13
18	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 152001.	7.8	14

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19	Calculation of the Beam-Modulation Effect of the Lung in Carbon Ion and Proton Therapy With Deterministic Pencil Beam Algorithms. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	1
20	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. <i>Physical Review Letters</i> , 2020, 125, 222001.	7.8	7
21	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 189.	3.9	22
22	Comment to the article "Inactivation cross section induced by heavy ions of different energies in bacterial cells of <i>E. coli</i> : An analytical approach" by Awad and Abu-Shady. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 473, 62-63. www.w3.org/1998/Math/MathML	1.4	0
23	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 189.	3.9	22
24	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2020, 124, 131802. www.w3.org/1998/Math/MathML	7.8	61
25	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2020, 124, 131802. www.w3.org/1998/Math/MathML	7.8	21
26	Comparison of Coding Transcriptomes in Fibroblasts Irradiated With Low and High LET Proton Beams and Cobalt-60 Photons. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 103, 1203-1211.	0.8	7
27	THE ROLE OF PARTICLE SPECTRA IN MODELING THE RELATIVE BIOLOGICAL EFFECTIVENESS OF PROTON RADIOTHERAPY BEAMS. <i>Radiation Protection Dosimetry</i> , 2019, 183, 251-254.	0.8	5
28	MONTE CARLO SIMULATIONS OF SPATIAL LET DISTRIBUTIONS IN CLINICAL PROTON BEAMS. <i>Radiation Protection Dosimetry</i> , 2018, 180, 296-299.	0.8	15
29	RADIOTHERAPY PROTON BEAM PROFILOMETRY WITH scCVD DIAMOND DETECTOR IN SINGLE PARTICLE MODE. <i>Radiation Protection Dosimetry</i> , 2018, 180, 282-285.	0.8	8
30	Validation of new 2D ripple filters in proton treatments of spherical geometries and non-small cell lung carcinoma cases. <i>Physics in Medicine and Biology</i> , 2018, 63, 245020.	3.0	6
31	Optimal reference genes for normalization of qPCR gene expression data from proton and photon irradiated dermal fibroblasts. <i>Scientific Reports</i> , 2018, 8, 12688.	3.3	5
32	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
33	Differential gene expression in primary fibroblasts induced by proton and cobalt-60 beam irradiation. <i>Acta Oncologica</i> , 2017, 56, 1406-1412.	1.8	17
34	Diamond detectors for the TOTEM timing upgrade. <i>Journal of Instrumentation</i> , 2017, 12, P03007-P03007.	1.2	20
35	Measurement of elastic pp scattering at $\sqrt{s} = 8$ 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
36	Evidence for non-exponential elastic proton-proton differential cross-section at low $ t $ and \sqrt{s} . <i>Nuclear Physics B</i> , 2015, 899, 527-546.	3.9	88

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37	The principles of Katz's cellular track structure radiobiological model. Radiation Protection Dosimetry, 2015, 166, 49-55.	0.8	10
38	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
39	Measurement of the forward charged particle pseudorapidity density in pp collisions at $\sqrt{s} = 8\text{ TeV}$ using a displaced interaction point. European Physical Journal C, 2015, 75, 1.	3.9	13
40	A numerical method to optimise the spatial dose distribution in carbon ion radiotherapy planning. Radiation Protection Dosimetry, 2015, 166, 351-355.	0.8	2
41	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$ by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
42	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.	1.4	14
43	LHC optics measurement with proton tracks detected by the Roman pots of the TOTEM experiment. New Journal of Physics, 2014, 16, 103041.	2.9	13
44	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
45	Measurement of proton-proton inelastic scattering cross-section at $\sqrt{s} = 7\text{ TeV}$. Europhysics Letters, 2013, 101, 21003.	2.0	70
46	Luminosity-independent measurements of total, elastic and inelastic cross-sections at $\sqrt{s} = 7\text{ TeV}$. Europhysics Letters, 2013, 101, 21004.	2.0	176
47	Double Diffractive Cross-Section Measurement in the Forward Region at the LHC. Physical Review Letters, 2013, 111, 262001.	7.8	34
48	Luminosity-Independent Measurement of the Proton-Proton Total Cross Section at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2013, 111, 012001.	7.8	187
49	Measurement of proton-proton elastic scattering and total cross-section at $\sqrt{s} = 7\text{ TeV}$. Europhysics Letters, 2013, 101, 21002.	2.0	197
50	PERFORMANCE OF THE TOTEM DETECTORS AT THE LHC. International Journal of Modern Physics A, 2013, 28, 1330046.	1.5	20
51	Elastic Scattering and Total Cross-Section in p+p Reactions. Progress of Theoretical Physics Supplement, 2012, 193, 180-183.	0.1	21
52	Measurement of the forward charged-particle pseudorapidity density in pp collisions at $\sqrt{s} = 7\text{ TeV}$ with the TOTEM experiment. Europhysics Letters, 2012, 98, 31002.	2.0	34
53	Microdosimetric analysis of response of LiF:Mg,Cu,P (MCP-N) TL detectors for alpha-particles and ultra-high doses of gamma-rays. Radiation Measurements, 2011, 46, 1349-1352.	1.4	10
54	Amorphous track predictions in LiF:Mg,Cu,P for alanine relative effectiveness in ion beams. Radiation Measurements, 2011, 46, 1551-1553.	1.4	3

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55	Proton-proton elastic scattering at the LHC energy of $\sqrt{s} = 7, \text{TeV}$. Europhysics Letters, 2011, 95, 41001.	2.0	150
56	First measurement of the total proton-proton cross-section at the LHC energy of $\sqrt{s} = 7, \text{TeV}$. Europhysics Letters, 2011, 96, 21002.	2.0	236
57	The application of amorphous track models to study cell survival in heavy ions beams. Radiation Protection Dosimetry, 2011, 143, 232-236.	0.8	3
58	Amorphous track models: A numerical comparison study. Radiation Measurements, 2010, 45, 1406-1409.	1.4	31
59	Facility for proton radiotherapy of eye cancer at IFJ PAN in Krakow. Radiation Measurements, 2010, 45, 1469-1471.	1.4	36
60	The TOTEM detector at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 62-66.	1.6	12
61	Offline Software for the TOTEM Experiment at the LHC. , 2010, , .		0