

# Marcin J Zieliński

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,683  
citations

361296

20  
h-index

289141

40  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel scintillating material 2-(4-styrylphenyl)benzoxazole for the fully digital and MRI compatible J-PET tomograph based on plastic scintillators. PLoS ONE, 2017, 12, e0186728.	1.1	13
2	Production and interaction of the $\eta$ -meson with nucleons and nuclei. EPJ Web of Conferences, 2016, 130, 03004.	0.1	0
3	J-PET: A Novel TOF-PET Detector based on Plastic Scintillators. , 2016, , .		3
4	Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter. Journal of Instrumentation, 2016, 11, T10004-T10004.	0.5	17
5	Evidence for a $\langle \mathbf{B} \cdot \mathbf{s} \rangle$ correlation. Physical Review Letters, 2016, 117, 022003.	0.3	13
6	Application of the compress sensing theory for improvement of the TOF resolution in a novel J-PET instrument. Nukleonika, 2016, 61, 35-39.	0.3	3
7	Studies of unicellular microorganisms <i>Saccharomyces cerevisiae</i> by means of positron annihilation lifetime spectroscopy. Nukleonika, 2015, 60, 749-753.	0.3	13
8	Processing optimization with parallel computing for the J-PET scanner. Nukleonika, 2015, 60, 745-748.	0.3	5
9	PALS investigations of free volumes thermal expansion of J-PET plastic scintillator synthesized in polystyrene matrix. Nukleonika, 2015, 60, 777-781.	0.3	4
10	A novel method for the line-of-response and time-of-flight reconstruction in TOF-PET detectors based on a library of synchronized model signals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 775, 54-62.	0.7	73
11	Measurement of the $n\bar{p} \rightarrow \pi^0 e^+ e^-$ reaction in search for the recently observed $d_{33}(2380)$ resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 325-332.	1.5	63
12	Tevatron Constraints on Models of the Higgs Boson with Exotic Spin and Parity Using Decays to Bottom-Antibottom Quark Pairs. Physical Review Letters, 2015, 114, 151802.	2.9	5
13	Determination of the COSY Proton Beam Polarization Using the WASA Detector. Acta Physica Polonica B, 2015, 46, 153.	0.3	3
14	Search for Polarization Effects in the Antiproton Production Process. Acta Physica Polonica B, 2015, 46, 191.	0.3	5
15	Compressive sensing of signals generated in plastic scintillators in a novel J-PET instrument. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 786, 105-112.	0.7	46
16	Searches for discrete symmetries violation in ortho-positronium decay using the J-PET detector. Nukleonika, 2015, 60, 729-732.	0.3	3
17	Reconstruction of hit time and hit position of annihilation quanta in the J-PET detector using the Mahalanobis distance. Nukleonika, 2015, 60, 765-769.	0.3	11
18	Polarization determination for the studies of the eta meson production. EPJ Web of Conferences, 2014, 81, 02013.	0.1	2



#	ARTICLE	IF	CITATIONS
37	Test of a single module of the J-PET scanner based on plastic scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 317-321.	0.7	109
38	Novel method for hit-position reconstruction using voltage signals in plastic scintillators and its application to Positron Emission Tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 186-192.	0.7	51
39	Cross section ratio and angular distributions of the reaction $p + d \rightarrow \hat{p} + {}^3\text{He} + \hat{n}$ at 48.8 MeV and 59.8 MeV excess energy. European Physical Journal A, 2014, 50, 1.	1.0	12
40	Search for a dark photon in the $\pi^0 \rightarrow \gamma \gamma$ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 187-193.	1.5	105
41	Investigation of the $d + {}^3\text{He} \rightarrow \hat{p} + \alpha$ reaction with the FZ Jülich WASA-at-COSY facility. Physical Review C, 2013, 88, .	1.1	5
42	Measurement of the $\pi^0 \rightarrow \gamma \gamma$ decay in search for the recently observed resonance structure in $\pi^0 \rightarrow \gamma \gamma$ . Physical Review C, 2013, 88, .	1.1	62
43	Search for $\hat{p}$ -mesic ${}^4\text{He}$ with the WASA-at-COSY detector. Physical Review C, 2013, 87, .	1.1	40
44	Studies on Antihydrogen Atoms with the ATRAP Experiment at CERN. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 1093.	0.0	2
45	Application of Compressive Sensing Theory for the Reconstruction of Signals in Plastic Scintillators. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 1121.	0.0	3
46	System Response Kernel Calculation for List-mode Reconstruction in Strip PET Detector. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 1027.	0.0	3
47	Abashian-Booth-Crowe resonance structure in the double pionic fusion to ${}^4\text{He}$ . Physical Review C, 2012, 86, .	1.1	30
48	Trapped Antihydrogen in Its Ground State. Physical Review Letters, 2012, 108, 113002.	2.9	165
49	Test of charge conjugation invariance in the decay of the $\hat{p}$ -meson into $\pi^0 + \pi^0$ . EPJ Web of Conferences, 2012, 37, 09037.	0.1	0
50	Exclusive measurement of the $\pi^0 \rightarrow \gamma \gamma$ decay. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 640, 232-240.	1.5	34
51	Ramped helium system for cooling positron and electron traps to 1.2K. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 640, 232-240.	0.7	7
52	Abashian-Booth-Crowe Effect in Basic Double-Pionic Fusion: A New Resonance?. Physical Review Letters, 2011, 106, 242302.	2.9	210
53	Adiabatic Cooling of Antiprotons. Physical Review Letters, 2011, 106, 073002.	2.9	45
54	MEASUREMENT OF THE $\hat{p} \rightarrow \pi^0 + \pi^0$ DECAY WITH WASA-at-COSY DETECTOR. International Journal of Modern Physics A, 2011, 26, 622-624.	0.5	1

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55	Invariant-mass distributions for the $pp \rightarrow pp \eta$ reaction at $Q = 10$ MeV. European Physical Journal A, 2010, 43, 131-136.	1.0	9
56	Measurement of the invariant mass distributions for the reaction at excess energy of. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 684, 11-16.	1.5	15
57	Two-proton correlation function for the $pp \rightarrow pp + \hat{p}$ and $pp \rightarrow pp + \pi^0$ reactions. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 055003.	1.4	8
58	Centrifugal Separation of Antiprotons and Electrons. Physical Review Letters, 2010, 105, 213002.	2.9	13
59	Upper limit of the total cross section for the $pn \rightarrow \hat{p}n$ reaction. Physical Review C, 2010, 81, .	1.1	5
60	Determination of the Total Width of the $\hat{p}$ -Meson. Physical Review Letters, 2010, 105, 122001.	2.9	10
61	Near-threshold production of the $\hat{p}$ -meson via the $pn \rightarrow \hat{p}n$ reaction. Physical Review C, 2009, 79, .	1.1	20
62	Generalized Dalitz plot analysis of the near-threshold $pp \rightarrow pp + \hat{p}$ reaction in view of the $pp \rightarrow pp + K^0$ reaction.	1.1	13
63	Measurement of the $pp \rightarrow pp + \hat{p}$ reaction Dalitz plot distribution with the WASA detector at COSY. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 24-29.	1.5	31
64	Study of the hadronic production of kaon pairs below the threshold for the $\hat{p}$ -meson. Nuclear Physics, Section B, Proceedings Supplements, 2008, 181-182, 194-198.	0.5	0
65	Microstructure and Thermal Stability of Transition Metal Nitrides and Borides on GaN. Materials Research Society Symposia Proceedings, 2000, 622, 6341.	0.1	4