

# Jan Christopher Bernauer

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

664  
citations

1040056

9  
h-index

713466

21  
g-index

25  
all docs

25  
docs citations

25  
times ranked

441  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Precision Determination of the Electric and Magnetic Form Factors of the Proton. Physical Review Letters, 2010, 105, 242001.	7.8	363
2	The RMS charge radius of the proton and Zemach moments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 343-347.	4.1	87
3	The Proton Radius Problem. Scientific American, 2014, 310, 32-39.	1.0	45
4	First measurement of proton's charge form factor at very low Q <sup>2</sup> with initial state radiation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 194-198.	4.1	37
5	The OLYMPUS experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 741, 1-17.	1.6	31
6	Noise and radiation damage in silicon photomultipliers exposed to electromagnetic and hadronic radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 602, 506-510.	1.6	23
7	In-beam tests of scintillating fibre detectors at MAMI and at GSI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 593, 353-360.	1.6	12
8	The OLYMPUS internal hydrogen target. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 755, 20-27.	1.6	11
9	Operation and characterization of a windowless gas jet target in high-intensity electron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1013, 165668.	1.6	10
10	Measurement and tricubic interpolation of the magnetic field for the OLYMPUS experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 823, 9-14.	1.6	8
11	Measurement of the Charge-Averaged Elastic Lepton-Proton Scattering Cross Section by the OLYMPUS Experiment. Physical Review Letters, 2021, 126, 162501.	7.8	8
12	A novel technique for determining luminosity in electron-scattering/positron-scattering experiments from multi-interaction events. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 877, 112-117.	1.6	7
13	First measurements of $\Lambda$ and hyperons in elementary electroproduction at MAMI. Nuclear Physics A, 2010, 835, 313-316.	1.5	6
14	High-precision determination of the electric and magnetic form factors of the proton. AIP Conference Proceedings, 2011, , .	0.4	4
15	Particle tracking in kaon electroproduction with cathode-charge sampling in multi-wire proportional chambers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 641, 105-113.	1.6	3
16	Design and operation of a windowless gas target internal to a solenoidal magnet for use with a megawatt electron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 939, 46-54.	1.6	3
17	Silicon Detector Telescope for proton detection in electron scattering reactions at MAMI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 673, 82-88.	1.6	2
18	Two-Photon Exchange: Future Experimental Prospects. Few-Body Systems, 2018, 59, 1.	1.5	1

#	ARTICLE	IF	CITATIONS
19	Positron beams and two-photon exchange: The key to precision form factors. AIP Conference Proceedings, 2018, , .	0.4	1
20	A helical-shape scintillating fiber trigger and tracker system for the DarkLight experiment and beyond. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 935, 1-7.	1.6	1
21	Detector response of Cherenkov radiators for calorimetry in the energy range below 14 MeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 960, 163665.	1.6	1
22	Nucleon form factor measurements in Mainz: past and future. Canadian Journal of Physics, 2007, 85, 419-427.	1.1	0
23	The Mainz high-precision proton form factor measurement. , 2010, , .		0
24	Low-Q: proton electric and magnetic form factors. Hyperfine Interactions, 2011, 200, 23-26.	0.5	0
25	The Mainz high-precision proton form factor measurement. , 2013, , .		0