

# Vasilii Mochalov

## List of Publications by Year in descending order

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59  
papers

737  
citations

567281

15  
h-index

552781

26  
g-index

59  
all docs

59  
docs citations

59  
times ranked

682  
citing authors



#	ARTICLE	IF	CITATIONS
19	Spin physics at IHEP. Physics of Particles and Nuclei, 2013, 44, 930-936.	0.7	11
20	Comparison of radiation damage in lead tungstate crystals under pion and gamma irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 530, 286-292.	1.6	10
21	LED monitoring system for the BTeV lead tungstate crystal calorimeter prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 534, 486-495.	1.6	8
22	Design and performance of LED calibration system prototype for the lead tungstate crystal calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 94-99.	1.6	8
23	PANDA electromagnetic calorimeters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 224-228.	1.6	8
24	Measurement of the single-spin asymmetry in the reaction $\bar{p} + d \rightarrow \bar{p}' + d' + X$ in the beam-fragmentation region at 40 GeV and $p_T$ of up to 2 GeV/c. Physics of Atomic Nuclei, 2010, 73, 2017-2021.	0.4	8
25	Correlation of beam electron and LED signal losses under irradiation and long-term recovery of lead tungstate crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 550, 543-550.	1.6	7
26	Preparation of new polarization experiment SPASCHARM at IHEP. Journal of Physics: Conference Series, 2011, 295, 012018.	0.4	6
27	Search for new forms of matter in antimatter-matter interactions in the panda experiment. Atomic Energy, 2012, 112, 129-138.	0.4	6
28	Indication on the universal hadron substructure: Constituent quarks. Physical Review D, 2004, 69, .	4.7	5
29	Study of possible scintillation mechanism damage in crystals after pion irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 540, 131-139.	1.6	5
30	Performance of a fine-sampling electromagnetic calorimeter prototype in the energy range from 1 to 19GeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 432-438.	1.6	5
31	Nuclear targets for a precision measurement of the neutral pion radiative width. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 612, 46-49.	1.6	5
32	Test beam study of the PANDA shashlyk calorimeter prototype. Journal of Physics: Conference Series, 2009, 160, 012021.	0.4	4
33	The BTeV electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 494, 313-317.	1.6	3
34	Single-spin asymmetry of inclusive $\bar{p}$ -meson production in 40-GeV pion interactions with a polarized target in the target-fragmentation region. Physics of Atomic Nuclei, 2004, 67, 1495-1504.	0.4	3
35	The Electromagnetic Calorimeter of the BTeV Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2006, 150, 262-266.	0.4	3
36	Polarimeters for the SPASCHARM Experiment. International Journal of Modern Physics Conference Series, 2016, 40, 1660086.	0.7	3

#	ARTICLE	IF	CITATIONS
37	Elastic scattering polarimeter for a polarized antiproton beam at U-70 accelerator of IHEP. Journal of Physics: Conference Series, 2016, 678, 012034.	0.4	3
38	Single-spin asymmetry of inclusive neutral-pion production in $pp \rightarrow \pi^0$ interactions at 70 GeV in the region $0.4 < x < 0.1$ . Physics of Atomic Nuclei, 2005, 68, 1790-1795.	0.4	2
39	Reconstructing the coordinates of inclined showers in lead glass electromagnetic calorimeters. Instruments and Experimental Techniques, 2007, 50, 458-468.	0.5	2
40	Measuring the momentum dispersion of a proton beam extracted from the U-70 accelerator by channeling. Instruments and Experimental Techniques, 2010, 53, 621-628.	0.5	2
41	Analyzing Power in the Reaction $p + p \rightarrow \pi^0 + X$ in the polarized-target fragmentation region at an energy of 50 GeV. Physics of Atomic Nuclei, 2014, 77, 595-601.	0.4	2
42	High precision photon flux determination for photon tagging experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 300-309.	1.6	2
43	Searches for single-spin asymmetry in the inclusive production of neutral pions in the central region at a proton beam energy of 70 GeV. Physics of Atomic Nuclei, 2004, 67, 1487-1494.	0.4	1
44	Monte Carlo reconstruction of the shower coordinates and shape in the electromagnetic calorimeter. Instruments and Experimental Techniques, 2006, 49, 468-482.	0.5	1
45	Effect of $\gamma$ irradiation on the scintillation and optical properties of lead tungstate crystals. Instruments and Experimental Techniques, 2009, 52, 665-672.	0.5	1
46	Studying the radiation hardness of lead tungstate crystals under long-term $\gamma$ irradiation. Instruments and Experimental Techniques, 2013, 56, 271-275.	0.5	1
47	Study of single-spin asymmetries with polarized target at the SPASCHARM experiment at U70 accelerator. Journal of Physics: Conference Series, 2016, 678, 012048.	0.4	1
48	Systematic Study of Spin Effects at SPASCHARM Experiment at 70-GeV Accelerator in Protvino. International Journal of Modern Physics Conference Series, 2016, 40, 1660106.	0.7	1
49	Polarized proton and antiproton beams for the SPASCHARM experiment at U-70 accelerator. Journal of Physics: Conference Series, 2017, 798, 012177.	0.4	1
50	Extraction of a 70-GeV/c Proton Beam to the RAMPEX Setup by Using a Silicon Crystal. Instruments and Experimental Techniques, 2001, 44, 1-11.	0.5	0
51	General features of single-spin asymmetry in inclusive pion production in fixed-target experiments. Physics of Atomic Nuclei, 2004, 67, 2169-2175.	0.4	0
52	Physics with antiprotons at $\sqrt{s} = 1.8$ TeV. Journal of Physics: Conference Series, 2016, 678, 012047.	0.4	0
53	Polarimetry with inclusive charged pions at U-70 accelerator of IHEP. Journal of Physics: Conference Series, 2016, 678, 012028.	0.4	0
54	Polarized antiproton beam at U-70 accelerator of IHEP. Journal of Physics: Conference Series, 2016, 678, 012047.	0.4	0

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55	Study of single-spin asymmetries with polarized target at the SPASCHARM experiment at U70 accelerator. Journal of Physics: Conference Series, 2017, 798, 012096.	0.4	0
56	Beam polarimetry at the SPASCHARM experiment at IHEP U-70 accelerator. Journal of Physics: Conference Series, 2017, 798, 012179.	0.4	0
57	AN AT SMALL NEGATIVE VALUES OF $x_F$ IN THE REACTION $p + p \rightarrow \pi^0 + X$ AT 70 GeV AND UNIVERSAL THRESHOLD IN INCLUSIVE PION PRODUCTION. , 2005, , .		0
58	SINGLE SPIN ASYMMETRY MEASUREMENTS FOR $\pi^0$ INCLUSIVE PRODUCTIONS IN $p + p \rightarrow \pi^0 + X$ AND $p + p \rightarrow \pi^0 + X$ REACTIONS AT 70 AND 40 GeV RESPECTIVELY. , 2005, , .		0
59	PANDA Forward Spectrometer Calorimeter. , 2016, , .		0