Vasilii Mochalov

List of Publications by Year
in descending order

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59	737	567281 15	552781 26
papers	citations	h-index	g-index

59	59	59	682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ity study for the measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ï€</mml:mi><mml:mi>N</mml:mi></mml:mrow></mml:math> transition distribution amplitudes at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mover accent="true"><mml:mrow><mml:mi mathvariant="sans-serif">Ps</mml:mi></mml:mrow><mml:mrow><mml:mo accent="true" stretchy="false	4.7	21
2	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
3	Polarized proton and antiproton beams for the SPASCHARM experiment at U-70 accelerator. Journal of Physics: Conference Series, 2017, 798, 012177.	0.4	1
4	Beam polarimetry at the SPASCHARM experiment at IHEP U-70 accelerator. Journal of Physics: Conference Series, 2017, 798, 012179.	0.4	0
5	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
6	Polarimeters for the SPASCHARM Experiment. International Journal of Modern Physics Conference Series, 2016, 40, 1660086.	0.7	3
7	Study of doubly strange systems using stored antiprotons. Nuclear Physics A, 2016, 954, 323-340.	1.5	22
8	Polarimetry with inclusive charged pions at U-70 accelerator of IHEP. Journal of Physics: Conference Series, 2016, 678, 012028.	0.4	0
9	Feasibility studies of time-like proton electromagnetic form factors at $overline{m P}$ P Â¯ ANDA at FAIR. European Physical Journal A, 2016, 52, 1.	2.5	31
10	Polarized antiproton beam at U-70 accelerator of IHEP. Journal of Physics: Conference Series, 2016, 678, 012047.	0.4	0
11	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
12	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
13	PANDA Forward Spectrometer Calorimeter. , 2016, , .		0
14	Experimental access to Transition Distribution Amplitudes with the PÌ„ANDA experiment at FAIR. European Physical Journal A, 2015, 51, 1.	2.5	29
15	Analyzing Power in the Reaction p + p â”” â†’ Ï€ 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
16	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
17	Studying the radiation hardness of lead tungstate crystals under long-term Î³ irradiation. Instruments and Experimental Techniques, 2013, 56, 271-275.	0.5	1
18	Technical design report for the $overline{P}$ ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71

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19	Spin physics at IHEP. Physics of Particles and Nuclei, 2013, 44, 930-936.	0.7	11
20	Physics with antiprotons at <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	0.4	0
21	Search for new forms of matter in antimatterâ€“matter interactions in the panda experiment. Atomic Energy, 2012, 112, 129-138.	0.4	6
22	New Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math>Radiative Decay Width. Physical Review Letters, 2011, 106, 162303.	7.8	81
23	Preparation of new polarization experiment SPASCHARM at IHEP. Journal of Physics: Conference Series, 2011, 295, 012018.	0.4	6
24	Measurement of the single-spin asymmetry in the reaction Ï€ â˜ d â†' â†' Ï€ 0 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	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
26	Measurement of Direct<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>f</mml:mi><mml:mn>0</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>980</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td (stretchy="false">)</mn 2009, 102, 102001.	7.8	25
27	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
28	Effect of Î³ irradiation on the scintillation and optical properties of lead tungstate crystals. Instruments and Experimental Techniques, 2009, 52, 665-672.	0.5	1
29	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
30	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
31	Photoproduction of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï€</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>Ï€</mml:mi><mml:mo pairs on the proton. Physical Review D, 2009, 80, .	4.7	31
32	Test beam study of the PANDA shashlyk calorimeter prototype. Journal of Physics: Conference Series, 2009, 160, 012021.	0.4	4
33	Radiation Hardness and Recovery Processes of PWO Crystals at $-25, ^{circ}$C. IEEE Transactions on Nuclear Science, 2008, 55, 1283-1288.	2.0	19
34	First study of radiation hardness of lead tungstate crystals at low temperatures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 575-580.	1.6	42
35	Reconstructing the coordinates of inclined showers in lead glass electromagnetic calorimeters. Instruments and Experimental Techniques, 2007, 50, 458-468.	0.5	2
36	Monte Carlo reconstruction of the shower coordinates and shape in the electromagnetic calorimeter. Instruments and Experimental Techniques, 2006, 49, 468-482.	0.5	1

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37	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
38	The Electromagnetic Calorimeter of the BTeV Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2006, 150, 262-266.	0.4	3
39	Search for theÎ˜+pentaquark in the reactionsÎ³pâ†'KÂ¯0K+nandÎ³pâ†'KÂ¯0K0p. Physical Review D, 2006, 74, .	4.7	51
40	Search forÎ˜++Pentaquarks in the Exclusive ReactionÎ³pâ†'K+Kâ^'p. Physical Review Letters, 2006, 97, 102001.	7.8	13
41	Search forÎ˜+(1540)Pentaquark in High-Statistics Measurement ofÎ³pâ†'KÂ¯0K+nat CLAS. Physical Review Letters, 2006, 96, 042001.	7.8	69
42	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
43	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
44	Single-spin asymmetry of inclusive neutral-pion production in pp â†‘ interactions at 70 GeV in the region â^'0.4 < x F < â^'0.1. Physics of Atomic Nuclei, 2005, 68, 1790-1795.	0.4	2
45	AN AT SMALL NEGATIVE VALUES OF xF IN THE REACTION p + pâ†‘ â†' Ï€0 + X AT 70 GeV AND UNIVERSAL THRESHOLD IN INCLUSIVE PION PRODUCTION. , 2005, , .		0
46	SINGLE SPIN ASYMMETRY MEASUREMENTS FOR Ï€⁰ INCLUSIVE PRODUCTIONS IN p + p_{â†‘} â†' Ï€⁰ + X AND Ï€^{â^'} + p_{â†‘} â†' Ï€⁰ + X REACTIONS AT 70 AND 40 GeV RESPECTIVELY. , 2005, , .		0
47	Indication on the universal hadron substructure: Constituent quarks. Physical Review D, 2004, 69, .	4.7	5
48	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
49	Single-spin asymmetry of inclusive Ï€ 0-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
50	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
51	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
52	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
53	Precision measurement of energy and position resolutions of the BTeV electromagnetic calorimeter prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 510, 248-261.	1.6	20
54	Development of a momentum determined electron beam in the 1â€“ range. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 510, 211-218.	1.6	14

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55	Study of radiation damage in lead tungstate crystals using intense high-energy beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 488-505.	1.6	19
56	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
57	Study of the compensated lead hadron calorimeter on hadron, electron and leadâ€“ion beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 381-383.	1.6	13
58	Extraction of a 70-GeV/cProton Beam to the RAMPEX Setup by Using a Silicon Crystal. Instruments and Experimental Techniques, 2001, 44, 1-11.	0.5	0
59	Observation of significant spin effects in hard collisions at 40 GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 243, 461-464.	4.1	38