

# Valeri E Tioukov

## List of Publications by Year in descending order

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113  
papers

2,988  
citations

159358

30  
h-index

189595

50  
g-index

118  
all docs

118  
docs citations

118  
times ranked

4557  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Drift Chamber detector of the FOOT experiment: Performance analysis and external calibration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 986, 164756.	0.7	5
2	Charge identification of fragments with the emulsion spectrometer of the FOOT experiment. Open Physics, 2021, 19, 383-394.	0.8	6
3	Search for weakly interacting massive dark matter particles: state of the art and prospects. Physics-Uspexhi, 2021, 64, 861-889.	0.8	7
4	Super-resolution high-speed optical microscopy for fully automated readout of metallic nanoparticles and nanostructures. Scientific Reports, 2020, 10, 18773.	1.6	12
5	First observation of a tau neutrino charged current interaction with charm production in the OPERA experiment. European Physical Journal C, 2020, 80, 1.	1.4	3
6	Measurement of the cosmic ray muon flux seasonal variation with the OPERA detector. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 003-003.	1.9	12
7	Ion charge separation with new generation of nuclear emulsion films. Open Physics, 2019, 17, 233-240.	0.8	9
8	Muon Radiography Method for Non-Invasive Probing an Archaeological Site in the Naryn-Kala Citadel. Applied Sciences (Switzerland), 2019, 9, 2040.	1.3	8
9	First muography of Stromboli volcano. Scientific Reports, 2019, 9, 6695.	1.6	56
10	A Novel Optical Scanning Technique with an Inclined Focusing Plane. Scientific Reports, 2019, 9, 2870.	1.6	17
11	Muonography of Large Natural and Industrial Objects. Physics of Atomic Nuclei, 2019, 82, 897-901.	0.1	4
12	Final results on neutrino oscillation parameters from the OPERA experiment in the CNGS beam. Physical Review D, 2019, 100, .	1.6	9
13	Development and characterization of a $\mu$ -E-TOF detector prototype for the FOOT experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 916, 116-124.	0.7	8
14	Latest results of the OPERA experiment on nu-tau appearance in the CNGS neutrino beam. , 2019, , .		1
15	Study of charged hadron multiplicities in charged-current neutrino-lead interactions in the OPERA detector. European Physical Journal C, 2018, 78, 1.	1.4	9
16	Discovery potential for directional Dark Matter detection with nuclear emulsions. European Physical Journal C, 2018, 78, 1.	1.4	27
17	Final results of the search for $\hat{\nu}_{\mu} \hat{\nu}_{\tau} \leftrightarrow \hat{\nu}_{\mu} \hat{\nu}_{\tau} + e^{\pm}$ oscillations with the OPERA detector in the CNGS beam. Journal of High Energy Physics, 2018, 2018, 1.	1.6	15
18	The active muon shield in the SHiP experiment. Journal of Instrumentation, 2017, 12, P05011-P05011.	0.5	20

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19	Measurements of $^{12}\text{C}$ ions beam fragmentation at large angle with an Emulsion Cloud Chamber. Journal of Instrumentation, 2017, 12, P08013-P08013.	0.5	5
20	The Continuous Motion Technique for a New Generation of Scanning Systems. Scientific Reports, 2017, 7, 7310.	1.6	28
21	Current status and prospects of nuclear physics research based on tracking techniques. Journal of Physics: Conference Series, 2017, 798, 012207.	0.3	0
22	Muon radiography method for fundamental and applied research. Physics-Uspekhi, 2017, 60, 1277-1293.	0.8	17
23	High-resolution tracking in a GEM-emulsion detector. Journal of Instrumentation, 2017, 12, P09001-P09001.	0.5	2
24	Nuclear emulsion techniques for muography. Annals of Geophysics, 2017, 60, .	0.5	3
25	Muography of 1949 fault in La Palma, Canary Islands, Spain. Annals of Geophysics, 2017, 60, .	0.5	7
26	Muography with nuclear emulsions - Stromboli and other projects. Annals of Geophysics, 2017, 60, .	0.5	16
27	Determination of the muon charge sign with the dipolar spectrometers of the OPERA experiment. Journal of Instrumentation, 2016, 11, P07022-P07022.	0.5	2
28	Experiments on muon radiography with emulsion track detectors. EPJ Web of Conferences, 2016, 125, 02022.	0.1	3
29	Intrinsic neutron background of nuclear emulsions for directional Dark Matter searches. Astroparticle Physics, 2016, 80, 16-21.	1.9	25
30	Readout technologies for directional WIMP Dark Matter detection. Physics Reports, 2016, 662, 1-46.	10.3	68
31	A new generation scanning system for the high-speed analysis of nuclear emulsions. Journal of Instrumentation, 2016, 11, P06002-P06002.	0.5	39
32	Development of a super-resolution optical microscope for directional dark matter search experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 600-602.	0.7	6
33	The OPERA experiment. Nuclear and Particle Physics Proceedings, 2015, 267-269, 87-93.	0.2	0
34	Test Experiments on Muon Radiography with Emulsion Track Detectors in Russia. Physics Procedia, 2015, 80, 78-80.	1.2	2
35	Discovery of $\bar{\nu}_e$ . Neutrino Appearance in the CNGS Neutrino Beam with the OPERA Experiment. Physical Review Letters, 2015, 115, 121802.	2.9	132
36	Muon radiography in Russia with emulsion technique. First experiments future perspectives. AIP Conference Proceedings, 2015, .	0.3	6

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37	Limits on muon-neutrino to tau-neutrino oscillations induced by a sterile neutrino state obtained by OPERA at the CNGS beam. Journal of High Energy Physics, 2015, 2015, 1.	1.6	17
38	High speed automated microtomography of nuclear emulsions and recent application. AIP Conference Proceedings, 2015, , .	0.3	1
39	GPU applications for data processing. AIP Conference Proceedings, 2015, , .	0.3	1
40	A new fast scanning system for the measurement of large angle tracks in nuclear emulsions. Journal of Instrumentation, 2015, 10, P11006-P11006.	0.5	36
41	Improving the detection efficiency in nuclear emulsion trackers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 776, 45-49.	0.7	4
42	Measurement of large angle fragments induced by $400 \text{ MeV} \times 10^8$ carbon ion beams. Measurement Science and Technology, 2015, 26, 094001.	1.4	11
43	Test Experiments on muon radiography with emulsion track detectors in Russia. Physics of Particles and Nuclei Letters, 2015, 12, 713-719.	0.1	7
44	Further progress for a fast scanning of nuclear emulsions with Large Angle Scanning System. Journal of Instrumentation, 2014, 9, C02034-C02034.	0.5	11
45	Evidence for $\nu_{\tau} \rightarrow \nu_{\mu}$ oscillations in the CNGS neutrino beam with the OPERA experiment. Physical Review D, 2014, 89, .	0.6	53
46	A novel approach to dark matter search based on nanometric emulsions. Journal of Instrumentation, 2014, 9, C12053-C12053.	0.5	6
47	Observation of tau neutrino appearance in the CNGS beam with the OPERA experiment. Progress of Theoretical and Experimental Physics, 2014, 2014, 101C01-101C01.	1.8	37
48	Measurement of the TeV atmospheric muon charge ratio with the complete OPERA data set. European Physical Journal C, 2014, 74, 1.	1.4	21
49	Procedure for short-lived particle detection in the OPERA experiment and its application to charm decays. European Physical Journal C, 2014, 74, 1.	1.4	31
50	Nuclear emulsions as a very high resolution detector for directional dark matter search. Journal of Instrumentation, 2014, 9, C01043-C01043.	0.5	7
51	Measurement of the neutrino velocity with the OPERA detector in the CNGS beam using the 2012 dedicated data. Journal of High Energy Physics, 2013, 2013, 1.	1.6	21
52	Addendum: search for $\nu_{\tau} \rightarrow \nu_{\mu}$ oscillations with the OPERA experiment in the CNGS beam. Journal of High Energy Physics, 2013, 2013, 1.	1.6	6
53	Search for $\nu_{\tau} \rightarrow \nu_{\mu}$ oscillations with the OPERA experiment in the CNGS beam. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58
54	New results on $\nu_{\tau} \rightarrow \nu_{\mu}$ oscillations with the OPERA experiment in the CNGS beam. Journal of High Energy Physics, 2013, 2013, 1.	1.6	51

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55	A novel approach for fast scanning of nuclear emulsions with continuous motion of the microscope stage. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 184-185.	0.7	13
56	A fast automatic plate changer for the analysis of nuclear emulsions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 716, 96-100.	0.7	2
57	An integrated system for large scale scanning of nuclear emulsions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 703, 204-212.	0.7	13
58	Search for $\nu_{\tau} \rightarrow \nu_{\mu}$ oscillation with the OPERA experiment in the CNGS beam. New Journal of Physics, 2012, 14, 033017.	1.2	18
59	Measurement of the neutrino velocity with the OPERA detector in the CNGS beam. Journal of High Energy Physics, 2012, 2012, 1.	1.6	116
60	Determination of a time-shift in the OPERA set-up using high-energy horizontal muons in the LVD and OPERA detectors. European Physical Journal Plus, 2012, 127, 1.	1.2	10
61	Momentum measurement by the multiple Coulomb scattering method in the OPERA lead-emulsion target. New Journal of Physics, 2012, 14, 013026.	1.2	64
62	Status and results of the OPERA experiment. , 2012, , .		0
63	Measurement of the fragmentation of Carbon nuclei used in hadron-therapy. Nuclear Physics A, 2011, 853, 124-134.	0.6	50
64	Study of neutrino interactions with the electronic detectors of the OPERA experiment. New Journal of Physics, 2011, 13, 053051.	1.2	44
65	Measurement of charm production in neutrino charged-current interactions. New Journal of Physics, 2011, 13, 093002.	1.2	60
66	Measurement of the atmospheric muon charge ratio with the OPERA detector. European Physical Journal C, 2010, 67, 25-37.	1.4	26
67	Observation of a first $\nu_{\tau} \rightarrow \nu_{\mu}$ candidate event in the OPERA experiment in the CNGS beam. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 2010. 691. 138-145.	1.5	173
68	Measurement of low-energy neutrino cross-sections with the PEANUT experiment. New Journal of Physics, 2010, 12, 113028.	1.2	4
69	The OPERA experiment in the CERN to Gran Sasso neutrino beam. Journal of Instrumentation, 2009, 4, P04018-P04018.	0.5	195
70	The detection of neutrino interactions in the emulsion/lead target of the OPERA experiment. Journal of Instrumentation, 2009, 4, P06020-P06020.	0.5	41
71	Final results on oscillation from the CHORUS experiment. Nuclear Physics B, 2008, 793, 326-343.	0.9	52
72	Leading order analysis of neutrino induced dimuon events in the CHORUS experiment. Nuclear Physics B, 2008, 798, 1-16.	0.9	30

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73	High-speed analysis of nuclear emulsion films with the use of dry objective lenses. Journal of Instrumentation, 2008, 3, P04006-P04006.	0.5	16
74	Study of the effects induced by lead on the emulsion films of the OPERA experiment. Journal of Instrumentation, 2008, 3, P07002-P07002.	0.5	11
75	Electron/pion separation with an Emulsion Cloud Chamber by using a Neural Network. Journal of Instrumentation, 2007, 2, P02001-P02001.	0.5	16
76	Emulsion Cloud Chamber technique to measure the fragmentation of a high-energy carbon beam. Journal of Instrumentation, 2007, 2, P06004-P06004.	0.5	18
77	Track reconstruction in the emulsion-lead target of the OPERA experiment using the ESS microscope. Journal of Instrumentation, 2007, 2, P05004-P05004.	0.5	56
78	Charged-particle multiplicities in charged-current neutrino and anti-neutrino nucleus interactions. European Physical Journal C, 2007, 51, 775.	1.4	12
79	Associated charm production in neutrino nucleus interactions. European Physical Journal C, 2007, 52, 543-552.	1.4	10
80	First events from the CNGS neutrino beam detected in the OPERA experiment. New Journal of Physics, 2006, 8, 303-303.	1.2	88
81	The FEDRA Framework for emulsion data reconstruction and analysis in the OPERA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 103-105.	0.7	39
82	Hardware performance of a scanning system for high speed analysis of nuclear emulsions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 578-587.	0.7	88
83	Measurement of nucleon structure functions in neutrino scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 65-75.	1.5	113
84	Measurements of $\langle x \rangle$ and $\langle x^2 \rangle$ in neutrino scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 76-80.	1.5	21
85	Measurement of the charm quark fragmentation function in neutrino scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 626, 24-34.	1.5	8
86	Measurement of topological muonic branching ratios of charmed hadrons produced in neutrino-induced charged-current interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 626, 24-34.	1.5	21
87	High-speed particle tracking in nuclear emulsion by last-generation automatic microscopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 551, 261-270.	0.7	108
88	High precision measurements with nuclear emulsions using fast automated microscopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 554, 247-254.	0.7	46
89	Search for superfragments and measurement of the production of hyperfragments in neutrino nucleus interactions. Nuclear Physics B, 2005, 718, 35-54.	0.9	1
90	Experimental study of trimuon events in neutrino charged-current interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 596, 44-53.	1.5	8

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91	Measurement of charm production in antineutrino charged-current interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 604, 11-21.	1.5	7
92	Measurement of fragmentation properties of charmed particle production in charged-current neutrino interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 604, 145-156.	1.5	12
93	Atmospheric muon flux measurements at the external site of the Gran Sasso Lab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 525, 485-495.	0.7	15
94	Measurement of the Z/A dependence of neutrino charged-current total cross-sections. European Physical Journal C, 2003, 30, 159-167.	1.4	7
95	Cross-section measurement for quasi-elastic production of charmed baryons in $\hat{1}/2N$ interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 575, 198-207.	1.5	15
96	Momentum measurement by the angular method in the Emulsion Cloud Chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 539-545.	0.7	46
97	Measurement of $\hat{1}b^+c^+$ production in neutrino charged-current interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 555, 156-166.	1.5	18
98	Measurement of $D^0$ production in neutrino charged-current interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 527, 173-181.	1.5	22
99	Observation of one event with the characteristics of associated charm production in neutrino charged-current interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 539, 188-196.	1.5	17
100	Determination of the semi-leptonic branching fraction of charm hadrons produced in neutrino charged-current interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 549, 48-57.	1.5	14
101	New results from a search for $\hat{1}/2\hat{1}/4\hat{a}^+\hat{1}/2\hat{1}$ , and $\hat{1}/2e\hat{a}^+\hat{1}/2\hat{1}$ , oscillation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 497, 8-22.	1.5	56
102	Observation of weak neutral current neutrino production of $J/\psi$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 1-9.	1.5	11
103	Studies of the response of the prototype CMS hadron calorimeter, including magnetic field effects, to pion, electron, and muon beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 457, 75-100.	0.7	16
104	High-resolution tracking using large capillary bundles filled with liquid scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 60-80.	0.7	11
105	Search for $\hat{1}/2\hat{1}/4\hat{a}^+\hat{1}/2\hat{1}$ , oscillation using the $\hat{1}$ , decay modes into a single charged particle. This paper is dedicated to the memory of Yasushi Ishii, a bright colleague and a good friend, whose loss has caused us great sorrow. 1. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 205-213.	1.5	34
106	Observation of neutrino induced diffractive production and subsequent decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 435, 458-464.	1.5	18
107	A new vertex detector made of glass capillaries. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 386, 72-80.	0.7	7
108	Experimental results from a large volume active target made of glass capillaries and liquid scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 367, 377-383.	0.7	8

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109	Development of large-volume, high-resolution tracking detectors based on capillaries filled with liquid scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 360, 7-12.	0.7	18
110	Study of capillary tracking detectors with position-sensitive photomultiplier readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 361, 129-137.	0.7	4
111	A high-resolution detector based on liquid-core scintillating fibres with readout via an electron-bombarded charge-coupled device. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 339, 449-455.	0.7	20
112	A tracking detector based on capillaries with liquid scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 317, 97-100.	0.7	8
113	High resolution tracking detector based on capillaries with a liquid scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 310, 479-484.	0.7	10