

# Vadim Navotny

## List of Publications by Year in descending order

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72  
papers

1,070  
citations

394390

19  
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454934

30  
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73  
all docs

73  
docs citations

73  
times ranked

267  
citing authors

#	ARTICLE	IF	CITATIONS
1	Justification of Landau Hydrodynamic-Tube model in central relativistic heavy-ion collisions. Chinese Journal of Physics, 2018, 56, 2689-2697.	3.9	0
2	Observation of Gaussian Pseudorapidity Distributions for Produced Particles in Proton-Nucleus Collisions at Tevatron Energies. Advances in High Energy Physics, 2018, 2018, 1-5.	1.1	0
3	Two-particle rapidity correlations between relativistic particles in central collisions of $^{197}\text{Au}$ nuclei in emulsion at 11.6 A GeV/c. European Physical Journal C, 2016, 76, 1.	3.9	4
4	Breakup of oxygen nucleus on isotopes of hydrogen and nitrogen nuclei in collisions with protons at 3.25A GeV/c. International Journal of Modern Physics E, 2016, 25, 1650060.	1.0	2
5	Phenomenological analysis of breakup of $^9\text{Be}$ nuclei into two $\hat{1}\pm$ -particles and neutron in peripheral interactions with emulsion nuclei. International Journal of Modern Physics E, 2016, 25, 1650021.	1.0	4
6	Breakup of $^{16}\text{O}$ nucleus onto C and He isotopes by protons at incident momentum of 3.25A GeV/c. International Journal of Modern Physics E, 2016, 25, 1650023.	1.0	4
7	Verification of the model of a collision of a 800-GeV proton with an emulsion-nucleus tube. Physics of Atomic Nuclei, 2014, 77, 908-911.	0.4	0
8	Analysis of variances of quasirapidities in collisions of gold nuclei with track-emulsion nuclei. Physics of Atomic Nuclei, 2012, 75, 1014-1018.	0.4	0
9	Intra- and intergroup azimuthal correlations of particles in the interaction of gold nuclei with silver and bromine nuclei of track emulsions at the projectile energy of 10.6 GeV per nucleon. Physics of Atomic Nuclei, 2010, 73, 122-133.	0.4	0
10	Pseudorapidity configurations in collisions between gold nuclei and track-emulsion nuclei. Physics of Atomic Nuclei, 2010, 73, 1185-1190.	0.4	1
11	10.1007/s11450-008-3012-5. , 2010, 71, 520.		0
12	Azimuthal correlations of secondary particles in collisions between gold nuclei and track-emulsion nuclei at a gold-nucleus energy of 10.6 GeV per nucleon. Physics of Atomic Nuclei, 2009, 72, 1479-1485.	0.4	0
13	Wavelet analysis of angular distributions of secondary particles in high-energy nucleus-nucleus interactions: Irregularity of particle pseudorapidity distributions. Physics of Atomic Nuclei, 2004, 67, 156-162.	0.4	7
14	Flow effects in high-energy nucleus collisions with Ag(Br) in emulsion. Physics of Atomic Nuclei, 2004, 67, 273-280.	0.4	6
15	Universality of multifragmentation of residual nuclei produced in high-energies nucleus-nucleus interactions. Physics of Atomic Nuclei, 2001, 64, 62-67.	0.4	3
16	Factorization of fragmentation cross-sections in heavy-ion collisions at 1A GeV. Europhysics Letters, 2000, 50, 441-446.	2.0	1
17	Nucleus-nucleus collision as superposition of nucleon-nucleus collisions. Nuclear Physics, Section B, Proceedings Supplements, 1999, 71, 330-334.	0.4	4
18	Fragmentation and multifragmentation of 10.6A GeV gold nuclei. European Physical Journal A, 1999, 5, 429-440.	2.5	33

#	ARTICLE	IF	CITATIONS
19	Angular distributions of light projectile fragments in deep inelastic Pb + Em interactions at 160 A GeV. European Physical Journal A, 1999, 6, 421-425.	2.5	11
20	Flow effects in 84Kr induced collisions in emulsion at 0.95 GeV per nucleon. European Physical Journal A, 1999, 6, 427-430.	2.5	7
21	Critical behaviour in Au fragmentation at 10.7A GeV. European Physical Journal A, 1998, 1, 77-83.	2.5	13
22	Bounce “ off in 197Au induced collisions with Ag(Br) nuclei at 11.6 A GeV/c. European Physical Journal A, 1998, 2, 61-67.	2.5	31
23	Multifractal analysis of particles produced in 197 Au, 32 S and 16 O induced interactions at high energies. Europhysics Letters, 1998, 44, 571-577.	2.0	6
24	He production in 158 A GeV/c Pb on Pb interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 390, 445-449.	4.1	6
25	Charged particle multiplicities, densities and fluctuations in Pb+Pb interactions at 158 A GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 407, 92-96.	4.1	11
26	Multiplicities in 84Kr interactions in emulsion at 800–950 MeV/nucleon. European Physical Journal D, 1996, 46, 531-540.	0.4	14
27	28Si(32S) fragmentation at 3.7 A, 14.6 A and 200 A GeV. Zeitschrift für Physik A, 1995, 351, 311-316.	0.9	19
28	Tracking high energy heavy-ion interactions with nuclear emulsion. Radiation Measurements, 1995, 25, 191-196.	1.4	0
29	Fragmentation of relativistic gold nuclei in nuclear emulsion. Radiation Measurements, 1995, 25, 251-256.	1.4	0
30	Charged particle density distributions in Au induced interactions with emulsion nuclei at 10.7 A GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 472-478.	4.1	29
31	Rescattering probed by the emission of slow target associated particles in high-energy heavy-ion interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 363, 230-236.	4.1	7
32	Particle production in gold and lead induced interactions at AGS and SPS. Nuclear Physics A, 1995, 590, 597-600.	1.5	6
33	Charged particle multiplicity and pseudorapidity density distributions in 16O–, 28Si–, and 197Au-induced nuclear interactions at 14.6 and 11.6A GeV/c. Nuclear Physics A, 1995, 593, 535-549.	1.5	15
34	On the production of slow particles in high energy heavy ion collisions. Zeitschrift für Physik C-Particles and Fields, 1995, 65, 421-429.	1.5	4
35	Measurements of 525 GeV pion interactions in emulsion. Physical Review D, 1994, 50, 4272-4282.	4.7	9
36	Rapidity density distributions and their fluctuations in violent Au-induced nuclear interactions at 11.6 A GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 322, 166-170.	4.1	6

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37	Helium production in 10.7 A GeV Au induced nucleus-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 338, 397-402.	4.1	15
38	Systematic investigation of scaled factorial cumulant moments for nucleus-nucleus interactions. Physical Review D, 1993, 47, 3726-3732.	4.7	13
39	Rapidity density distributions in $^{16}\text{O}$ , $^{28}\text{Si}$ , $^{32}\text{S}$ , $^{197}\text{Au}$ , and $^{208}\text{Pb}$ induced heavy-ion interactions at $4A \rightarrow 200A$ GeV. Physical Review Letters, 1992, 69, 745-748.	7.8	30
40	On intermittency in heavy-ion collisions and the importance of $\hat{f}^3$ -conversion in a multi-dimensional intermittency analysis. Nuclear Physics B, 1992, 388, 3-30.	2.5	34
41	Review of recent results on particle production from EMU01. Nuclear Physics A, 1992, 544, 153-168.	1.5	10
42	Local particle densities and global multiplicities in central heavy ion interactions at 3.7, 14.6, 60 and 200A GeV. Zeitschrift für Physik C-Particles and Fields, 1992, 56, 509-520.	1.5	25
43	A systematic study of the energy independent behaviour of the fragmentation regions in $^{16}\text{O}$ -Em interactions from 3.7 to 200A GeV. Zeitschrift für Physik C-Particles and Fields, 1992, 55, 235-242.	1.5	2
44	Energy, target, projectile and multiplicity dependences of intermittency behaviour in high energy O(Si, ) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	21
45	On the systematic behaviour of the intermittency-indices in nuclear interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 263, 539-543.	4.1	42
46	Slow, target associated particles produced in ultrarelativistic heavy-ion interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 262, 369-374.	4.1	34
47	Multiplicities in induced violent heavy-ion collisions from 5A to $2A \rightarrow 105A$ MeV. Physical Review Letters, 1991, 67, 1201-1205.	7.8	6
48	Limiting Fragmentation, Scaling and Substructural Dependence of Multiparticle Production in High Energy Heavy Ion Reactions. Physica Scripta, 1990, T32, 168-172.	2.5	6
49	On the multiplicity fluctuations in relativistic heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 242, 512-516.	4.1	19
50	Target nucleus fragmentation in $^{16}\text{O}+(\text{Ag},\text{Br})$ interactions at 200 A GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 234, 180-184.	4.1	17
51	Scaled-factorial-moment analysis of 200A-GeV sulfur+gold interactions. Physical Review Letters, 1990, 65, 412-415.	7.8	92
52	ON THE ENERGY AND MASS DEPENDENCE OF THE MULTIPLICITY IN RELATIVISTIC HEAVY-ION INTERACTIONS. Modern Physics Letters A, 1990, 05, 169-174.	1.2	17
53	Central collisions of 800-GeV protons with Ag/Br nuclei in nuclear emulsion. Physical Review D, 1989, 39, 86-91.	4.7	17
54	Limiting fragmentation in oxygen-induced emulsion interactions at 14.6, 60, and 200 GeV/nucleon. Physical Review Letters, 1989, 62, 2801-2804.	7.8	68

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55	Scaling properties of charged particle multiplicity distributions in oxygen induced emulsion interactions at 14.6, 60 and 200 A GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 223, 262-266.	4.1	58
56	A study of recoil protons in ultra-relativistic nucleus-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 230, 175-180.	4.1	14
57	Rapidity densities and their fluctuations in central 200 A GeV 32S interactions with Au and Ag, Br nuclei EMU01 collaboration. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 227, 285-290.	4.1	43
58	A search for non-statistical particle density fluctuations in 16O + Ag(Br) and 32S + Au interactions at 200 A GeV. Nuclear Physics A, 1989, 498, 541-545.	1.5	24
59	Multiplicity in proton-nucleus interactions in emulsion at 800 GeV. Zeitschrift für Physik C-Particles and Fields, 1988, 40, 223-229.	1.5	12
60	Angular distributions in proton-nucleus interactions in emulsion at 800 GeV. Zeitschrift für Physik C-Particles and Fields, 1988, 40, 1-11.	1.5	6
61	Correlations among particles produced in proton interactions with emulsion nuclei at 800 GeV. Physical Review D, 1988, 37, 1113-1119.	4.7	5
62	Charged-particle multiplicity and angular distributions in proton-emulsion interactions at 800 GeV. Physical Review D, 1987, 35, 3537-3540.	4.7	33
63	Evidence for azimuthal correlations in inelastic interactions of 56Fe nuclei in emulsion at 2.5A GeV/c. Zeitschrift für Physik A, 1985, 322, 677-683.	1.4	5
64	Fragmentation of relativistic 56Fe nuclei in emulsion. Nuclear Physics A, 1984, 412, 534-550.	1.5	25
65	Characteristics of heavily ionizing particles and correlation effects in high-energy hadron-nucleus collisions in emulsion. Il Nuovo Cimento A, 1984, 84, 117-140.	0.2	5
66	Inclusive two-and three-particle rapidity correlations in high-energy hadron-nucleus collisions. Nuclear Physics B, 1981, 178, 457-476.	2.5	9
67	The multiple scattering model analysis of high energy multiparticle production on emulsion nuclei. Zeitschrift für Physik A, 1979, 291, 189-197.	1.4	6
68	Is the "tube" approach to multiple production on nuclei credible?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 73, 339-342.	4.1	10
69	Inclusive rapidity distributions in hadron-nucleus interactions and the parton-cascade model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 73, 500-502.	4.1	11
70	A study of inelastic pion-nucleus interactions at 200 GeV/c in an emulsion. Nuclear Physics B, 1977, 129, 205-231.	2.5	53
71	General characteristics of proton-nucleon interactions in nuclear emulsion at 67 GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1972, 39, 282-284.	4.1	5
72	Coherent production of particles by 67 GeV/c protons on emulsion nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1972, 39, 285-288.	4.1	9