

Leonid Grigorenko

List of Publications by Year in descending order

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59
papers

2,489
citations

186265
28
h-index

189892
50
g-index

60
all docs

60
docs citations

60
times ranked

836
citing authors

#	ARTICLE	IF	CITATIONS
1	Radioactive decays at limits of nuclear stability. <i>Reviews of Modern Physics</i> , 2012, 84, 567-619.	45.6	318
2	First evidence for the two-proton decay of ^{45}Fe . <i>European Physical Journal A</i> , 2002, 14, 279-285.	2.5	235
3	Theory of Two-Proton Radioactivity with Application to ^{19}Mg and ^{48}Ni . <i>Physical Review Letters</i> , 2000, 85, 22-25.	7.8	135
4	Two-proton radioactivity studies with ^{45}Fe and ^{48}Ni . <i>Physical Review C</i> , 2005, 72, .	2.9	120
5	Two-proton radioactivity and three-body decay. II. Exploratory studies of lifetimes and correlations. <i>Physical Review C</i> , 2003, 68, .	2.9	119
6	Proton-proton correlations observed in two-proton radioactivity of ^{94}Ag . <i>Nature</i> , 2006, 439, 298-302.	27.8	119
7	Two-proton radioactivity and three-body decay: General problems and theoretical approach. <i>Physical Review C</i> , 2001, 64, .	2.9	104
8	Two-Proton Widths of ^{12}O , ^{16}N , and Three-Body Mechanism of Thomas-Ehrman Shift. <i>Physical Review Letters</i> , 2002, 88, 042502.	7.8	74
9	Prospective candidates for the two-proton decay studies I: structure and Coulomb energies of ^{17}Ne and ^{19}Mg . <i>Nuclear Physics A</i> , 2003, 713, 372-389.	1.5	73
10	Two-proton radioactivity and three-body decay. III. Integral formulas for decay widths in a simplified semianalytical approach. <i>Physical Review C</i> , 2007, 76, .	2.9	63
11	Three-body decay of ^{6}Be . <i>Physical Review C</i> , 2009, 80, .	2.9	59
12	Democratic Decay of ^{6}Be Exposed by Correlations. <i>Physical Review Letters</i> , 2012, 109, 202502.	7.8	59
13	Two-neutron radioactivity and four-nucleon emission from exotic nuclei. <i>Physical Review C</i> , 2011, 84, .	2.9	56
14	Nuclear structure of ^5H in a three-body $^3\text{H}+n+n$ model. <i>Physical Review C</i> , 2000, 62, .	2.9	53
15	Correlation studies of the ^5H spectrum. <i>Physical Review C</i> , 2005, 72, .	2.9	51
16	Complete correlation studies of two-proton decays: ^6Be and ^{45}Fe . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 677, 30-35.	4.1	50
17	Structure of ^{10}He Low-Lying States Uncovered by Correlations. <i>Physical Review Letters</i> , 2012, 108, 202502.	7.8	43
18	Observation of Long-Range Three-Body Coulomb Effects in the Decay of ^{16}Ne . <i>Physical Review Letters</i> , 2014, 113, 232501.	7.8	42

#	ARTICLE	IF	CITATIONS
19	Extended three-cluster model with two-cluster long-range correlations: Application to the ^8Li , ^8B nuclei. Physical Review C, 1999, 60, .	2.9	41
20	Two-proton radioactivity and three-body decay. IV. Connection to quasiclassical formulation. Physical Review C, 2007, 76, .	2.9	38
21	Prospective candidates for the two-proton decay studies. (II) Exploratory studies of ^{30}Ar , ^{34}Ca , and ^{45}Fe . Nuclear Physics A, 2003, 714, 425-440.	1.5	37
22	Soft dipole mode in ^{17}Ne and the astrophysical $2p$ capture on ^{15}O . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 641, 254-259.	4.1	37
23	Observation and Spectroscopy of New Proton-Unbound Isotopes ^{30}Ar $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \text{Ar} \text{mml:mi} \rangle \text{mml:mrow} \rangle \text{mml:mprescripts} \rangle \text{mml:math}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:mn} \text{30} \text{mml:mn} \rangle \text{mml:mrow} \rangle \text{mml:mmultiscripts} \rangle \text{mml:mrow} \rangle \text{mml:math}$ and ^{30}Ar $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \text{Ar} \text{mml:mi} \rangle \text{mml:mrow} \rangle \text{mml:mprescripts} \rangle \text{mml:math}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:mn} \text{30} \text{mml:mn} \rangle \text{mml:mrow} \rangle \text{mml:mmultiscripts} \rangle \text{mml:mrow} \rangle \text{mml:math}$	7.8	37
24	Three-body resonant radiative capture reactions in astrophysics. Physical Review C, 2005, 72, .	2.9	36
25	Estimates of the 7H width and lower decay energy limit. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 588, 163-171.	4.1	33
26	Three-body correlations in electromagnetic dissociation of Borromean nuclei: The ^6He case. Nuclear Physics A, 2005, 759, 23-42.	1.5	32
27	Interplay between sequential and prompt two-proton decay from the first excited state of ^{16}Ne $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \text{Ne} \text{mml:mi} \rangle \text{mml:mrow} \rangle \text{mml:mprescripts} \rangle \text{mml:math}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:mn} \text{16} \text{mml:mn} \rangle \text{mml:mrow} \rangle \text{mml:mmultiscripts} \rangle \text{mml:mrow} \rangle \text{mml:math}$	1.5	29
28	Theoretical study of two-proton radioactivity. Status, predictions, and applications. Physics of Particles and Nuclei, 2009, 40, 674-714.	0.7	28
29	Halo formation and breakup: lessons and open questions. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 064026.	3.6	25
30	Studies of light exotic nuclei in the vicinity of neutron and proton drip lines at FLNR JINR. Physics-Uspekhi, 2016, 59, 321-366.	2.2	23
31	The ACCULINNA-2 project: The physics case and technical challenges. European Physical Journal A, 2018, 54, 1.	2.5	23
32	Continuum excitations of ^{26}O in a three-body model: 0^+ and 2^+ states. Physical Review C, 2015, 91, .	2.9	22
33	^6He beta decay to the \hat{I}^{\pm} channel in a three-body model. Physical Review C, 1993, 47, 2937-2940.	2.9	21
34	Scientific program of DERICA "prospective accelerator and storage ring facility for radioactive ion beam research. Physics-Uspekhi, 2019, 62, 675-690.	2.2	20
35	Three-body decays of light nuclei: ^6Be , ^8Li , ^9Be , ^{12}O , ^{16}Ne , and ^{17}Ne . European Physical Journal A, 2002, 15, 125-129.	2.5	19
36	Isvector soft dipole mode in ^6Be . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 6-13.	4.1	18

#	ARTICLE	IF	CITATIONS
37	Decay mechanism and lifetime of ^{67}Kr . Physical Review C, 2017, 95, .	2.9	18
38	Deep excursion beyond the proton dripline. I. Argon and chlorine isotope chains. Physical Review C, 2018, 98, .	2.9	17
39	Two-proton radioactivity and three-body decay. V. Improved momentum distributions. Physical Review C, 2010, 82, .	2.9	16
40	LIFETIME OF ^{26}S AND A LIMIT FOR ITS 2p DECAY ENERGY. International Journal of Modern Physics E, 2011, 20, 1491-1508.	1.0	16
41	Sensitivity of three-body decays to the reactions mechanism and the initial structure by example of ^6Be . Physical Review C, 2012, 86, .	2.9	15
42	Exploring the manifestation and nature of a dineutron in two-neutron emission using a dynamical dineutron model. Physical Review C, 2018, 97, .	2.9	14
43	Two-proton events in the $^{17}\text{F}(p,2p)^{16}\text{O}$ reaction. Physical Review C, 2002, 65, .	2.9	13
44	Transition from direct to sequential two-proton decay in d shell nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 263-270.	4.1	12
45	Spectroscopy of excited states of unbound nuclei ^{30}Ar and ^{30}Cl . From Coulomb excitation cross sections to nonresonant astrophysical rates in three-body systems. The ^{17}Ne case. Physical Review C, 2018, 98, .	2.9	8
46	High-precision studies of the soft dipole mode in two-neutron halo nuclei: The ^6He case. Physical Review C, 2020, 102, .	2.9	8
47	Light Exotic Nuclei at JINR: ACCULINNA and ACCULINNA-2 Facilities. Nuclear Physics News, 2014, 24, 22-27.	0.4	7
48	Three-body correlations in direct reactions: Example of ^6Be populated in the (p,n) reaction. Physical Review C, 2018, 98, .	2.9	5
49	Deep excursion beyond the proton dripline. II. Toward the limits of existence of nuclear structure. Physical Review C, 2018, 98, .	2.9	5
50	Pauli-Principle Driven Correlations in Four-Neutron Nuclear Decays. JETP Letters, 2019, 110, 5-14.	1.4	4
51	^6H states studied in the ^6He case.		
52			

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55	Two-proton decay of the ${}^6\text{Be}$ ground state and the double isobaric analog of ${}^{11}\text{Li}$. Journal of Physics: Conference Series, 2013, 420, 012073.	0.4	1
56	DERICA Project: Dubna Electron-Radioactive Isotope Collider Facility. Physics of Particles and Nuclei Letters, 2018, 15, 997-1001.	0.4	1
57	Asymptotic normalization coefficient method for two-proton radiative capture. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135852.	4.1	1
58	Recent results related to excited states of ${}^6\text{Be}$ and ${}^{10}\text{He}$. EPJ Web of Conferences, 2012, 38, 15002.	0.3	0
59	DERICA Project and Strategies of the Development of Low-Energy Nuclear Physics. Physics of Atomic Nuclei, 2021, 84, 68-81.	0.4	0