

Alexander Frank

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1468760/publications.pdf>

Version: 2024-02-01

50
papers

516
citations

687363

13
h-index

794594

19
g-index

50
all docs

50
docs citations

50
times ranked

115
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Possibility of Creating a UCN Source at a Periodic Pulsed Reactor. Physics of Particles and Nuclei, 2022, 53, 33-44.	0.7	2
2	Interaction of a wave packet with potential structures moving with acceleration. European Physical Journal D, 2021, 75, 1.	1.3	3
3	Reflection of neutrons from a resonant potential structure oscillating in space. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 420, 127748.	2.1	1
4	On Observation of the Goos-Hänchen Shift of a Neutron Beam. Journal of Surface Investigation, 2020, 14, S127-S131.	0.5	1
5	Nonstationary neutron diffraction by surface acoustic waves. Physical Review B, 2020, 101, .	3.2	3
6	Interaction of Ultracold Neutrons with a Neutron Interference Filter Oscillating in Space. Journal of Surface Investigation, 2020, 14, 6-12.	0.5	3
7	Nonstationary Diffraction of Ultracold Neutrons from a Moving Grating and Efficiency of Energy Transfer to a Neutron. Journal of Experimental and Theoretical Physics, 2019, 129, 806-811.	0.9	3
8	Goos-Hänchen effect in neutron optics and the reflection time of neutron waves. Physics-Uspokhi, 2018, 61, 952-964.	2.2	7
9	New test of the dynamic theory of neutron diffraction by a moving grating. EPJ Web of Conferences, 2018, 177, 03005.	0.3	0
10	Ultracold neutrons and the interaction of waves with moving matter. Physics of Particles and Nuclei, 2016, 47, 647-666.	0.7	7
11	Spectroscopy of ultracold neutrons diffracted by a moving grating. Physical Review A, 2016, 93, .	2.5	10
12	Dynamic theory of neutron diffraction from a moving grating. Journal of Experimental and Theoretical Physics, 2016, 122, 32-42.	0.9	11
13	On the dispersion law of neutrons in accelerated matter. JETP Letters, 2015, 100, 613-614.	1.4	7
14	On the Goos-Hänchen effect in neutron optics. Journal of Physics: Conference Series, 2014, 528, 012029.	0.4	4
15	Acceleration and deceleration of neutrons: From the phase modulation of a neutron wave to a neutron turbine with refracting prisms. Physics of Atomic Nuclei, 2013, 76, 544-548.	0.4	3
16	Interaction of waves with a birefringent medium moving with acceleration. Physics of Atomic Nuclei, 2013, 76, 1423-1433.	0.4	11
17	Accelerating medium effect as a general wave phenomenon. Journal of Physics: Conference Series, 2012, 340, 012042.	0.4	5
18	New experiment on the observation of the effect of accelerating matter in neutron optics. JETP Letters, 2011, 93, 361-365.	1.4	21

#	ARTICLE	IF	CITATIONS
19	Commemoration of the centenary of the birth of Academician I M Frank (Scientific session of the) Tj ETQq1 1 0.784314 rgBT /Overlo 52, 377-413.	2.2	11
20	New test of the weak equivalence principle for neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 611, 314-317.	1.6	11
21	Dynamic reflection and refraction of neutrons. Physica B: Condensed Matter, 2009, 404, 2550-2552.	2.7	7
22	On the possibility of measuring the gravitational interaction of the neutron with a macroscopic body. Physics of Atomic Nuclei, 2009, 72, 1818-1822.	0.4	3
23	Effect of accelerated matter in neutron optics. Physics of Atomic Nuclei, 2008, 71, 1656-1674.	0.4	27
24	New gravitational experiment with ultracold neutrons. JETP Letters, 2007, 86, 225-229.	1.4	24
25	Experimental verification of the $1/v$ law for the absorption cross section of ultracold neutrons in natural gadolinium. JETP Letters, 2006, 84, 105-109.	1.4	5
26	Effect of accelerating matter in neutron optics. JETP Letters, 2006, 84, 363-367.	1.4	17
27	Neutron diffraction at a moving grating as a nonstationary quantum phenomenon. JETP Letters, 2005, 81, 427-431.	1.4	17
28	Dynamic reflection and refraction of neutrons at the boundaries of matter characterized by a variable magnetic induction. Physics of Atomic Nuclei, 2005, 68, 1104-1119.	0.4	13
29	Quantum effects in a one-dimensional magnetic gravitational trap for ultracold neutrons. JETP Letters, 2004, 79, 313-315.	1.4	8
30	Diffraction of ultracold neutrons on a moving grating and neutron focusing in time. Physica B: Condensed Matter, 2004, 350, 246-249.	2.7	15
31	Phase modulation of a neutron wave and diffraction of ultracold neutrons on a moving grating. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 311, 6-12.	2.1	30
32	Neutron optics of strongly absorbing media and interaction of long-wave neutrons with gadolinium films. Physics of Atomic Nuclei, 2003, 66, 1831-1845.	0.4	14
33	A quantum time lens for ultracold neutrons. JETP Letters, 2003, 78, 188-192.	1.4	18
34	Neutron Spin Precession Optics: Recent Results and Some Perspectives. Lecture Notes in Physics, 2002, , 165-175.	0.7	1
35	Measurement of the neutron interaction time with quantum objects. JETP Letters, 2002, 75, 605-609.	1.4	12
36	Larmor spin precession and neutron optics. Physics of Atomic Nuclei, 2002, 65, 2009-2020.	0.4	12

#	ARTICLE	IF	CITATIONS
37	Larmor clock and measuring of neutron interaction time with quantum objects. Physica B: Condensed Matter, 2001, 297, 307-310.	2.7	14
38	Time focusing of neutrons. Physics of Atomic Nuclei, 2000, 63, 545-547.	0.4	23
39	<title>Neutron multilayer structures for fundamental experiments in UCN optics</title>. , 1999, 3767, 360.		8
40	Experimental check of the dispersion law for ultracold neutrons. JETP Letters, 1998, 67, 786-792.	1.4	4
41	Superslow neutrons and the dispersion law for neutron waves in matter. Physical Review A, 1997, 55, 1129-1139.	2.5	10
42	Diffraction in Time and a New Type of Interferometry with Nonseparated Beamsa. Annals of the New York Academy of Sciences, 1995, 755, 293-302.	3.8	7
43	Neutron Multiray Reflectiona. Annals of the New York Academy of Sciences, 1995, 755, 858-860.	3.8	8
44	Neutron diffraction on a moving grating and quasi-energy of cold neutrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 188, 120-124.	2.1	30
45	Neutron spin interferometry. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 153, 299-302.	2.1	24
46	Petr Efimovich Spivak (on his eightieth birthday). Uspekhi Fizicheskikh Nauk, 1991, 34, 639-640.	0.3	0
47	Modern optics of long-wavelength neutrons. Uspekhi Fizicheskikh Nauk, 1991, 34, 980-987.	0.3	10
48	Ultracold-neutron microscopy. Soviet Atomic Energy, 1989, 66, 106-114.	0.1	6
49	Optics of ultracold neutrons and the neutron-microscope problem. Uspekhi Fizicheskikh Nauk, 1987, 30, 110-133.	0.3	15
50	Fundamental properties of the neutron: Fifty years of research. Uspekhi Fizicheskikh Nauk, 1982, 25, 280-297.	0.3	10