

R Wolski

List of Publications by Year in descending order

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135
papers

2,261
citations

159585

30
h-index

243625

44
g-index

137
all docs

137
docs citations

137
times ranked

914
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Enhancement of the Sub-barrier Fusion Probability for a Halo Nucleus. Physical Review Letters, 2000, 84, 2342-2345.	7.8	143
2	Superheavy HydrogenH5. Physical Review Letters, 2001, 87, 092501.	7.8	113
3	Global optical model potential for $A=3$ projectiles. Physical Review C, 2009, 79, .	4.1	76
4	Two-neutron exchange observed in the $6\text{He}+4\text{He}$ reaction. Search for the "di-neutron" configuration of 6He . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 426, 251-256.	4.1	76
5	Study of the unbound nucleus ^{11}Li by elastic resonance scattering. Physical Review C, 1996, 54, R1511-R1514.	2.9	71
6	The 8He and 10He spectra studied in the $^6\text{Li}+^4\text{He}$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 672, 22-29.	2.9	63
7	Experimental evidence for subshell closure in ^8He and indication of a resonant state in ^7He below 1 MeV. Physical Review C, 2006, 73, .	2.9	63
8	Crossing the dripline to ^{11}N using elastic resonance scattering. Physical Review C, 2000, 62, .	2.9	56
9	Cluster structure of ^6He studied by means of $^6\text{He} + p$ reaction at 25 MeV/n energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 467, 8-14.	4.1	55
10	MAYA: An active-target detector for binary reactions with exotic beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 583, 341-349.	1.6	52
11	Correlation studies of the ^5H spectrum. Physical Review C, 2005, 72, .	2.9	51
12	Resonance State in ^7H . Physical Review Letters, 2007, 99, 062502.	7.8	48
13	Evidences for resonance states in ^5H . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 566, 70-75.	4.1	44
14	$T=5/2$ states in ^9Li : Isobaric analog states of ^9He . Physical Review C, 2003, 67, .	2.9	44
15			

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19	Observation of Excited States in ^5H . <i>Physical Review Letters</i> , 2004, 93, 262501.	7.8	41
20	^6He interaction with protons. <i>Physical Review C</i> , 2001, 64, .	2.9	38
21	Optical Time Projection Chamber for imaging nuclear decays. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 581, 194-197.	1.6	38
22	New excited states in the halo nucleus ^6He . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 718, 441-446.	4.1	38
23	New insight into the low-energy ^6He spectrum. <i>Physical Review C</i> , 2007, 76, .	2.9	37
24	Investigation of ^6He cluster structures. <i>Physical Review C</i> , 2005, 71, .	2.9	36
25	Fission of ^{209}Bi induced by ^6He ions. <i>Zeitschrift für Physik A</i> , 1995, 351, 129-130.	0.9	34
26	High resolution line for secondary radioactive beams at the U400M cyclotron. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 126, 236-241.	1.4	33
27	Status of ACCULINNA beam line. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 204, 114-118.	1.4	33
28	Estimates of the ^7H width and lower decay energy limit. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 588, 163-171.	4.1	33
29	An above-barrier narrow resonance in ^{15}F . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 758, 26-31.	4.1	31
30	Nonequilibrium α emission in deeply inelastic $^{16}\text{O}+^{58}\text{Ni}$ collisions at 6 and 9 MeV/nucleon. <i>Physical Review C</i> , 1983, 27, 584-589.	2.9	30
31	Important pickup coupling effect on ^6He . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 588, 163-171.	4.1	29
32	Tritium target for research in exotic neutron-excess nuclei. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 513, 439-447.	1.6	27
33	Sub-barrier fusion of ^6He with ^{206}Pb . <i>European Physical Journal A</i> , 2011, 47, 1.	2.5	25
34	Resonance states of hydrogen nuclei ^4H and ^5H obtained in transfer reactions with exotic beams. <i>Nuclear Physics A</i> , 2003, 719, C229-C232.	1.5	24
35	Experimental study of ^4H in the reactions $^2\text{H}(t,p)$ and $^3\text{H}(t,d)$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 594, 54-60.	4.1	23
36	Shadowing of γ -emitting fragments observed in $^{313}\text{MeV}^{32}\text{S}+^{93}\text{Nb}$ collisions. <i>Zeitschrift für Physik A</i> , 1983, 310, 269-273.	1.4	22

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37	entail study of resonance states in ^7H and ^7He reactions at 16.8 MeV. European Physical Journal A, 2010, 43, 153-158.	2.9	22
38	6He + 9Be reactions at 16.8 MeV. European Physical Journal A, 2010, 43, 153-158.	2.5	22
39	Low-lying states and structure of the exotic 8He via direct reactions on the proton. Nuclear Physics A, 2007, 788, 260-265.	1.5	21
40	Compound nucleus aspect of sub-barrier fusion: A new energy scaling behavior. Physical Review C, 2013, 88, .	2.9	19
41	Isovector soft dipole mode in 6Be. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 6-13.	4.1	18
42	Breakup and neutron-transfer effects on $^6\text{He} + ^{206}\text{Pb}$ elastic scattering below the Coulomb barrier. Physical Review C, 2013, 87, .	2.9	18
43	Comparative studies of Coulomb barrier heights for nuclear models applied to sub-barrier fusion. Physical Review C, 2014, 90, .	2.9	18
44	High resolution beam line of the U400M cyclotron and a possibility of RIB accumulation and cooling in the K4 storage ring. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 391, 228-232.	1.6	16
45	Interaction of 8He nuclei with $\hat{1}\pm$ particles and protons at a beam energy of 26 MeV/n. Nuclear Physics A, 2002, 701, 29-34.	1.5	16
46	New insights into the resonance states of 5H and 5He. European Physical Journal A, 2005, 25, 315-320.	2.5	16
47	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
48	Spectroscopy of 7He and superheavy hydrogen isotope 5H. Physics of Atomic Nuclei, 2001, 64, 1244-1248.	0.4	15
49	Spectroscopy of 18Na: Bridging the two-proton radioactivity of 19Mg. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 712, 198-202.	4.1	15
50	Precise measurement of near-barrier $^6\text{He} + ^{208}\text{Pb}$ elastic scattering: Comparison with $^6\text{Li} + ^{208}\text{Pb}$ elastic scattering. Physical Review C, 2015, 92, .	2.9	15
51	Total reaction cross section and elastic scattering of 24.7 MeV alpha particles in the region of A = 60 nuclei. Nuclear Physics A, 1967, 106, 21-34.	1.5	14
52	Shadowing of sequential $\hat{1}\pm$ -emission in deep-inelastic $^{32}\text{S} + ^{93}\text{Nb}$ collisions: A new probe of fragment lifetimes. Nuclear Physics A, 1985, 437, 465-486.	1.5	13
53	New findings on structure and production of ^{10}He from ^{11}Li with the $(d, ^3\text{He})$ reaction. Physical Review C, 2015, 92, .	2.9	11
54	Evidence for the First Excited State of ^7H . Physical Review Letters, 2020, 124, 022502.	7.8	11

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55	Observation of an $\hat{1}\pm$ -cluster structure in ^{36}Ar . Physics of Atomic Nuclei, 2000, 63, 1518-1526.	0.4	10
56	5H and 5He nuclear systems studied by means of the $^6\text{He} + \dots + \dots + ^2\text{H}$ reaction. Nuclear Physics A, 2004, 738, 436-439.	1.5	10
57	Search for resonances in ^4n , ^7H and ^9He via transfer reactions. AIP Conference Proceedings, 2007, , .	0.4	10
58	Search for $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:tr} \rangle$ decay of the first excited state of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{Ne} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle$	2.9	10
59	Interaction of ^8He with ^{208}Pb at near-barrier energies: ^4He and ^6He production. Physical Review C, 2018, 98, .	2.9	10
60	Resonant states in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle$: Experimental studies of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="norm}$	2.9	9
61	Reactions induced beyond the dripline at low energy by secondary beams. European Physical Journal A, 2005, 25, 263-266.	2.5	8
62	Properties of very n -rich He isotopes. European Physical Journal A, 2009, 42, 465.	2.5	8
63	Study of the ^6He structure in the reaction of quasifree scattering $^4\text{He}(^6\text{He}, 2\hat{1}\pm)$. Nuclear Physics A, 2010, 840, 1-18.	1.5	8
64	A Neutron Spectrometer for Experiments with Radioactive Beams on the ACCULINNA-2 Fragment Separator. Instruments and Experimental Techniques, 2018, 61, 631-638.	0.5	8
65	New target and detection methods: active detectors. Nuclear Physics A, 2003, 722, C10-C16.	1.5	7
66	Resonance states of hydrogen nuclei ^4H and ^5H obtained in transfer reactions with exotic beams. Physics of Atomic Nuclei, 2003, 66, 1544-1551.	0.4	7
67	Radioactive ion beam research made in Dubna. Nuclear Physics A, 2004, 734, 295-302.	1.5	7
68	Search for $t+t$ clustering in ^6He . Nuclear Physics A, 2004, 738, 426-430.	1.5	7
69	Soft dipole mode in ^8He . Physics of Particles and Nuclei Letters, 2009, 6, 118-125.	0.4	7
70	Title is missing!. Acta Physica Polonica B, 2012, 43, 239.	0.8	7
71	Study of the $^{24}\text{Mg}(\hat{1}\pm, ^{12}\text{C})^{16}\text{O}$ reaction in the energy range $E_{\text{lab}} = 24.9\hat{a}\text{E}27.76$ MeV. Nuclear Physics A, 1986, 452, 432-444.	1.5	6
72	Superheavy hydrogen ^5H and spectroscopy of ^7He . Physics of Atomic Nuclei, 2002, 65, 664-668.	0.4	6

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91	Search for extremely neutron rich systems. Nuclear Physics A, 2004, 738, 431-435.	1.5	2
92	Study of the ground-state wave function of ${}^6\text{He}$ via the ${}^6\text{He}(p, t)\hat{1}\pm$ transfer reaction. European Physical Journal A, 2005, 25, 267-269.	2.5	2
93	SPECTROSCOPY OF THE UNBOUND NUCLEUS ${}^{18}\text{Na}$. International Journal of Modern Physics E, 2011, 20, 971-975.	1.0	2
94	Study of complete and incomplete fusion for loosely bound projectiles ${}^6\text{He}$ and ${}^6\text{Li}$ on ${}^{165}\text{Ho}$ and ${}^{166}\text{Er}$ targets. Physics of Particles and Nuclei Letters, 2012, 9, 496-501.	0.4	2
95	Correlation investigations of the low-energy ${}^{10}\text{He}$ spectrum. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 355-359.	0.6	2
96	Near barrier scattering of ${}^8\text{He}$ on ${}^{208}\text{Pb}$. EPJ Web of Conferences, 2014, 66, 03058.	0.3	2
97	Do excited states exist in a system of two neutrons?. JETP Letters, 1998, 67, 903-909.	1.4	1
98	New Perspectives in the Studies of Resonance Scattering. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 215-222.	0.4	1
99	First Results of a ${}^8\text{He}+d$ Experiment. AIP Conference Proceedings, 2007, , .	0.4	1
100	The search for ${}^7\text{H}$. European Physical Journal: Special Topics, 2007, 150, 9-12.	2.6	1
101	Complete and Incomplete Fusion of ${}^6\text{He}$ and ${}^6\text{Li}$ Projectiles with Medium Mass Targets at Energy $\sim 10\text{A MeV}$. , 2009, , .		1
102	Fusion and reactions of exotic nuclei. EPJ Web of Conferences, 2011, 17, 13002.	0.3	1
103	The status of new fragment separator ACCULINNA-2 project and the first day experiments. EPJ Web of Conferences, 2014, 66, 11021.	0.3	1
104	A search for parameters of universal sub-barrier fusion excitation function. European Physical Journal A, 2016, 52, 1.	2.5	1
105	The First Experiments with the New ACCULINNA-2 Fragment Separator. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 385-391.	0.6	1
106	Study of the Near-barrier Scattering of ${}^8\text{He}$ on ${}^{208}\text{Pb}$. Acta Physica Polonica B, 2016, 47, 841.	0.8	1
107	Missing Mass Spectroscopy of ${}^8\text{He}$ and ${}^{10}\text{He}$ by $(d, {}^3\text{He})$ Reaction. , 2015, , .		1
108	Investigation of the elastic scattering and fission reactions induced by ${}^6\text{He}$ beam. Nuclear Physics A, 1995, 583, 791-794.	1.5	0

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109	Direct Reactions Involving Exotic Nuclei ^8He and ^5H . Acta Physica Hungarica A Heavy Ion Physics, 2001, 14, 395-404.	0.4	0
110	Resonance States of Superheavy Hydrogen Nuclei Obtained in Transfer Reactions with Exotic Beams. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 141-148.	0.4	0
111	Isobaric analog states as a tool for spectroscopy of exotic nuclei. Nuclear Instruments & Methods in Physics Research B, 2005, 241, 977-982.	1.4	0
112	Spectroscopy of ^9He , Quasi-free Scattering $^6\text{He}+^4\text{He}$. AIP Conference Proceedings, 2007, , .	0.4	0
113	Production and Characterization of the ^7H Resonance. AIP Conference Proceedings, 2007, , .	0.4	0
114	Three-Body Correlations In ^6He Revealed In The Quasi-Free Knockout Reaction $^4\text{He}(^6\text{He},2^1\pm)2n$. AIP Conference Proceedings, 2007, , .	0.4	0
115	Imaging nuclear decays with Optical Time Projection Chamber. AIP Conference Proceedings, 2007, , .	0.4	0
116	Properties of low-lying ^9He state. European Physical Journal: Special Topics, 2007, 150, 23-26.	2.6	0
117	Quest for the ^{10}He nucleus. European Physical Journal: Special Topics, 2008, 162, 161-164.	2.6	0
118	Spectrum of multicluster states of ^{44}Ti nucleus in the generalized Elliott SU(3) model. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1223-1226.	0.6	0
119	Unbound states studied by direct reactions. Journal of Physics: Conference Series, 2008, 111, 012031.	0.4	0
120	Investigation of the ^6He structure in quasi free scattering reactions. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 437-442.	0.6	0
121	Fragment Separator ACCULINNA-2. , 2010, , .		0
122	Sub-barrier Fusion and Breakup of Light Halo Nuclei. , 2011, , .		0
123	Reactions of halo nuclei at energies around the Coulomb barrier. , 2012, , .		0
124	Status of the ACCULINNA-2 project at FLNR. Journal of Physics: Conference Series, 2012, 337, 012025.	0.4	0
125	Recent results related to excited states of ^6Be and ^{10}He . EPJ Web of Conferences, 2012, 38, 15002.	0.3	0
126	Research program for the radioactive beams of the ACCULINNA-2 separator. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1172-1176.	0.6	0

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127	Scattering of [⁸ He] on [²⁰⁸ Pb] at 22 MeV. , 2013, , .		0
128	Publisher's Note: Comparative studies of Coulomb barrier heights for nuclear models applied to sub-barrier fusion [Phys. Rev. C90, 064603 (2014)]. Physical Review C, 2015, 91, .	2.9	0
129	^{10}Li from ^{10}He with the ^{11}Li α -decay. Physical Review C, 2015, .	0	0
130	Reply to "Comment on "Compound nucleus aspect of sub-barrier fusion: A new energy scaling behavior" Physical Review C, 2016, 93, .	2.9	0
131	Detailed Study of External Correlations in the Low-Energy Spectrum of Beryllium-6. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 392-398.	0.6	0
132	Investigation of $t + t$ collisions using the ACCULINNA beam line. , 2003, , 229-229.		0
133	The Properties of ^{28}Si Resonances at the 31.5 MeV and 33.2 MeV Excitation Energies via the $^{24}\text{Mg}(\hat{1}_{\pm}, T_j \text{ ETQq}1_{0,1})_{0,1} \text{rgBT} / \text{Ove}$		0
134	Study of the ground-state wave function of ^6He via the $^6\text{He}(p; t)\hat{1}_{\pm}$ transfer reaction. , 2005, , 267-269.		0
135	New insights into the resonance states of ^5H and ^5He . , 2005, , 315-320.		0