

Alinka Lepine-Szily

List of Publications by Year in descending order

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165
papers

2,865
citations

172457

29
h-index

223800

46
g-index

166
all docs

166
docs citations

166
times ranked

1114
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear Reactions with Stable and Radioactive Ion Beams at LAFN-IFUSP. Brazilian Journal of Physics, 2021, 51, 287-297.	1.4	0
2	Experiments with $A = 6\text{--}8$ exotic beams in RIBRAS. European Physical Journal A, 2021, 57, 1.	2.5	8
3	Understanding the mechanisms of nuclear collisions: A complete study of the $^{10}\text{B} + ^{120}\text{Sn}$ reaction. Physical Review C, 2021, 103, .	2.9	8
4	Coupled channels effects in heavy ion reactions. European Physical Journal A, 2021, 57, 1.	2.5	5
5	Study of the ^{33}Cl spectroscopic factors via the $^{32}\text{S}(^3\text{He}, \text{Tj ETQq1 1 0.784314 rgBT /Overloc}$ 2021, 48, 065101.	3.6	8
6	Evidence of the effect of strong stripping channels on the dynamics of the $^{8}\text{Li} + ^{58}\text{Ni}$ reaction. Physical Review C, 2021, 103, .	2.9	4
7	A method to optimize mass discrimination of particles identified in $\Delta E - E$ silicon surface barrier detector systems. European Physical Journal A, 2020, 56, 1.	2.5	8
8	Investigation of the one-neutron transfer in $\text{C13} + \text{Si28}$ at $E_{\text{lab}} = 30$ and 34 MeV. Physical Review C, 2020, 101, .	2.9	7
9	Investigation of the fusion process for $^{10}\text{B} + ^{10}\text{B}$ reaction.	2.9	10
10	Investigation of the fusion process for $^{10}\text{B} + ^{197}\text{Au}$ at near-barrier energies. Physical Review C, 2020, 101, .	2.9	12
11	New investigations on the $^{32}\text{S}(^3\text{He}, d)^{33}\text{Cl}$ reaction at 9.6 MeV bombarding energy. Journal of Physics: Conference Series, 2020, 1643, 012047.	0.4	0
12	Alpha-particle production in the $^6\text{He} + ^{120}\text{Sn}$ collision. Journal of Physics: Conference Series, 2020, 1643, 012093.	0.4	0
13	Two-neutron transfer in $^7\text{Be} + ^{9}\text{Be}$ collisions. Physical Review C, 2019, 99, .	2.9	18
14	Recent results from RIBRAS (Radioactive Ion Beams in Brasil). Journal of Physics: Conference Series, 2019, 1291, 012004.	0.4	0
15	Spin-orbit effects in the $^8\text{Li} + ^{58}\text{Ni}$ elastic scattering. Journal of Physics: Conference Series, 2019, 1291, 012030.	0.4	3
16	New investigations on the $^{32}\text{S}(^3\text{He}, d)^{33}\text{Cl}$ reaction at 9.6 MeV bombarding energy. EPJ Web of Conferences, 2019, 223, 01011.	0.3	0
17	Systematic study of optical potential strengths in reactions on ^{120}Sn involving strongly bound, ^{120}Sn reaction. Physical Review C, 2019, 100, .	2.9	14
18	Two-neutron transfer in the $^6\text{He} + ^{120}\text{Sn}$ reaction. Physical Review C, .	2.9	17

#	ARTICLE	IF	CITATIONS
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19

scopy of high-lying resonances in ${}^{\infty}\text{Be}$

$\langle \text{http://www.w3.org/1998/Math/MathML} \rangle \langle \text{http://www.w3.org/1998/Math/MathML} \rangle \langle \text{http://www.w3.org/1998/Math/MathML} \rangle$

#	ARTICLE	IF	CITATIONS
37	Elastic scattering measurements for [⁷ Be+ ²⁷ Al] system at RIBRAS facility. , 2013, , .		0
38	SIM-RIBRAS: A Monte-Carlo simulation package for RIBRAS system. , 2013, , .		3
39	Cluster structures observed in ⁴⁰ Ca from ¹² C+ ²⁸ Si scattering. Journal of Physics: Conference Series, 2013, 436, 012015.	0.4	2
40	Nuclear astrophysics: nucleosynthesis in the Universe. International Journal of Astrobiology, 2012, 11, 243-250.	1.6	3
41	Recent results with radioactive ion beams in Brasil (RIBRAS). , 2012, , .		0
42	Physics with rare ion beams in Brazil. , 2012, , .		0
43	Reactions with ⁸ Li at RIBRAS (Radioactive Ion Beams in Brasil): Astrophysical and nuclear structure applications. , 2012, , .		0
44	The ⁸ Li(p, [±]) ⁵ He reaction at low energies, and ⁹ Be spectroscopy around the proton threshold. Physical Review C, 2012, 86, .	2.9	11
45	Decoherence of quantum kinematical correlations: Elastic scattering of identical particles. Physical Review A, 2012, 86, .	2.5	0
46	$\frac{7}{9} < \frac{10}{12} >$ elastic scattering and total reaction cross sections on a ^{12}C target. Physical Review C, 2011, 84, .	2.9	32
47	Low energy nuclear reactions with RIBRAS, Radioactive Ion Beam in Brasil, system. Journal of Physics: Conference Series, 2011, 312, 082024.	0.4	0
48	The [⁸ Li(p, [±]) ⁵ He] Reaction Measured at Astrophysical Energies at RIBRAS. , 2011, , .		0
49	Experimental study of ^{He6} + ^{Be9} elastic scattering at low energies. Physical Review C, 2011, 83, .	2.9	36
50	Resolving nuclear reaction products at solenoid focal spot. , 2011, , .		4
51	On the hyperdeformed state of the ³⁶ Ar nucleus. Journal of Physics: Conference Series, 2010, 239, 012006.	0.4	4
52	Exotic shapes and clusterization of atomic nuclei. Journal of Physics: Conference Series, 2010, 205, 012022.	0.4	1
53	Total reaction cross-sections for light weakly bound systems. European Physical Journal A, 2010, 45, 23-28.	2.5	25
54	Scientific program of the Radioactive Ion Beams Facility in Brasil (RIBRAS). Nuclear Physics A, 2010, 834, 491c-494c.	1.5	2

#	ARTICLE	IF	CITATIONS
55	Elastic scattering and total reaction cross section of $He6+Sn120$. Physical Review C, 2010, 81, . Comparison of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \langle \text{mml:mi mathvariant="normal"} \rangle Sn \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \rangle \langle \text{mml:none} \rangle$	2.9	66
56			

#	ARTICLE	IF	CITATIONS
73	Direct mass measurement of $N \approx 1/4 Z$ nuclei with $A = 64 \leq 80$ using the CSS2 cyclotron. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1771-S1774.	3.6	10
74	Mass measurements with the CIME cyclotron at GANIL. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1869-S1872.	3.6	7
75	Facilities and Methods: Radioactive Ion Beam Facility in Brazil (RIBRAS). Nuclear Physics News, 2005, 15, 25-27.	0.4	8
76	Reaction cross-sections and reduced strong absorption radii of nuclei in the vicinity of closed shells $N = 20$ and $N = 28$. , 2005, , 223-226.		0
77	Radioactive Ion beams in Brazil (RIBRAS). , 2005, , 733-736.		1
78	Anomalous behaviour of matter radii of proton-rich Ga, Ge, As, Se and Br nuclei. , 2005, , 227-230.		0
79	Higher order effects in the $O^{16}(d,p)O^{17}$ and $O^{16}(d,n)F^{17}$ transfer reactions. Physical Review C, 2004, 70, .	2.9	6
80	No enhancement of fusion probability by the neutron halo of ${}^6\text{He}$. Nature, 2004, 431, 823-826.	27.8	162
81	Spectroscopy of light proton-rich nuclei: ${}^9\text{C}$ and ${}^{15}\text{F}$. Nuclear Physics A, 2004, 734, 331-336.	1.5	19
82	Reaction cross section and matter radius measurements of proton-rich Ga, Ge, As, Se and Br nuclides. Nuclear Physics A, 2004, 735, 303-328.	1.5	23
83	Symmetry Properties of Radioactive $N = Z$ Nuclei. Acta Physica Hungarica A Heavy Ion Physics, 2004, 19, 365-368.	0.4	2
84	Spectroscopy of ${}^6\text{Li}$ using the ${}^3\text{He}({}^7\text{Li}, \alpha){}^6\text{Li}$ reaction. Brazilian Journal of Physics, 2004, 34, 933-935.	1.4	5
85	Progress in RIBRAS radioactive ion beams in Brasil project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 505, 612-615.	1.6	5
86	Searching for resonance in the unbound ${}^6\text{Be}$ and ${}^5\text{Li}$ nuclei. Nuclear Physics A, 2003, 722, C341-C346.	1.5	6
87	Spectroscopy of light proton-rich unbound nuclei: ${}^{15}\text{F}$, ${}^{10}\text{B}$, ${}^{11}\text{N}$. Nuclear Physics A, 2003, 722, C512-C517.	1.5	14
88	Experimental determination of the surface density for the ${}^6\text{He}$ exotic nucleus. Physical Review C, 2003, 67, .	2.9	52
89	Radioactive ion beams in Brasil (RIBRAS). Brazilian Journal of Physics, 2003, 33, 294-296.	1.4	7
90	Direct mass measurements of Ge, As, Se and Br isotopes close to the proton drip line. , 2003, , 33-37.		0

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91	Direct mass measurements of proton-rich isotopes of Ge, As, Se, and Br. <i>Physical Review C</i> , 2002, 65, .	2.9	36
92	Observation of the particle-unstable nucleus ^{10}N . <i>Physical Review C</i> , 2002, 65, .	2.9	18
93	Proton reaction cross-section measurements on stable and neutron-rich nuclei as a probe of the nucleon-nucleus interaction. <i>Nuclear Physics A</i> , 2002, 706, 295-312.	1.5	21
94	A determination of the interaction potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 505, 15-20.	4.1	19
95	Electric and nuclear transition strength in $^{30,32}\text{Mg}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 514, 233-239.	4.1	82
96	Measurement of the charge and mass deformation of $^{30,32}\text{Mg}$ by inelastic scattering on ^{208}Pb and ^{12}C . <i>Nuclear Physics A</i> , 2001, 682, 161-168.	1.5	3
97	Proton scattering from the unstable nuclei ^{30}S and ^{34}Ar : structural evolution along the sulfur and argon isotopic chains. <i>Nuclear Physics A</i> , 2001, 694, 103-131.	1.5	55
98	Measurement of a strong atomic hyperfine field allowing the determination of nuclear g-factors in (sub)nanosecond states. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 462, 588-595.	1.6	0
99	Mass Measurements of Exotic Nuclei around $N=Z=40$ with CSS2. <i>Hyperfine Interactions</i> , 2001, 132, 313-320.	0.5	21
100	Experimental Overview of Mass Measurements. <i>Hyperfine Interactions</i> , 2001, 132, 35-57.	0.5	7
101	The Mass Programme at GANIL Using the CSS2 and CIME Cyclotrons. <i>Hyperfine Interactions</i> , 2001, 132, 273-279.	0.5	4
102	Static Quadrupole Moment of the Five-Quasiparticle $K=352$ Isomer in ^{179}W Studied with the Level-Mixing Spectroscopy Method. <i>Physical Review Letters</i> , 2001, 86, 604-607.	7.8	20
103	The Mass Programme at GANIL Using the CSS2 and CIME Cyclotrons. , 2001, , 275-281.		0
104	Mass Measurements of Exotic Nuclei around $N = Z = 40$ with CSS2. , 2001, , 315-322.		0
105	Experimental Overview of Mass Measurements. , 2001, , 35-57.		1
106	Preservation of orientation of fusion-evaporation reaction residues recoiling into vacuum in a level mixing spectroscopy experiment. <i>Physical Review C</i> , 2000, 62, .	2.9	5
107	Observation of the ^{11}N Ground State. <i>Physical Review Letters</i> , 2000, 84, 4056-4059.	7.8	37
108	Large Enhancement of the Sub-barrier Fusion Probability for a Halo Nucleus. <i>Physical Review Letters</i> , 2000, 84, 2342-2345.	7.8	143

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109	Nuclear transparency and the onset of strong absorption regime in the $^{12}\text{C}+^{24}\text{Mg}$ system. <i>Physical Review C</i> , 1999, 60, .	2.9	3
110	Magnetic Moment of the 1^{st} Ground State in ^{18}N Measured with a New 2 Level Mixing Nuclear Magnetic Resonance Technique. <i>Physical Review Letters</i> , 1999, 82, 497-500.	7.8	19
111	Elastic Transfer: A Nondispersive Component in the Optical Potential, and its Effect on the $^{12}\text{C}+^{24}\text{Mg}$ Elastic Scattering. <i>Physical Review Letters</i> , 1999, 82, 3972-3975.	7.8	21
112	First experiments with the FUSION detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 437, 490-500.	1.6	8
113	The masses of $^{70,71}\text{Se}$. <i>Nuclear Physics A</i> , 1998, 637, 3-14.	1.5	28
114	A simulation of the temperature distribution in the SPIRAL target. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 140, 415-425.	1.4	10
115	The equation of state for cold nuclear matter as seen in nucleus-nucleus scattering. <i>Il Nuovo Cimento A</i> , 1998, 111, 971-975.	0.2	28
116	Compound nuclear lifetimes at high excitation energies via a new statistical fluctuation method. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 430, 43-48.	4.1	1
117	Charge-exchange reaction induced by ^6He and nuclear densities. <i>Nuclear Physics A</i> , 1998, 641, 263-270.	1.5	16
118	Charge-exchange reaction with light neutron-rich beams. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1998, 24, 1547-1552.	3.6	1
119	Spectroscopy of the Unbound Nucleus ^{11}N by the $^{12}\text{C}(^{14}\text{N}, ^{15}\text{N})^{11}\text{N}$ Transfer Reaction. <i>Physical Review Letters</i> , 1998, 80, 1601-1604.	7.8	28
120	Interaction radii of proton-rich radioactive nuclei at. , 1998, , .		0
121	The magnetic and quadrupole moment of oriented nuclei measured with the 2 -LMR-NMR. , 1998, , .		0
122	The quadrupole moment of ^{18}N , measured with the Level Mixing Resonance (LMR) method. <i>Il Nuovo Cimento A</i> , 1998, 111, 727-732.	0.1	0
123	Quadrupole and magnetic moment measurements on spin-aligned projectile fragments. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1998, 7, 101-106.	0.4	0
124	Nuclear structure studies of bound and unbound states in drip-line nuclei. <i>Il Nuovo Cimento A</i> , 1998, 111, 841-846.	0.1	15
125	Atomic effects in heavy-ion elastic scattering. <i>Physical Review C</i> , 1997, 56, 2700-2706.	2.9	2
126	MASS MEASUREMENT FAR FROM STABILITY. <i>Annual Review of Nuclear and Particle Science</i> , 1997, 47, 27-66.	10.2	53

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127	Proton elastic scattering on light neutron-rich nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 9-14.	4.1	70
128	A cyclotron as a powerful tool for mass measurements of exotic nuclei. Nuclear Instruments & Methods in Physics Research B, 1997, 126, 334-339.	1.4	6
129	A new method for measuring the absolute efficiency of isotope separation on-line systems. Nuclear Instruments & Methods in Physics Research B, 1997, 126, 141-145.	1.4	13
130	Nuclear spin alignment and static moments of light projectile fragments measured with the Level Mixing Resonance (LMR) method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 393, 36-41.	4.1	26
131	Elastic scattering and charge exchange reaction with light neutron rich exotic beams. Nuclear Physics A, 1997, 616, 215-222.	1.5	16
132	Mass measurements near N=Z. Nuclear Physics A, 1997, 616, 329-340.	1.5	11
133	The $^{12}\text{C}+^{24}\text{Mg}$ elastic scattering: An example of anomalous transparency at coulomb barrier energies. Nuclear Physics A, 1997, 620, 91-113.	1.5	29
134	Mass measurements far from stability around the N=Z line ($^{100}\text{Sn}, ^{100}\text{In}, ^{100}\text{Cd}$). Acta Physica Hungarica A Heavy Ion Physics, 1997, 6, 157-168.	0.4	2
135	Model-unrestricted nucleus-nucleus scattering potentials from measurement and analysis of scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 23-28.	4.1	45
136	Search for the signature of a halo structure in the $p(^6\text{He}, ^6\text{Li})n$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 371, 14-18.	4.1	36
137	Elastic scattering of ^6He and its analysis within a four-body eikonal model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 378, 45-49.	4.1	42
138	Decay patterns of target-like and projectile-like nuclei produced in $^{\text{nat}}\text{U}$ reactions at. Nuclear Physics A, 1996, 606, 538-558.	1.5	5
139	A fast position sensitive microchannel plate detector for ray-tracing of charged particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 378, 149-154.	1.6	32
140	Mass Measurement of ^{100}Sn . Physical Review Letters, 1996, 77, 2400-2403.	7.8	71
141	Orbiting features in the strongly damped binary decay of the $^{28}\text{Si}+^{16}\text{O}$ system. Physical Review C, 1996, 53, 2926-2932.	2.9	9
142	Search for double Gamow-Teller strength by heavy-ion double charge exchange. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 362, 34-38.	4.1	28
143	The high precision measurement of $^{208}\text{Pb}+^{208}\text{Pb}$ Mott scattering at energies under the Coulomb barrier: the observation of new atomic effects. Nuclear Physics A, 1995, 583, 263-267.	1.5	4
144	Radioactive ion beams at SPIRAL. Nuclear Physics A, 1995, 588, c267-c272.	1.5	16

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145	A cyclotron as a high resolution mass spectrometer for fast secondary ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 350, 235-243.	1.6	28
146	Anomalous heavy ion scattering near the Coulomb barrier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 304, 45-49.	4.1	13
147	Absolute measurement of the GANIL beam energy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 334, 301-304.	1.6	6
148	Search for color van der Waals force in $Pb^{208}+^{208}Pb$ Mott scattering. Physical Review Letters, 1993, 71, 2551-2554.	7.8	17
149	Orbiting in the algebraic scattering framework. Nuclear Physics A, 1992, 539, 487-499.	1.5	14
150	Study of the continuum in heavy ion inelastic spectra by light particle coincidence measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 258, 279-283.	4.1	15
151	Inversion potential for the $^{12}C+^{12}C$ system. Physical Review C, 1991, 44, 1152-1155.	2.9	14
152	Back-angle anomaly and coupling between seven reaction channels of $^{12}C + ^{24}Mg$ using algebraic scattering theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 243, 23-28.	4.1	21
153	Effect of ^{12}C -transfer polarization potential in the $^{24}Mg+^{16}O$ system. Physical Review C, 1989, 39, 884-890.	2.9	19
154	Structures in the excitation function of $^{24}Mg(^{16}O, ^{20}Ne)^{20}Ne$ and a nonresonant description of these structures. Physical Review C, 1989, 40, 681-684.	2.9	17
155	Total reaction cross section and forward glory for $^{12}C + ^{16}O$. Nuclear Physics A, 1989, 501, 605-620.	1.5	13
156	The pressure-dependent perturbation factor of excited ^{41}K nuclei recoiling in argon gas; Calculation and comparison. Hyperfine Interactions, 1988, 39, 313-339.	0.5	1
157	Perturbation factor calculations for nuclei slowing down in gas. Hyperfine Interactions, 1987, 36, 131-148.	0.5	2
158	The measurement of pressure-dependent perturbed angular correlations of excited ^{41}K nuclei recoiling in argon gas. Hyperfine Interactions, 1987, 36, 263-273.	0.5	1
159	Total reaction cross section determination from light heavy ion elastic scattering data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 165, 247-250.	4.1	3
160	Forward Glory Effects in the Elastic Scattering of $^{12}C+^{12}C$. Physical Review Letters, 1984, 52, 511-514.	7.8	12
161	Multistep ^{12}C -Particle-Transfer Description of Anomalous Heavy-Ion Elastic Scattering. Physical Review Letters, 1983, 51, 95-98.	7.8	15
162	Effect of the ^{12}C -transfer reaction on the elastic scattering of $^{12}C+^{24}Mg$. Physical Review C, 1982, 26, 2487-2495.	2.9	13

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163	Band structure in Rb78. Physical Review C, 1979, 19, 1301-1308.	2.9	8
164	^{16}O Induced reactions on ^{116}Sn at 64 MeV. Nuclear Physics A, 1977, 289, 187-204.	1.5	14
165	Evidence for critical angular momenta in the formation of ^{26}Al via the $^{14}\text{N} + ^{12}\text{C}$ channel. Nuclear Physics A, 1975, 238, 120-140.	1.5	34