

Yuri A Litvinov

List of Publications by Year in descending order

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Mass measurement of cooled neutron-deficient bismuth projectile fragments with time-resolved Schottky mass spectrometry at the FRS-ESR facility. Nuclear Physics A, 2005, 756, 3-38.	1.5	581
2	One-Neutron Removal Measurement Reveals O as a New Doubly Magic Nucleus. Physical Review Letters, 2009, 102, 152501.	7.8	184
3	Mass mapping of a new area of neutron-deficient suburanium nuclides. Nuclear Physics A, 2002, 697, 92-106.	1.5	160
4	Schottky mass measurements of stored and cooled neutron-deficient projectile fragments in the element range of 57Zn to 84 . Nuclear Physics A, 2000, 677, 75-99.	1.5	157
5	Direct mass measurements of short-lived $A=24$ and $Z=2$ nuclei. Physical Review Letters, 2009, 102, 152501.	7.8	156
6	Measurement of the Dipole Polarizability of the Unstable Neutron-Rich Nucleus ^{68}Ni . Physical Review Letters, 2013, 111, 242503.	7.8	155
7	Superallowed Gamow-Teller decay of the doubly magic nucleus ^{100}Sn . Nature, 2012, 486, 341-345.	27.8	147
8	ISOLTRAP's multi-reflection time-of-flight mass separator/spectrometer. International Journal of Mass Spectrometry, 2013, 349-350, 123-133.	1.5	140
9	Nuclear structure studies of short-lived neutron-rich nuclei with the novel large-scale isochronous mass spectrometry at the FRS-ESR facility. Nuclear Physics A, 2008, 812, 1-12.	1.5	132
10	Observation of Two-Proton Radioactivity of ^{19}Mg by Tracking the Decay Products. Physical Review Letters, 2007, 99, 182501.	7.8	129
11	Discovery and cross-section measurement of neutron-rich isotopes in the element range from neodymium to platinum with the FRS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 371-375.	4.1	126
12	Beta decay of highly charged ions. Reports on Progress in Physics, 2011, 74, 016301.	20.1	110
13	Observation of non-exponential orbital electron capture decays of hydrogen-like ^{140}Pr and ^{142}Pm ions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 664, 162-168.	4.1	108
14	Storage ring at HIE-ISOLDE. European Physical Journal: Special Topics, 2012, 207, 1-117.	2.6	101
15	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	2.6	101
16	Direct mass measurement of bare short-lived ^{44}V , ^{48}Mn , ^{41}Ti and ^{45}Cr ions with isochronous mass spectrometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 27-33.	4.1	99
17	Orbital Electron-Capture Decay Rates in Fully Ionized, Hydrogenlike, and Heliumlike ^{41}Ti and ^{45}Cr Ions. Physical Review Letters, 2007, 99, 182501.	7.8	97
18	Mass Measurements of the Neutron-Deficient ^{41}Ti and ^{45}Cr Ions. Physical Review Letters, 2007, 99, 182501.	7.8	94

#	ARTICLE	IF	CITATIONS
19	The electron ϵ -ion scattering experiment ELISE at the International Facility for Antiproton and Ion Research (FAIR) ϵ A conceptual design study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, 60-76.	1.6	85
20	Isochronous Mass Measurements of Hot Exotic Nuclei. Hyperfine Interactions, 2001, 132, 289-295.	0.5	84
21	Precision isochronous mass measurements at the storage ring CSRe in Lanzhou. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 213-218.	1.6	82
22	High precision hyperfine measurements in Bismuth challenge bound-state strong-field QED. Nature Communications, 2017, 8, 15484.	12.8	82
23	Application of the relativistic mean-field mass model to the \langle math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle mml:mrow> \langle mml:mi>r</mml:mi></mml:mrow></mml:math>-process and the influence of mass uncertainties. Physical Review C, 2008, 78, .	2.9	77
24	A fast and sensitive resonant Schottky pick-up for heavy ion storage rings. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 69-77.	1.6	77
25	MATS and LaSpec: High-precision experiments using ion traps and lasers at FAIR. European Physical Journal: Special Topics, 2010, 183, 1-123.	2.6	76
26	Nuclear physics with unstable ions at storage rings. Progress in Particle and Nuclear Physics, 2013, 73, 84-140.	14.4	76
27	Observation of a dramatic hindrance of the nuclear decay of isomeric states for fully ionized atoms. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 573, 80-85.	4.1	74
28	Proton Distribution Radii of \langle math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle mml:mrow> \langle mml:mmultiscripts><mml:mrow><mml:mi>C</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:mn><mml:mo>\epsilon</mml:mo><mml:mn>19</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>Xiaohua Ni, Nucl. Phys. A, 2016, 501, 102-101	7.8	74
29	Proton Distribution Radii of \langle math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle mml:mrow> \langle mml:mmultiscripts><mml:mrow><mml:mi>Mg</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>19</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and \langle math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle mml:mrow> \langle mml:mmultiscripts><mml:mi>mathvariant="normal">Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>16</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>Xiaohua Ni, Nucl. Phys. A, 2016, 501, 102-101	2.9	71
30	Simultaneous Measurement of β ϵ Decay to Bound and Continuum Electron States. Physical Review Letters, 2005, 95, 052501.	7.8	68
31	Discovery of Highly Excited Long-Lived Isomers in Neutron-Rich Hafnium and Tantalum Isotopes through Direct Mass Measurements. Physical Review Letters, 2010, 105, 172501.	7.8	68
32	Precision experiments with time-resolved Schottky mass spectrometry. Nuclear Physics A, 2004, 734, 473-476.	1.5	67
33	Nuclear-matter density distribution in the neutron-rich nuclei $^{12,14}\text{Be}$ from proton elastic scattering in inverse kinematics. Nuclear Physics A, 2012, 875, 8-28.	1.5	66
34	Precision Mass Measurements of \langle math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle mml:mrow> \langle mml:mmultiscripts><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>129</mml:mn><mml:mo>\epsilon</mml:mo><mml:mn>131</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>Their Impact on Stellar Nucleosynthesis via the Rapid Neutron Capture Process. Physical Review Letters, 2015, 115, 232501.	7.8	66
35	MASS MEASUREMENT OF ^{45}Cr AND ITS IMPACT ON THE Ca-Sc CYCLE IN X-RAY BURSTS. Astrophysical Journal Letters, 2013, 766, L8.	8.3	65
36	New results on mass measurements of stored neutron-rich nuclides in the element range from Pt to U with the FRS-ESR facility at. Nuclear Physics A, 2012, 882, 71-89.	1.5	64

#	ARTICLE	IF	CITATIONS
37	Discovery and investigation of heavy neutron-rich isotopes with time-resolved Schottky spectrometry in the element range from thallium to actinium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 691, 234-237.	4.1	61
38	Nuclear physics experiments with ion storage rings. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 603-616.	1.4	60
39	Long-lived isomers in neutron-rich nuclei. Physical Review Letters, 2012, 109, 112501. $B^{12}Z^{17} \approx 72$	2.9	59
40	Long-lived isomers in neutron-rich nuclei. Physical Review C, 2012, 86, .	2.9	57
41	New results with stored exotic nuclei at relativistic energies. Nuclear Physics A, 2004, 746, 150-155.	1.5	56
42	The ILIMA project at FAIR. International Journal of Mass Spectrometry, 2013, 349-350, 247-254.	1.5	56
43	Precision experiments with relativistic exotic nuclei at GSI. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1779-S1783.	3.6	55
44	Schottky Mass Measurement of the Hg^{208} Isotope: Implication for the Proton-Neutron Interaction Strength around Doubly Magic Pb^{208} . Physical Review Letters, 2009, 102, 122503.	7.8	55
45	Direct measurement of the 4.6 MeV isomer in stored bare ^{133}Sb ions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 294-297.	4.1	55
46	A new experimental approach for isochronous mass measurements of short-lived exotic nuclei with the FRS-ESR facility. Hyperfine Interactions, 2006, 173, 49-54.	0.5	53
47	Exploring the anomaly in the interaction cross section and matter radius of ^{23}O . Physical Review C, 2011, 84, .	2.9	52
48	Experiments with stored exotic nuclei at relativistic energies. International Journal of Mass Spectrometry, 2006, 251, 212-219.	1.5	51
49	High-resolution measurement of the time-modulated orbital electron capture and of the $^{142}Pm^{60+}$ decay of hydrogen-like $^{142}Pm^{60+}$ ions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 726, 638-645.	1.4	51
50	Measurements of neutron-induced reactions in inverse kinematics. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	50
51	Heavy-ion storage rings and their use in precision experiments with highly charged ions. Progress in Particle and Nuclear Physics, 2020, 115, 103811.	14.4	50
52	Charge and frequency resolved isochronous mass spectrometry and the mass of ^{51}Co . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 327-331.	4.1	49
53	Accuracy of theoretical descriptions of nuclear masses. Physical Review C, 2014, 89, .	2.9	49
54	First measurement of the $Ru^{96}Rh^{97}$ cross sec. Physic	2.9	49

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55	Isospin Dependence in the Odd-Even Staggering of Nuclear Binding Energies. Physical Review Letters, 2005, 95, 042501.	7.8	48
56	SPARC collaboration: new strategy for storage ring physics at FAIR. Hyperfine Interactions, 2014, 227, 45-53.	0.5	47
57	First Measurement of Several N^2 -Delayed Neutron Emitting Isotopes Beyond $N=126$. Physical Review Letters, 2016, 117, 012501.	7.8	47
58	Dynamic high energy density plasma environments at the National Ignition Facility for nuclear science research. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 033003.	3.6	47
59	Orbital electron capture decay of hydrogen- and helium-like ^{142}Pm ions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 679, 36-40.	4.1	46
60	Observation of the hyperfine transition in lithium-like bismuth ^{209}Bi . Physical Review Letters, 2014, 90, .	2.5	45
61	Towards a test of QED in strong magnetic fields. Physical Review A, 2014, 90, . Spectroscopy of proton-unbound nuclei by tracking their decay products in-flight: One- and two-proton decays of ^{15}F , ^{16}Ne , and ^{19}Na . Physical Review C, 2010, 82, .	2.9	43
62	Accurate mass measurements of exotic nuclei with the CSRe in Lanzhou. International Journal of Mass Spectrometry, 2013, 349-350, 162-171.	1.5	42
63	Discovery of a new long-lived isomeric state in ^{125}Ce . European Physical Journal A, 2007, 31, 393-394.	2.5	41
64	Dominant Secondary Nuclear Photoexcitation with the X-Ray Free-Electron Laser. Physical Review Letters, 2014, 112, .	7.8	41
65	APPA at FAIR: From fundamental to applied research. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 680-685.	1.4	41
66	Storage ring mass spectrometry for nuclear structure and astrophysics research. Physica Scripta, 2016, 91, 073002.	2.5	41
67	First Glimpse of the $N=82$ Shell Closure below $Z=50$ from Masses of Neutron-Rich Cadmium Isotopes and Isomers. Physical Review Letters, 2020, 124, 092502.	7.8	41
68	Energy and range focusing of in-flight separated exotic nuclei – A study for the energy-buncher stage of the low-energy branch of the Super-FRS. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 119-123.	1.4	39
69	Present and future experiments with stored exotic nuclei at the FRS-ESR facility. European Physical Journal: Special Topics, 2007, 150, 109-115.	2.6	39
70	Orbital electron capture decay of hydrogen- and helium-like ions. Physical Review C, 2008, 77, .	2.9	38
71	Approaching the Gamow Window with Stored Ions: Direct Measurement of $^{124}\text{Xe}(p, \text{p}^3)$ in the ESR Storage Ring. Physical Review Letters, 2019, 122, 092701.	7.8	38
72	Observation of narrow states in nuclei beyond the proton drip line: ^{15}F and ^{16}Ne . Physical Review Letters, 2016, 117, 012501.	2.9	37

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73	<p>Structure of ^{33}Mg sheds new light on the isochronous mass measurements of ^{30}Ar and ^{30}K.</p> <p>Physical Review C, 2018, 98, .</p>	7.8	37
74	<p>Structure of ^{33}Mg sheds new light on the isochronous mass measurements of ^{30}Ar and ^{30}K.</p> <p>Physical Review C, 2018, 98, .</p>	2.9	37
75	<p>Structure of ^{33}Mg sheds new light on the isochronous mass measurements of ^{30}Ar and ^{30}K.</p> <p>Physical Review C, 2018, 98, .</p>	4.1	36
76	<p>High-resolution $\hat{\Gamma}^3$-ray spectroscopy: a versatile tool for nuclear $\hat{\Gamma}^2$-decay studies at TRIUMF-ISAC. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1491-S1498.</p>	3.6	35
77	<p>Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies. Hyperfine Interactions, 2010, 196, 115-127.</p>	0.5	35
78	<p>First Observation of the Unbound Nucleus ^{15}Ne.</p> <p>Physical Review Letters, 2014, 112, 132502.</p>	7.8	35
79	<p>New results from isochronous mass measurements of neutron-rich uranium fission fragments with the FRS-ESR-facility at GSI. European Physical Journal A, 2016, 52, 1.</p>	2.5	35
80	<p>High-precision QEC values of superallowed $0^+ \hat{\Gamma}^1$ $0^+ \hat{\Gamma}^2$-emitters ^{46}Cr, ^{50}Fe and ^{54}Ni. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 20-24.</p>	4.1	35
81	<p>Isobaric Analog State in ^{34}Mg.</p> <p>Physical Review Letters, 2016, 117, 182503.</p>	7.8	34
82	<p>$^{96}\text{Ru}(p, \hat{\Gamma}^3)^{97}\text{Rh}$ measurement at the GSI storage ring. Journal of Physics: Conference Series, 2010, 202, 012011.</p>	0.4	33
83	<p>Time-of-flight detectors with improved timing performance for isochronous mass measurements at the CSRe. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 756, 1-5.</p>	1.6	33
84	<p>Halo structure of ^{8}B determined from intermediate energy proton elastic scattering in inverse kinematics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 200-204.</p>	4.1	33
85	<p>Matter radii of ^{32}Ar and ^{35}Ar.</p> <p>Physical Review C, 2011, 83, .</p>	2.9	32
86	<p>Schottky mass measurements of heavy neutron-rich nuclides in the element range ^{70}Zr to ^{110}Zr at the GSI Experimental Storage Ring. Physical Review C, 2013, 88, .</p>	2.9	32
87	<p>Masses of exotic nuclei. Progress in Particle and Nuclear Physics, 2021, 120, 103882.</p>	14.4	31
88	<p>First feasibility experiment for the EXL project with prototype detectors at the ESR storage ring. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 634, 77-84.</p>	1.6	30
89	<p>Mass and lifetime measurements at the experimental storage ring of GSI. International Journal of Mass Spectrometry, 2013, 349-350, 151-161.</p>	1.5	30
90	<p>Hyperfine-induced effects on the linear polarization of ^{30}K from heliumlike ions. Physical Review A, 2013, 87, .</p>	2.5	30

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91	Nuclear-matter radius studies from $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ni} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 58 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \hat{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle , \langle \text{mml:mi} \rangle \hat{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 2017 \langle \text{mml:mn} \rangle 96 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{experiments at the GSI Experimental Storage Ring with the EXL facility. Physical Review C, 2017, 96, .$	2.9	30
92	Observation of Coherence in the Time-Reversed Relativistic Photoelectric Effect. Physical Review Letters, 2014, 113, 113001.	7.8	28
93	Mass measurements of neutron-deficient Y, Zr, and Nb isotopes and their impact on rp and $\hat{1}/2p$ nucleosynthesis processes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 358-363.	4.1	28
94	Nuclear-matter distribution in the proton-rich nuclei 7Be and 8B from intermediate energy proton elastic scattering in inverse kinematics. Nuclear Physics A, 2019, 989, 40-58.	1.5	28
95	Spallation-based neutron target for direct studies of neutron-induced reactions in inverse kinematics. Physical Review Accelerators and Beams, 2017, 20, .	1.6	28
96	Half-life measurements of stored fully ionized and hydrogen-like ^{122}I ions. European Physical Journal A, 2012, 48, 1.	2.5	27
97	Detailed illustration of the accuracy of currently used nuclear-mass models. Atomic Data and Nuclear Data Tables, 2018, 119, 1-32.	2.4	27
98	Isotope shifts in dielectronic recombination: From stable to in-flight-produced nuclei. Journal of Physics: Conference Series, 2009, 194, 012023.	0.4	26
99	Predictive power of nuclear-mass models. Physical Review C, 2014, 90, .	2.9	26
100	Direct mass measurements of neutron-deficient ^{152}Sm projectile fragments at the FRS-ESR facility. Hyperfine Interactions, 2006, 173, 55-60.	0.5	25
101	Isobar separation at FRS-ESR " a development towards pure isomeric stored beams. Hyperfine Interactions, 2006, 173, 61-66.	0.5	25
102	Collective degrees of freedom of neutron-rich A and the first mass measurement of the short-lived nuclide ^{100}Zr . Physical Review Letters, 2013, 110, 122502.	2.9	25
103	Direct Observation of Long-Lived Isomers in ^{100}Zr . Physical Review C, 2013, 88, .	7.8	25
104	Radiative-electron-capture-to-continuum cusp in $\text{U}88^{++}\text{N}_2$ collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. Physical Review A, 2014, 90, .	2.5	25
105	Toward precision mass measurements of neutron-rich nuclei relevant to r-process nucleosynthesis. Frontiers of Physics, 2015, 10, 1-25.	5.0	25
106	Schottky Mass Measurements of Cooled Exotic Nuclei. Hyperfine Interactions, 2001, 132, 281-287.	0.5	24
107	Orbital electron capture of hydrogen- and helium-like ions. Physical Review C, 2011, 84, .	2.9	24
108	SPARC: The Stored Particle Atomic Research Collaboration At FAIR. AIP Conference Proceedings, 2011, , .	0.4	24

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109	Proton radius of ^{14}Be from measurement of charge-changing cross sections. Progress of Theoretical and Experimental Physics, 2014, 2014, 101D02-101D02.	6.6	24
110	An improved value for the hyperfine splitting of hydrogen-like $^{209}\text{Bi}^{82+}$. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144022.	1.5	24
111	$\hat{\Gamma}_{\pm}$ -decay half-lives for neutral atoms and bare nuclei. Physical Review C, 2008, 78, .	2.9	23
112	Probing nuclear properties by resonant atomic collisions between electrons and ions. Physica Scripta, 2013, T156, 014050.	2.5	23
113	First observation of the ground-state hyperfine transition in $^{209}\text{Bi}^{80+}$. Physica Scripta, 2013, T156, 014016.	2.5	23
114	Neutron skin and signature of the $N = 14$ shell gap found from measured proton radii of $^{17}\text{A} \sim ^{22}\text{N}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 251-256.	4.1	23
115	Online test of the FRS Ion Catcher at GSI. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4493-4497.	1.4	22
116	MASS AND LIFETIME MEASUREMENTS AT THE PRESENT ESR FACILITY. International Journal of Modern Physics E, 2009, 18, 323-334.	1.0	22
117	Precise measurement of nuclear isomers in the storage ring at GSI. Nuclear Physics A, 2010, 834, 476c-478c.	1.5	22
118	r-Process nucleosynthesis: Present status and future experiments at the FRS and ESR. Progress in Particle and Nuclear Physics, 2011, 66, 358-362.	14.4	22
119	Origin of odd-even staggering in fragment yields: Impact of nuclear pairing and shell structure on the particle-emission threshold energy. Physical Review C, 2014, 89, .	2.9	22
120	decay half-lives and $\hat{\Gamma}_{\pm}$ Physical Review C, 2017, 95, .	2.9	22
121	delayed neutron emission probabilities for several isotopes of Au, Hg, Tl, Pb, and Bi, beyond $N=126$. Physical Review C, 2017, 95, .	2.9	22
122	Roadmap on photonic, electronic and atomic collision physics: III. Heavy particles: with zero to relativistic speeds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171003.	1.5	22
123	Masses of neutron-rich ^{231}Fr and ^{232}Fr . Physical Review C, 2017, 95, .	2.9	22
124	Progress in mass measurements of stored exotic nuclei at relativistic energies. Nuclear Physics A, 2001, 685, 115-126.	1.5	21
125	Population of high-spin isomeric states following fragmentation of ^{238}U . Physical Review C, 2013, 88, .	2.9	21
126	A timing detector with pulsed high-voltage power supply for mass measurements at CSRe. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 755, 38-43.	1.6	21

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127	Mass measurements of ^{99}In challenge ab initio nuclear theory of the nuclide ^{100}Sn . Nature Physics, 2021, 17, 1099-1103.	16.7	21
128	Expanding Nuclear Physics Horizons with the Gamma Factory. Annalen Der Physik, 2022, 534, .	2.4	21
129	Energy-loss straggling of (200-1000) MeV/u uranium ions. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 1-7.	1.4	20
130	Mass and Half-life Measurements of Stored Exotic Nuclei at the FRS-ESR Facility. Nuclear Physics A, 2008, 805, 260c-269c.	1.5	20
131	LARGE-SCALE MASS MEASUREMENTS OF SHORT-LIVED NUCLIDES WITH THE ISOCHRONOUS MASS SPECTROMETRY AT GSI. International Journal of Modern Physics E, 2009, 18, 346-351.	1.0	20
132	Crystal optics for precision x-ray spectroscopy on highly charged ions- conception and proof. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144010.	1.5	20
133	Direct mass measurements of neutron-rich ^{86}Kr projectile fragments and the persistence of neutron magic number $Z=32$ in Sc isotopes. Chinese Physics C, 2015, 39, 104001.	3.7	20
134	Electron-capture-to-continuum cusp in U . Physical Review A, 2015, 91, .	2.5	20
135	First measurement of isoscalar giant resonances in a stored-beam experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 16-19.	4.1	20
136	Scientific program of DERICA- prospective accelerator and storage ring facility for radioactive ion beam research. Physics-Usp ekhi, 2019, 62, 675-690.	2.2	20
137	Mass and lifetime measurements at the storage ring ESR. Nuclear Physics A, 2002, 701, 561-564.	1.5	19
138	An improvement of isochronous mass spectrometry: Velocity measurements using two time-of-flight detectors. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 311-315.	1.4	19
139	Present and Future Experiments with Stored Exotic Nuclei at Relativistic Energies. AIP Conference Proceedings, 2006, , .	0.4	18
140	Gas-solid difference in charge-changing cross sections for bare and H-like nickel ions at 200MeV/u . Physical Review A, 2007, 75, .	2.5	18
141	FIRST FEASIBILITY STUDY FOR EXL WITH PROTOTYPE DETECTORS AT THE ESR AND DETECTOR SIMULATIONS. International Journal of Modern Physics E, 2009, 18, 524-530.	1.0	18
142	Energy loss and cooling of relativistic highly charged uranium ions interacting with an internal hydrogen droplet target beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 656, 1-4.	1.6	18
143	^{59}Fe Ti FTOf 1.10.784314 rgBf	7.8	18
144	First isochronous mass measurements with two time-of-flight detectors at CSRe. Physica Scripta, 2015, T166, 014010.	2.5	18

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145	Isotopes of ground and isomeric states of ^{101}In and configuration-dependent shell evolution in odd- Z indium isotopes. <i>Physical Review C</i> , 2019, 100, .	2.9	18
146	SPARC experiments at the high-energy storage ring. <i>Physica Scripta</i> , 2013, T156, 014085.	2.5	17
147	Electron-loss-to-continuum cusp in $\text{U}^{88+} + \text{N}_2$ collisions. <i>Physical Review A</i> , 2014, 90, .	2.5	17
148	First EXL experiment with stored radioactive beam: Proton scattering on ^{56}Ni . <i>EPJ Web of Conferences</i> , 2014, 66, 03093.	0.3	17
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