

Dmitry Fyodorov

List of Publications by Year in descending order

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138
papers

3,338
citations

117625

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175258

52
g-index

140
all docs

140
docs citations

140
times ranked

1438
citing authors

#	ARTICLE	IF	CITATIONS
1	Decay modes of the α - mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>9</mml:mn><mml:mo>/</mml:mo><mml:msup><mml:mml:math> isomeric state in mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Tl</mml:mi><mml:mprescripts </><mml:none /><mml:mn>183</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2022, 105,	2.9	1
2	Pph3 Phosphatase Participates in the Regulation of the Error-Free Branch of Postreplication DNA Repair in Yeast <i>Saccharomyces cerevisiae</i> . Russian Journal of Genetics, 2021, 57, 152-160.	0.6	1
3	Laser-assisted nuclear decay spectroscopy of mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Au</mml:mi><mml:mprescripts </><mml:none Laser Spectroscopy of Neutron-Rich mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML",</mml:mo><mml:mn>179</mml:mn> mml:math </><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Hg</mml:mi></mml:mrow><mml:mprescripts </><mml:mrow><mml:mn>207</mml:mn></mml:mrow></mml:mo>,</mml:mo><mml:mn>208</mml:mn></mml:mrow></mml:mmultiscripts> </mml:mrow></mml:math> Isotopes: Illuminating the Kink and Odd-Even Staggering in Charge Radii across the mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mm. Physica	2.9	7
4	Large Shape Staggering in Neutron-Deficient Bi Isotopes. Physical Review Letters, 2021, 127, 192501.	7.8	27
5	New \hat{I}^2 -decaying state in Bi214. Physical Review C, 2021, 104, .	2.9	1
6	Charge radii, moments, and masses of mercury isotopes across the mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>126</mml:mn></mml:mrow> shell closure. Physical Review C, 2021, 104, .	2.9	1
7	Laser-assisted decay spectroscopy for the ground states of mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Au</mml:mi><mml:mprescripts </><mml:none </><mml:mrow><mml:mn>180</mml:mn></mml:mrow>,</mml:mo><mml:mn>182</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow> Physical Review C, 2020, 102, .	2.9	10
8	\hat{I}^2 -delayed fission of isomers in Bi188. Physical Review C, 2020, 102, .	2.9	7
9	Detailed spectroscopy of doubly magic mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts </><mml:none /><mml:mn>132</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2020, 102,	2.9	10
10	Laser-assisted decay spectroscopy and mass spectrometry of mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Au</mml:mi><mml:mprescripts </><mml:none /><mml:mn>178</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2020, 102,	2.9	8
11	Hyperfine anomaly in gold and magnetic moments of mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mi>I</mml:mi></mml:mi><mml:mi>I</mml:mi></mml:mrow> gold isomers. Physical Review C, 2020, 101, .	2.9	24
12	α -decay branching ratio of mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pt</mml:mi><mml:mprescripts </><mml:none /><mml:mn>180</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2020, 101,	2.9	2
13	Measurement and microscopic description of odd-even staggering of charge radii of exotic copper isotopes. Nature Physics, 2020, 16, 620-624.	16.7	76
14	Fine structure in the \hat{I}^{\pm} decay of At218. Physical Review C, 2019, 99, .	2.9	5
15	Inverse odd-even staggering in nuclear charge radii and possible octupole collectivity in At217,218,219 revealed by in-source laser spectroscopy. Physical Review C, 2019, 99, .	2.9	13
16	Shape staggering of midshell mercury isotopes from in-source laser spectroscopy compared with density-functional-theory and Monte Carlo shell-model calculations. Physical Review C, 2019, 99, .	2.9	43
17	\hat{I}^2 decay of In133 : \hat{I}^3 emission from neutron-unbound states in Sn133. Physical Review C, 2019, 99, .	2.9	9

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19	Shell effect in the mean square charge radii and magnetic moments of bismuth isotopes near N=126. Physical Review C, 2018, 97, .	2.9	15
20	Laser-spectroscopy studies of the nuclear structure of neutron-rich radium. Physical Review C, 2018, 97, .	2.9	21
21	Target development for ^{67}Dj , ^{82}Sr radionuclide production at the RIC-80 facility. Physics of Particles and Nuclei, 2018, 49, 75-77.	0.7	0
22	decay study of the ^{111}Mn β^+ decay. Physical Review C, 2018, 97, .	2.9	11
23	A New Method for Production of the Sr-82 Generator Radionuclide and Other Medical Radionuclides. Technical Physics, 2018, 63, 1254-1261.	0.7	0
24	Characterization of the shape-staggering effect in mercury nuclei. Nature Physics, 2018, 14, 1163-1167.	16.7	106
25	Charge radii and electromagnetic moments of ^{195}Au and ^{211}Po . Physical Review C, 2018, 97, .	2.9	35
26	The identification of autoionizing states of atomic chromium for the resonance ionization laser ion source of the ISOLDE radioactive ion beam facility. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 129, 58-63.	2.9	7
27	Changes in mean-squared charge radii and magnetic moments of ^{179}Tl and ^{184}Tl measured by in-source laser spectroscopy. Physical Review C, 2017, 95, .	2.9	23
28	Shape coexistence studied in $^{182,184}\text{Hg}$ via the β^+ decay of $^{182,184}\text{Tl}$. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 074001.	3.6	13
29	Spectroscopy of the long-lived excited state in the neutron-deficient nuclides ^{195}Po and ^{197}Po . Physical Review C, 2017, 96, .	2.9	15
30	Dipole and quadrupole moments of ^{73}Cu and ^{78}Cu as a test of the robustness of the ^{28}Z Penning-trap mass spectrometry and mean-field study of nuclear shape coexistence in the neutron-deficient lead region. Physical Review C, 2017, 95, .	2.9	41
31	Detailed ^{180}Tl β^+ -decay study of ^{180}Tl . Physical Review C, 2017, 96, .	2.9	4
32	Shape evolution for neutron-deficient bismuth isotopes studied by resonance laser ionization spectroscopy. Physics of Particles and Nuclei, 2017, 48, 914-916.	0.7	2
33	RILIS-ionized mercury and tellurium beams at ISOLDE CERN. Hyperfine Interactions, 2017, 238, 1.	0.5	11
34	Onset of deformation in neutron-deficient Bi isotopes studied by laser spectroscopy. Physical Review C, 2017, 95, .	2.9	13
35	The role of remodeling complexes CHD1 and ISWI in spontaneous and UV-induced mutagenesis control in yeast <i>Saccharomyces cerevisiae</i> . Russian Journal of Genetics, 2017, 53, 195-201.	0.6	2

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37	\hat{I}^{\pm} -decay study of $\text{Tl}^{182,184}$. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 025102.	3.6	10
38	Changes in nuclear structure along the Mn isotopic chain studied via charge radii. Physical Review C, 2016, 94, .	2.9	23
39	First results on Ge resonant laser photoionization in hollow cathode lamp. Review of Scientific Instruments, 2016, 87, 02B708.	1.3	7
40	\hat{I}^{\pm} -delayed fission and \hat{I}^{\pm} -decay of At	2.9	10
41	Quadrupole moments of odd-A $^{53a}63\text{Mn}$: Onset of collectivity towards $N = 40$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 387-392.	4.1	21
42	Laser spectroscopy studies of intruder states in ^{193}Bi and ^{195}Bi	2.9	17
43	ToF diagnostic of Tin resonant laser photoionization in SPES laser offline laboratory. Journal of Instrumentation, 2016, 11, C09001-C09001.	1.2	4
44	Laser resonance ionization scheme development for tellurium and germanium at the dual Ti:Sa "Dye ISOLDE RILIS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 510-514.	1.6	9
45	Laser ion beam production at CERN-ISOLDE: New features " More possibilities. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 91-96.	1.4	38
46	Blurring the boundaries between ion sources: The application of the RILIS inside a FEBIAD type ion source at ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 39-45.	1.4	22
47	^{192}Pb states from ^{190}Pb internal decay of the ^{198}Pb \hat{I}^{\pm} -decay studies	2.9	7
48	Direct Study of the Ground-State Properties of ^{184}Po	8.9	18
49	Changes in the mean square charge radii and electromagnetic moments of neutron-deficient Bi isotopes. AIP Conference Proceedings, 2015, , .	0.4	0
50	The radioisotope complex project "RIC-80" at the Petersburg Nuclear Physics Institute. Review of Scientific Instruments, 2015, 86, 123510.	1.3	6
51	Characterization of the low-lying ^{200}Po and ^{202}Po states in ^{200}Po	2.9	42
52	Evolution of the ^{193}Po \hat{I}^{\pm} -decay studies	2.9	51
53	Evolution of fission-fragment mass distributions in the neutron-deficient lead region. Physical Review C, 2014, 90, .	2.9	39

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55	RILIS applications at CERN/ISOLDE. <i>Hyperfine Interactions</i> , 2014, 227, 101-111.	0.5	10
56	Measurement of the first ionization potential of astatine by laser ionization spectroscopy. <i>Nature Communications</i> , 2013, 4, 1835.	12.8	89
57	Charge radii of odd-A ^{191}Po isotopes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 362-366.	4.1	64
58	Decay of ^{185}Tl , $^{185\text{m}}\text{gHg}$, $^{189\text{m}}\text{gPb}$ and energy location of the $13/2^+$ isomeric states in ^{185}Hg , ^{189}Pb , ^{193}Po and ^{197}Rn . <i>European Physical Journal A</i> , 2013, 49, 1.	2.5	8
59	First application of the Laser Ion Source and Trap (LIST) for on-line experiments at ISOLDE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 317, 417-421.	1.4	22
60	New developments of the in-source spectroscopy method at RILIS/ISOLDE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 317, 550-556	1.4	47
61	^{179}Tl β -decay spectroscopy of the chain	2.9	13
62	The Miniball spectrometer. <i>European Physical Journal A</i> , 2013, 49, 1.	2.5	126
63	New laser setup at the IRIS facility. Magnetic moments and mean squared charge radii of neutron deficient Tl isotopes. <i>Hyperfine Interactions</i> , 2013, 216, 27-31.	0.5	1
64	^{179}Tl β -delayed fission and	2.9	24
65	^{179}Tl β -delayed fission of	2.9	41
66	^{61}Mn to levels in	2.9	13
67	Changes in the mean-square charge radii and magnetic moments of neutron-deficient Tl isotopes. <i>Physical Review C</i> , 2013, 88, .	2.9	39
68	^{215}Po β -decay of the neutron-rich isotope ^{215}Pb . <i>Physical Review C</i> , 2013, 87, .	2.9	8
69	Upgrade of the resonance ionization laser ion source at ISOLDE on-line isotope separation facility: New lasers and new ion beams. <i>Review of Scientific Instruments</i> , 2012, 83, 02A903.	1.3	83
70	New laser setup for the selective isotope production and investigation in a laser ion source at the IRIS (Investigation of Radioactive Isotopes on Synchrocyclotron) facility. <i>Review of Scientific Instruments</i> , 2012, 83, 02B306.	1.3	17
71	^{64}Ni levels in the decay of	2.9	7
72	Hyperfine structure anomaly and magnetic moments of neutron deficient Tl isomers with	2.9	39

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73	Early onset of deformation in the neutron-deficient polonium isotopes. Journal of Physics: Conference Series, 2012, 381, 012072.	0.4	3
74	New laser setup at the IRIS facility. Magnetic moments and mean squared charge radii of neutron deficient Tl isotopes. , 2012, , 27-31.		0
75	Secondary neutrons as the main source of neutron-rich fission products in the bombardment of a thick U target by 1 GeV protons. European Physical Journal A, 2011, 47, 1.	2.5	6
76	Early Onset of Ground State Deformation in Neutron Deficient Polonium Isotopes. Physical Review Letters, 2011, 106, 052503.	7.8	94
77	Coulomb excitation of the ${}^{3\lambda}\text{Cu}$ isomer in ${}^{70}\text{Cu}$. Shape coexistence in ${}^{180}\text{Hg}$ studied through the ${}^{180}\text{Tl}$ decay of ${}^{180}\text{Tl}$. Physical Review C, 2011, 84, .	2.9	11
78	Shape coexistence in ${}^{180}\text{Hg}$ studied through the ${}^{180}\text{Tl}$ decay of ${}^{180}\text{Tl}$. Physical Review C, 2011, 84, .	2.9	46
79	The ISOLDE RILIS pump laser upgrade and the LARIS Laboratory. Hyperfine Interactions, 2010, 196, 129-141.	0.5	37
80	Coulomb excitation of ${}^{73}\text{Ga}$. Physical Review C, 2010, 82, .	2.9	17
81	Structure of ${}^{191}\text{Pb}$ from ${}^{1\pm}$ and ${}^{2-}$ decay spectroscopy. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 125103.	3.6	20
82	New Type of Asymmetric Fission in Proton-Rich Nuclei. Physical Review Letters, 2010, 105, 252502.	7.8	197
83	${}^{77}\text{Cu}$ -decay study of ${}^{77}\text{Cu}$. Physical Review C, 2009, 80, .	2.9	16
84	Low-energy Coulomb excitation of neutron-rich zinc isotopes. Physical Review C, 2009, 79, .	2.9	58
85	Nuclear structure of ${}^{189}\text{Tl}$ states studied via ${}^{\eta^{++}}_{\text{EC}}$ decay and laser spectroscopy of ${}^{189\text{m}+g}\text{Pb}$. European Physical Journal A, 2009, 39, 33-48.	2.5	14
86	Charge radii and magnetic moments of odd- A 183-189Pb isotopes. European Physical Journal A, 2009, 41, 315-321.	2.5	60
87	Production of Cs and Fr isotopes from a high-density UC targets with different grain dimensions. European Physical Journal A, 2009, 42, 495.	2.5	19
88	Studies of uranium carbide targets of a high density. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4247-4251.	1.4	11
89	Tests of high-density UC targets developed at Gatchina for neutron-rich radioactive-beam facilities. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4326-4329.	1.4	6
90	Electron beam plasma ionizing target for the production of neutron-rich nuclides. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4294-4297.	1.4	1

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91	Coulomb excitation of ^{28}Cu and ^{68}Cu isotopes. Physical Review Letters, 2007, 98, 122701. Magnetic dipole moments of ^{28}Cu and ^{68}Cu isotopes. Physical Review Letters, 2007, 98, 122701.	2.9	35
92	Coulomb excitation of ^{58}Cu and ^{70}Cu isotopes. Physical Review Letters, 2007, 98, 122701.	2.9	36
93	Nuclear Charge Radii of Neutron-Deficient Lead Isotopes Beyond $N=104$ Investigated by In-Source Laser Spectroscopy. Physical Review Letters, 2007, 98, 112502.	7.8	80
94	Coulomb Excitation of Neutron-Rich Zn Isotopes: First Observation of the 21^+ State in ^{80}Zn . Physical Review Letters, 2007, 99, 142501.	7.8	70
95	Measurement of delayed neutron yields and time spectra from 1 GeV protons interacting with thick natPb targets. European Physical Journal A, 2007, 32, 1-4.	7.8	116
96	Recent developments and on-line tests of uranium carbide targets for production of nuclides far from stability. European Physical Journal: Special Topics, 2007, 150, 297-300.	2.5	5
97	Target-ion source unit ionization efficiency measurement by a method of stable ion beam implantation. European Physical Journal: Special Topics, 2007, 150, 301-302.	2.6	3
98	Measurements of delayed neutrons yields and time spectra from 1 GeV protons interacting with thick natPb, ^{209}Bi and natFe targets. , 2007, , .	2.6	0
99	β^2 -decay properties of ^{72}Ni and ^{72}Cu . Physical Review C, 2006, 74, .	2.6	0
100	Ionization Scheme Development at the ISOLDE RILIS. Hyperfine Interactions, 2006, 162, 15-27.	2.9	18
101	Study of the neutron deficient ^{182}Pb isotopes by simultaneous atomic- and nuclear-spectroscopy. Hyperfine Interactions, 2006, 171, 225-231.	0.5	19
102	Combined target-ion source unit for production of rare nuclides. Review of Scientific Instruments, 2006, 77, 03A705.	0.5	11
103	Absolute branching intensities in the decay of ^{92}Rb to ^{92}Sr . Physical Review C, 2006, 74, .	1.3	7
104	Development of uranium carbide targets for the on-line production of neutron-rich isotopes. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 888-894.	2.9	10
105	On-line production of Rb and Cs isotopes from uranium carbide targets. European Physical Journal A, 2005, 23, 257-264.	1.4	7
106	Integrated target-ion source unit for on-line production of radioactive short-lived isotopes. European Physical Journal A, 2005, 26, 147-150.	2.5	14
107	Integrated target-ion source unit for on-line production of radioactive short-lived isotopes. European Physical Journal A, 2005, 26, 147-150.	2.5	3

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109	Nuclear structure studies of neutron-rich Cu and Zn isotopes produced by means of proton-induced fission of ^{238}U . AIP Conference Proceedings, 2005, , .	0.4	1
110	Laser spectroscopic studies of ^{145}Gd , $^{145\text{m}}\text{Gd}$, and $^{143\text{m}}\text{Gd}$. Physical Review C, 2005, 72, .	2.9	9
111	Evolution of the nuclear structure approaching ^{78}Ni : β^2 decay of ^{74}Cu . Physical Review C, 2005, 71, .	2.9	39
112	Coupling a proton and a neutron to the semidoubly magic nucleus ^{68}Ni : A study of ^{70}Cu via the β^2 decay of ^{70}Ni and ^{70}Cu . Physical Review C, 2004, 69, .	2.9	32
113	Unambiguous Identification of Three β^2 -Decaying Isomers in ^{70}Cu . Physical Review Letters, 2004, 92, 112501.	7.8	99
114	First observation of the β^2 decay of neutron-rich ^{218}Bi by the pulsed-release technique and resonant laser ionization. Physical Review C, 2004, 69, .	2.9	24
115	High temperature electron beam ion source for on-line production of isotopes of refractory elements. Review of Scientific Instruments, 2004, 75, 1634-1636.	1.3	2
116	Enhancement of ionization efficiency of surface, electron bombardment and laser ion sources by axial magnetic field application. Review of Scientific Instruments, 2004, 75, 1585-1587.	1.3	1
117	Proton- and neutron-induced fission on uranium carbide target. European Physical Journal A, 2004, 19, 341-345.	2.5	13
118	Changes in the mean square charge radii of neutron-deficient europium isotopes measured by the laser ion source resonance ionization spectroscopy. European Physical Journal A, 2004, 22, 69-74.	2.5	8
119	Beta-decay measurements of neutron-rich thallium, lead, and bismuth by means of resonant laser ionisation. Nuclear Physics A, 2004, 734, 449-452.	1.5	2
120	Production of neutron rich nuclides from uranium carbide targets of different density. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 267-271.	1.4	12
121	On-line yields obtained with the ISOLDE RILIS. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 347-352.	1.4	56
122	Atomic spectroscopy studies of short-lived isotopes and nuclear isomer separation with the ISOLDE RILIS. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 353-358.	1.4	65
123	High temperature electron beam ion source for the production of single charge ions of most elements of the Periodic Table. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 382-386.	1.4	4
124	High temperature uranium carbide targets. , 2003, , 495-495.		1
125	β^2 -decay studies of ^{135}Sb and ^{137}Sn using selective resonance laser ionization techniques. Physical Review C, 2002, 65, .	2.9	65
126	High temperature ion sources with ion confinement. Review of Scientific Instruments, 2002, 73, 738-740.	1.3	14

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127	Measurements of charge radii and electromagnetic moments of nuclei far from stability by photoionization spectroscopy in a Laser Ion Source. AIP Conference Proceedings, 2002, , .	0.4	5
128	Production of neutron-rich isotopes by one- and two-step processes in ISOL targets. Nuclear Instruments & Methods in Physics Research B, 2002, 194, 193-206.	1.4	11
129	Selective laser ionization of $N\hat{\%}\%82$ indium isotopes: The new r-process nuclide 135In . European Physical Journal A, 2002, 13, 281-284.	2.5	29
130	Decay of $135,136\text{Sn}$ isolated by use of a laser ion source and evidence for a more harmonic-oscillator-like nuclear potential. Nuclear Physics A, 2001, 682, 493-497.	1.5	22
131	Selective high temperature refractory target $\hat{\%}$ laser ion source unit of IRIS facility. , 2000, 127, 421-424.		3
132	Application of the laser ion source for isotope shift and hyperfine structure investigation. , 2000, 127, 425-430.		8
133	Mean square charge radii of the neutron-deficient rare-earth isotopes in the region of the nuclear shell $N=82$ measured by the laser ion source spectroscopy technique. Physical Review C, 2000, 61, .	2.9	31
134	Isotope shift and hyperfine structure measurements for 155Yb by laser ion source technique. European Physical Journal A, 1998, 1, 3-5.	2.5	12
135	Application of the laser ion source for isotope shift and hyperfine structure investigations. , 1998, , .		0
136	Reduction of the thermoionic current in the laser ion source. Nuclear Instruments & Methods in Physics Research B, 1997, 126, 92-94.	1.4	3
137	A mass-separator laser ion source. Nuclear Instruments & Methods in Physics Research B, 1997, 126, 85-87.	1.4	17
138	Investigation of the release properties of MeCx targets at IRIS. Nuclear Instruments & Methods in Physics Research B, 1997, 126, 150-153.	1.4	14