Thomas Elias Cocolios

List of Publications by Year
in descending order

150	4,169	94433	144013
papers	citations	37 h-index	57 g-index

155	155	155	1735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Studies of pear-shaped nuclei using accelerated radioactive beams. Nature, 2013, 497, 199-204.	27.8	268
2	New Type of Asymmetric Fission in Proton-Rich Nuclei. Physical Review Letters, 2010, 105, 252502.	7.8	197
3	The Miniball spectrometer. European Physical Journal A, 2013, 49, 1.	2.5	126
4	Nuclear Charge Radii of Neutron-Deficient Lead Isotopes BeyondN=104Midshell Investigated by In-Source Laser Spectroscopy. Physical Review Letters, 2007, 98, 112502.	7.8	116
5	Characterization of the shape-staggering effect in mercury nuclei. Nature Physics, 2018, 14, 1163-1167.	16.7	106
6	Shape Coexistence in the Neutron-Deficient Even-Even<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Hg</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>182</mml:mn><mml:mo>â^’</mml:mo><mml:mn>188</mml:mn></mml:mrow></mml:mmultiscripts></mml: Studied via Coulomb Excitation. Physical Review Letters, 2014, 112, 162701.	7.8	96
7	Early Onset of Ground State Deformation in Neutron Deficient Polonium Isotopes. Physical Review Letters, 2011, 106, 052503.	7.8	94
8	Measurement of the first ionization potential of astatine by laser ionization spectroscopy. Nature Communications, 2013, 4, 1835.	12.8	89
9	Interplay between Single-Particle and Collective Effects in the Odd-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>Cu Isotopes beyond<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>40</mml:mn></mml:math>. Physical Review Letters, 2008, 100, 112502.	7.8	80
10	Charge radii of exotic potassium isotopes challenge nuclear theory and the magic character of Nâ€‰=â€‰32. Nature Physics, 2021, 17, 439-443.	16.7	79
11	Spectroscopy of short-lived radioactive molecules. Nature, 2020, 581, 396-400.	27.8	78
12	Measurement and microscopic description of oddâ€“even staggering of charge radii of exotic copper isotopes. Nature Physics, 2020, 16, 620-624.	16.7	76
13	Magnetic Dipole Moment ofCu57,59Measured by In-Gas-Cell Laser Spectroscopy. Physical Review Letters, 2009, 103, 102501.	7.8	72
14	Binding Energy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>79</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> : Probing the Structure of the Doubly Magic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts	7.8	70
15	Coulomb Excitation of Neutron-Rich Zn Isotopes: First Observation of the21+State inZn80. Physical Review Letters, 2007, 99, 142501.	7.8	66
16	Precision Mass Measurements of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>129</mml:mn><mml:mo>â€“</mml:mo><mml:mn>131</mml:mn></mml:mrow></mml:mmultiscripts></mm Their Impact on Stellar Nucleosynthesis via the Rapid Neutron Capture Process. Physical Review Letters, 2015, 115, 232501.	7.8	66
17	Laser spectroscopy of radioactive isotopes: Role and limitations of accurate isotope-shift calculations. Physical Review A, 2012, 86, .	2.5	65
18	Charge radii of odd-A 191â€“211Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	4.1	64

#	Article	IF	Citations
19	Collinear Resonance Ionization Spectroscopy of Neutron-Deficient Francium Isotopes. Physical Review Letters, 2013, 111, 212501.	7.8	63
20	Dual chamber laser ion source at LISOL. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2908-2917.	1.4	59
21	Shape isomerism atN=40: Discovery of a proton intruder state inCo67. Physical Review C, 2008, 78, .	2.9	58
22	Low-energy Coulomb excitation of neutron-rich zinc isotopes. Physical Review C, 2009, 79, .	2.9	58
23	Use of a Continuous Wave Laser and Pockels Cell for Sensitive High-Resolution Collinear Resonance Ionization Spectroscopy. Physical Review Letters, 2015, 115, 132501.	7.8	54
24	Structure ofCo65,67studied through theÎ²decay ofFe65,67and a deep-inelastic reaction. Physical Review C, 2009, 79, .	2.9	53
25	Electromagnetic moments of odd-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Po</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>193</mml:mn><mml:mo>â€“</mml:mo><mml:mn>203</mml:mn><mml:mo>,</mml:mo><mml:mn>211</mml:mn> Physical Review C, 2014, 89, .	2.9	51
26	New developments of the in-source spectroscopy method at RILIS/ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 550-556.	1.4	47
27	Shape coexistence in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>180</mml:mn></mml:msup></mml:math>Hg studied through the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow	2.9	46
28	Magnetic dipole moments of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Cu</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>57</mml:mn><mml:mo>,</mml:mo><mml:mn>58</mml:mn><mml:mo>,</mml:mo><mml:mn>59</mml:mn> Physical Review C, 2010, 81, .	2.9	43
29	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
30	Recent exploits of the ISOLTRAP mass spectrometer. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 492-500.	1.4	41
31	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-delayed fission of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow Dipole and quadrupole moments of <mml:math</mml:math>Tl. Physical Review C, 2013, 88, .	2.9	41
32	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cu</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>73</mml:mn><mml:mtext>â€“</mml:mtext><mml:mn>78</mml:mn></mml:mrow></mml:mmultiscripts></m as a test of the robustness of the <mml:math	2.9	41
33	First Glimpse of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>82</mml:mn></mml:math> Shell Closure below <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>50</mml:mn></mml:math> from Masses of Neutron-Rich Cadmium Isotopes and Isomers. Physical Review Letters, 2020, 124, 092502.	7.8	41
34	The Laser Ion Source Trap (LIST) coupled to a gas cell catcher. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2918-2926.	1.4	39
35	Laser spectroscopy of francium isotopes at the borders of the region of reflection asymmetry. Physical Review C, 2014, 90, .	2.9	39
36	In-gas-cell laser ionization spectroscopy in the vicinity of 100Sn: Magnetic moments and mean-square charge radii of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>50</mml:mn><mml:mtext>â€“</mml:mtext><mml:mn>54</ Ag. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 191-197.	4.1	39

#	Article	IF	Citations
37	Evolution of fission-fragment mass distributions in the neutron-deficient lead region. Physical Review C, 2014, 90, .	2.9	39
38	Laser Spectroscopy of Neutron-Rich <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Hg</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>207</mml:mn><mml:mo>,</mml:mo><mml:mn>208</mml:mn></mml:mrow></mml:mmultiscripts></mml:m 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	7.8	37
39	The Collinear Resonance Ionization Spectroscopy (CRIS) experimental setup at CERN-ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 565-569.	1.4	36
40	Charge radii and electromagnetic moments of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>At</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>195</mml:mn><mml:mo>â€“</mml:mo><mml:mn>211</mml:mn></mml:mrow></mml:mmultiscripts></mm Physical Review C, 2018, 97, .	2.9	35
41	TRIUMF resonant ionization laser ion source. Hyperfine Interactions, 2006, 171, 127-134.	0.5	34
42	Decay-Assisted Laser Spectroscopy of Neutron-Deficient Francium. Physical Review X, 2014, 4, .	8.9	34
43	Decay of the9/2â^'isomer inTl181and mass determination of low-lying states inTl181,Au177, andIr173. Physical Review C, 2009, 80, .	2.9	31
44	Resonant laser ionization of polonium at rilis-isolde for the study of ground- and isomer-state properties. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4403-4406.	1.4	29
45	Single-neutron orbits near 78 Ni: Spectroscopy of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>49</mml:mn></mml:math>isotope 79 Zn. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 298-302.	4.1	27
46	Large Shape Staggering in Neutron-Deficient Bi Isotopes. Physical Review Letters, 2021, 127, 192501.	7.8	27
47	Development and first on-line tests of the RIA gas catcher prototype. Nuclear Physics A, 2004, 746, 415-418.	1.5	25
48	The new isotope¹⁷⁹Pb and Î±-decay properties of¹⁷⁹Tl^m. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 035102.	3.6	25
49	Deformation and mixing of coexisting shapes in neutron-deficient polonium isotopes. Physical Review C, 2015, 92, .	2.9	25
50	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi></mml:mrow></mml:math>decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Pb</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>180</mml:mn><mml:mo>,</mml:mo><mml:mn>181</mml:mn></mml:mrow></mml:mmultiscripts></mml:m display="inline">C, 2009, 80, .	2.9	24
51	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow [<mml:mn>178</mml:mn></mml:mrow></mml:msup></mml:math>Tl. Physical Review C, 2013, 88, .	2.9	24
52	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>Ï€</mml:mi></mml:msup></mml:mrow></mml:math>gold isomers. Physical Review C, 2020, 101, .	2.9	24
53	Rearrangement of valence neutrons in the neutrinoless double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Xe</mml:mi><mml:mprescripts	2.9	23
54	Changes in mean-squared charge radii and magnetic moments of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Tl</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>179</mml:mn><mml:mo>â€“</mml:mo><mml:mn>184</mml:mn></mml:mrow></mml:mmultiscripts></mm measured by in-source laser spectroscopy. Physical Review C, 2017, 95, .	2.9	23

#	Article	IF	Citations
55	Isotope Shifts of Radium Monofluoride Molecules. Physical Review Letters, 2021, 127, 033001.	7.8	23
56	First application of the Laser Ion Source and Trap (LIST) for on-line experiments at ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 417-421.	1.4	22
57	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
58	Change in structure between the Iâ€¯=â€¯1/2 states in 181Tl and 177,179Au. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 355-363.	4.1	22
59	Precision measurements of the charge radii of potassium isotopes. Physical Review C, 2019, 100, .	2.9	22
60	Nuclear moments of indium isotopes reveal abrupt change at magic number 82. Nature, 2022, 607, 260-265.	27.8	22
61	Mass spectrometry and decay spectroscopy of isomers across theZ=82shell closure. Physical Review C, 2013, 88, .	2.9	21
62	Laser-spectroscopy studies of the nuclear structure of neutron-rich radium. Physical Review C, 2018, 97, .	2.9	21
63	Simulation of the relative atomic populations of elements 1â€“â‰€â€“Zâ€“â‰€89 following charge exchange tested with collinear resonance ionization spectroscopy of indium. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 153, 61-83.	2.9	21
64	Analytic response relativistic coupled-cluster theory: the first application to indium isotope shifts. New Journal of Physics, 2020, 22, 012001.	2.9	21
65	Measurement of the quadrupole moment of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Re</mml:mi><mml:mprescripts /><mml:none /><mml:mn>185</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Re</mml:mi><mml:mprescripts /><mml:none /><mml:mn>187</mml:mn></mml:mmultiscripts></mml:math> from the hyperfine structure of muonic X rays. Physical Review C, 2020, 101, .	2.9	21
66	Structure of¹⁹¹Pb from Î±- and Î²-decay spectroscopy. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 125103.	3.6	20
67	On the performance of wavelength meters: Part 1â€”consequences for medium-to-high-resolution laser spectroscopy. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	20
68	Development of the CRIS (Collinear Resonant Ionisation Spectroscopy) beam line. Journal of Physics: Conference Series, 2012, 381, 012070.	0.4	19
69	A dedicated decay-spectroscopy station for the collinear resonance ionization experiment at ISOLDE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 707, 35-39.	1.6	19
70	In-Source Laser Spectroscopy with the Laser Ion Source and Trap: First Direct Study of the Ground-State Properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Po</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>217</mml:mn><mml:mo>,</mml:mo><mml:mn>219</mml:mn></mml:mrow></mml:mmultiscripts></mml:m	8.9	18
71	Coulomb Excitation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ga</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>73</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2010, 82, .	2.9	17
72	Precise Determination of the UnperturbedB8Neutrino Spectrum. Physical Review Letters, 2012, 108, 162502.	7.8	17

#	Article	IF	Citations
73	Characterization of the LISOL laser ion source using spontaneous fission of 252Cf. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4368-4372.	1.4	16
74	Evolution of nuclear ground-state properties of neutron-deficient isotopes aroundZ=82from precision mass measurements. Physical Review C, 2014, 90, .	2.9	16
75	High-resolution laser spectroscopy with the Collinear Resonance Ionisation Spectroscopy (CRIS) experiment at CERN-ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 284-287.	1.4	16
76	Evidence for a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow></mml:math>-decaying<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:msup><mml:mn>2</mml:mn><mml:mrow><mml:mo in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ni</mml:mi><mm. Physical Revie	2.9	15
77	Laser and decay spectroscopy of the short-lived isotope <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Fr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>214</mml:mn></mml:mmultiscripts></mml:math> in the vicinity of 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</m shell closure. Physical Review C, 2016, 94, .	2.9	15
78	Spectroscopy of the long-lived excited state in the neutron-deficient nuclides <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Po</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>195</mml:mn><mml:mo>,</mml:mo><mml:mn>197</mml:mn><mml:mo>,</mml:mo><mml:mn>199</mml: by precision mass measurements. Physical Review C, 2017, 96, .	2.9	15
79	Probing the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ga</mml:mi><mml:mprescripts /><mml:mn>31</mml:mn><mml:none /></mml:mmultiscripts></mml:math> ground-state properties in the region near <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>28</mm with high-resolution laser spectroscopy. Physical Review C, 2017, 96, .	2.9	15
80	Feasibility study of in-beam polarization of fluorine. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 1571-1577.	1.6	14
81	Competition between pairing correlations and deformation from the odd-even mass staggering of francium and radium isotopes. Physical Review C, 2014, 90, .	2.9	14
82	Combined high-resolution laser spectroscopy and nuclear decay spectroscopy for the study of the low-lying states inFr206,At202, andBi198. Physical Review C, 2016, 93, .	2.9	14
83	Laser resonance ionization spectroscopy on lutetium for the MEDICIS project. Hyperfine Interactions, 2017, 238, 1.	0.5	14
84	Enhancing the extraction of laser-ionized beams from an arc discharge ion source volume. Nuclear Instruments & Methods in Physics Research B, 2018, 431, 59-66.	1.4	14
85	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-decay spectroscopy of the chain<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>179</mml:mn></mml:msup></mml:math>Tl<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mi>g</mml:mi></mml:msup><mml:msup>	2.9	13
86	Shape coexistence studied in ${}^{mathrm{182,184}}$Hg via the<i>Î²</i>decay of ${}^{mathrm{182,184}}$Tl. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 074001.	3.6	13
87	Electromagnetic properties of low-lying states in neutron-deficient Hg isotopes: Coulomb excitation of 182Hg, 184Hg, 186Hg and 188Hg. European Physical Journal A, 2019, 55, 1.	2.5	13
88	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
89	MELISSA: Laser ion source setup at CERN-MEDICIS facility. Blueprint. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 460-463.	1.4	13
90	Optimising the Collinear Resonance Ionisation Spectroscopy (CRIS) experiment at CERN-ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 384-389.	1.4	13

#	Article	IF	Citations
91	Laser assisted decay spectroscopy at the CRIS beam line at ISOLDE. Journal of Physics: Conference Series, 2012, 381, 012128.	0.4	12
92	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	12
93	Laser spectroscopy of indium Rydberg atom bunches by electric field ionization. Scientific Reports, 2020, 10, 12306.	3.3	12
94	Tin resonance-ionization schemes for atomic- and nuclear-structure studies. Physical Review A, 2020, 102, .	2.5	12
95	Î±-decay study of ${}^{mathrm{182,184}}$Tl. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 025102.	3.6	10
96	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math>-delayed fission and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">At</mml:mi><mml:mprescripts /><mml:none	2.9	10
97	Quadrupole moment of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Fr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>203</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2017, 96, .	2.9	10
98	New systematic features in the neutron-deficient Au isotopes. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 074003.	3.6	10
99	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>-decay properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Fr</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>200</mml:mn><mml:mo>,</mml:mo><mml:mn>202</mml:mn></mml:mrow></mml:mmultiscripts></mml	2.9	10
100	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:mo>,</mml:mo><mml:mn>182</mml:mn></mml:mrow></mml:mmultiscripts></mml:m Physical Review C, 2020, 102, .	2.9	10
101	Production of Sm-153 With Very High Specific Activity for Targeted Radionuclide Therapy. Frontiers in Medicine, 2021, 8, 675221.	2.6	10
102	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: shell closure. Physical Review C, 2021, 104, .	2.9	10
103	Electromagnetic moments of scandium isotopes and Nâ€¯=â€¯28 isotones in the distinctive 0f7/2 orbit. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137064.	4.1	10
104	26 Al beam production by a solid state laser ion source at TRIUMF. Hyperfine Interactions, 2007, 174, 27-32.	0.5	9
105	Decay correlations in the seconds range with laser-ionized, mass-separated beams. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4600-4605.	1.4	9
106	Gamowâ€“Teller transitions in exotic pf-shell nuclei relevant to supernova explosion. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014041.	3.6	9
107	Characterization of a Continuous Muon Source for the Non-Destructive and Depth-Selective Elemental Composition Analysis by Muon Induced X- and Gamma-rays. Applied Sciences (Switzerland), 2022, 12, 2541.	2.5	9
108	Î±decay ofAu176. Physical Review C, 2014, 90, .	2.9	8

#	Article	IF	Citations
109	Collectivity in the light radon nuclei measured directly via Coulomb excitation. Physical Review C, 2015, 91, .	2.9	8
110	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
111	Laser assisted decay spectroscopy at the CRIS beam line at ISOLDE. Hyperfine Interactions, 2013, 216, 95-101.	0.5	7
112	Internal decay of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>(</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mo>â^'</mml state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Tl</mml:mi><mml:mprescripts /><mml:none /><mml:mn>184</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2015, 92, .	2.9	7
113	Production of intense mass separated 11C beams for PET-aided hadron therapy. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 403-407.	1.4	7
114	Resonance ionization schemes for high resolution and high efficiency studies of exotic nuclei at the CRIS experiment. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 398-402.	1.4	7
115	Î² -delayed fission of isomers in Bi188. Physical Review C, 2020, 102, .	2.9	7
116	Nuclear structure of ^{181}Au studied via $$upbeta ^+$$/EC decay of ^{181}Hg at ISOLDE. European Physical Journal A, 2020, 56, 1.	2.5	7
117	First laser ions at the CERN-MEDICIS facility. Hyperfine Interactions, 2020, 241, 1.	0.5	7
118	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 /><mml:mrow><mml:mn>176</mml:mn><mml:mo>,</mml:mo><mml:mn>177</mml:mn><mml:mo>,</mml:mo><mml:mn>179</mml: Physical Review C, 2021, 104, .	2.9	7
119	Precision electron-capture energy in 202Pb and its relevance for neutrino mass determination. European Physical Journal A, 2017, 53, 1.	2.5	6
120	A new control system for high-precision In-Gas Laser Ionization and Spectroscopy experiments at KU Leuven. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 297-301.	1.4	6
121	A compact linear Paul trap cooler buncher for CRIS. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 375-377.	1.4	6
122	Fine structure in the Î± decay of At218. Physical Review C, 2019, 99, .	2.9	5
123	Measurement of spallation cross sections for the production of terbium radioisotopes for medical applications from tantalum targets. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 327-329.	1.4	5
124	Lifetime Measurements and Coulomb Excitation of Light Hg Nuclei. , 2009, , .		4
125	Identification and decay of the 0.48 ms<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>13</mml:mn><mml:mo>/</mml:mo><mml:msup><mml:mn>2</mml:mn></mml:mrow><mm in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Hg</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>181</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>.	2.9	4
126	Detailed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -decay study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Tl</mml:mi><mml:mprescripts /><mml:none /><mml:mn>180</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2017, 96, .	2.9	4

#	ARTICLE	IF	CITATIONS
127	Nuclear structure with radioactive muonic atoms. EPJ Web of Conferences, 2018, 193, 04014.	0.3	4
128	A porous hexagonal boron nitride powder compact for the production and release of radioactive 11C. Journal of the European Ceramic Society, 2021, 41, 4086-4097.	5.7	4
129	Early onset of deformation in the neutron-deficient polonium isotopes. Journal of Physics: Conference Series, 2012, 381, 012072.	0.4	3
130	CRIS: A new method in isomeric beam production. EPJ Web of Conferences, 2013, 63, 01007.	0.3	3
131	Application of the Broad Energy Germanium detector: A technique for elucidating Î² -decay schemes which involve daughter nuclei with very low energy excited states. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 849, 112-118.	1.6	3
132	Collectivity in^{196,198}Pb isotopes probed in Coulomb-excitation experiments at REX-ISOLDE. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 064009.	3.6	3
133	A simple decay-spectroscopy station at CRIS-ISOLDE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 844, 14-18.	1.6	3
134	Radium ionization scheme development: The first observed autoionizing states and optical pumping effects in the hot cavity environment. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 150, 99-104.	2.9	3
135	A compact RFQ cooler buncher for CRIS experiments. Hyperfine Interactions, 2019, 240, 1.	0.5	3
136	First results from the CRIS experiment. Hyperfine Interactions, 2013, 227, 131.	0.5	2
137	Determination of the<i>B</i>(<i>E</i>3, 0⁺â†’ 3^{â^'})-excitation strength in octupole-correlated nuclei near<i>A</i>â‰ˆ 224 by the means of Coulomb excitation at REX-ISOLDE. Journal of Physics: Conference Series, 2014, 533, 012007.	0.4	2
138	Shapes and Collectivity in Neutron Deficient Even-Mass ^{188â€"198}Pb Isotopes. , 2015, , .		2
139	MEDICIS-Promed: an Innovative Training Network for a new generation of professionals in nuclear medicine. IFMBE Proceedings, 2018, , 530-533.	0.3	2
140	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -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
141	Publisher's Note: Laser and decay spectroscopy of the short-lived isotope <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Fr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>214</mml:mn></mml:mmultiscripts></mml:math> in the vicinity of 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</m shell closure [Phys. Rev. C 94 , 054305 (2016)]. Physical Review C, 2016, 94, .	2.9	1
142	The ISOLDE LEGOÂ®robot: building interest in frontier research. Physics Education, 2017, 52, 044004.	0.5	1
143	A new perspective on charge radii around Z = 82. Hyperfine Interactions, 2017, 238, 1.	0.5	1
144	The Institute for Nuclear and Radiation Physics at the University of Leuven. Nuclear Physics News, 2017, 27, 18-22.	0.4	1

#	Article	IF	Citations
145	Decay modes of the <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:mn 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
146	Design and thermal simulations towards a high intensity radioactive ion source for ISOL@MYRRHA. Journal of Physics: Conference Series, 2022, 2244, 012065.	0.4	1
147	Coulomb Excitation of the Nâ€‰=â€‰50 nucleus [sup 80]Zn. AIP Conference Proceedings, 2008, , .	0.4	0
148	Do nuclei go pear-shaped? Coulomb excitation of220Rn and224Ra at REX-ISOLDE (CERN). EPJ Web of Conferences, 2015, 93, 01038.	0.3	0
149	Laser assisted decay spectroscopy at the CRIS beam line at ISOLDE. , 2013, , 95-101.		0
150	Producing gold at ISOLDE-CERN. Nuclear Instruments & Methods in Physics Research B, 2022, 513, 26-32.	1.4	0