

# Lucia Popescu

## List of Publications by Year in descending order

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73  
papers

1,764  
citations

201674

27  
h-index

276875

41  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1379  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Porous TaCx ISOL target materials from mould-casted Ta4AlC3. Journal of the European Ceramic Society, 2021, 41, 3947-3959.	5.7	3
3	Exploratory study for the production of Sc beams at the ISOL facility of MYRRHA preliminary thermal investigations. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 244-247.	1.4	3
4	Design and tests for the new CERN-ISOLDE spallation source: an integrated tungsten converter surrounded by an annular UC target operated at 2000°C. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 357-363.	1.4	3
5	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
6	High-power target development for the next-generation ISOL facilities. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 262-268.	1.4	11
7	Ta-based 413 and 211 MAX phase solid solutions with Hf and Nb. Journal of the European Ceramic Society, 2020, 40, 1829-1838.	5.7	31
8	The LIEBE high-power target: Offline commissioning results and prospects for the production of 100Sn ISOL beams at HIE-ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 128-133.	1.4	1
9	Development of a quality assurance process for the SoLid experiment. Journal of Instrumentation, 2019, 14, P02014-P02014.	1.2	2
10	Decay properties of $^{200}\text{Fr}$ . Physical Review C, 2019, 100, .	2.9	10
11	Inverse odd-even staggering in nuclear charge radii and possible octupole collectivity in $\text{At}_{217,218,219}$ revealed by in-source laser spectroscopy. Physical Review C, 2019, 99, .	2.9	13
12	Synthesis, properties and thermal decomposition of the Ta4AlC3 MAX phase. Journal of the European Ceramic Society, 2019, 39, 2973-2981.	5.7	38
13	Commissioning and operation of the readout system for the SoLid neutrino detector. Journal of Instrumentation, 2019, 14, P11003-P11003.	1.2	4
14	Performance of a full scale prototype detector at the BR2 reactor for the SoLid experiment. Journal of Instrumentation, 2018, 13, P05005-P05005.	1.2	28
15	Decay study of the $^{66}\text{Mn}$ . Physical Review C, 2018, 97, .	2.9	11
16	Optimisation of the scintillation light collection and uniformity for the SoLid experiment. Journal of Instrumentation, 2018, 13, P09005-P09005.	1.2	10
17	Charge radii and electromagnetic moments of $^{219}\text{At}$ . Physical Review C, 2018, 97, .	2.9	35
18	Competition of $^2\text{-delayed}$ protons and $^2\text{-delayed}$ $^3\text{-rays}$ in $^{56}\text{Zn}$ and the exotic $^2\text{-delayed}$ $^3\text{-proton}$ decay. EPJ Web of Conferences, 2016, 117, 06019.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Observation of the $^{52}\text{Co}$ isomer in $^{52}\text{Co}$ . <i>Physical Review C</i> , 2016, 94, .	2.9	5
20	Development of a liquid Pb-Bi target for high-power ISOL facilities. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 376, 57-59.	1.4	2
21	Delayed fission and decay of $^{132}\text{I}$ . <i>Physical Review C</i> , 2016, 94, .	2.9	10
22	Analytical model for release calculations in solid thin-foils ISOL targets. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 832, 202-207.	1.6	3
23	of the exotic $^{48}\text{Ca}$ . <i>Physical Review C</i> , 2016, 93, .	2.9	26
24	The pygmy quadrupole resonance and neutron-skin modes in $^{124}\text{Sn}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 752, 102-107.	4.1	22
25	Nonquenched Isoscalar Spin- $M_{1-}$ Excitations in $^{115}\text{Sn}$ . <i>Physical Review Letters</i> , 2015, 115, 102501.	7.8	39
26	$\beta$ -delayed $\gamma$ -proton Decay in $^{56}\text{Zn}$ : Analysis of the Charged-particle Spectrum. <i>Acta Physica Polonica B</i> , 2015, 46, 709.	0.8	0
27	$^{56}\text{Zn}$ and $^{56}\text{Ni}$ states in $^{56}\text{Zn}$ . <i>Physical Review C</i> , 2015, 91, .	2.9	42
28	CFD analysis and optimization of a liquid lead-bismuth loop target for ISOL facilities. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 777, 202-210.	1.6	4
29	Nuclear-physics applications of MYRRHA. <i>EPJ Web of Conferences</i> , 2014, 66, 10011.	0.3	14
30	Beta Decay of the Exotic $T_{z} = -2$ , $^{56}\text{Zn}$ Nucleus and Half-life of Various Proton-rich $T_{z} = -1$ Nuclei. <i>Acta Physica Polonica B</i> , 2014, 45, 355.	0.8	4
31	Delayed $^{132}\text{I}$ -Proton Decay of $^{132}\text{I}$ . <i>Physical Review Letters</i> , 2014, 112, 112502.	7.8	35
32	Observation of Low- and High-Energy Gamow-Teller Phonon Excitations in Nuclei. <i>Physical Review Letters</i> , 2014, 112, 112502.	7.8	63
33	Evolution of fission-fragment mass distributions in the neutron-deficient lead region. <i>Physical Review C</i> , 2014, 90, .	2.9	39
34	Beta Decay Study of the $T_{z} = -2$ $^{56}\text{Zn}$ Nucleus and the Determination of the Half-Lives of a Few fp-shell Nuclei. <i>Nuclear Data Sheets</i> , 2014, 120, 37-40.	2.2	6
35	Measurement of the first ionization potential of astatine by laser ionization spectroscopy. <i>Nature Communications</i> , 2013, 4, 1835.	12.8	89
36	New developments of the in-source spectroscopy method at RILIS/ISOLDE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 317, 550-556.	1.4	47

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37	<p>High-resolution study of Gamow-Teller transitions via the <math>\hat{I}^2</math> decay of <math>^{61}\text{Mn}</math> to levels in <math>^{61}\text{Fe}</math>. Physical Review C, 2013, 88, .</p>	2.9	13
38	<p>Beta decay of exotic <math>T_{\text{sub } Z}^{\text{â€‰‰âˆ}1}</math> and <math>T_{\text{sub } Z}^{\text{â€‰‰âˆ}2}</math> nuclei. , 2012, , .</p>		1
39	<p>High-resolution study of Gamow-Teller transitions via the <math>\hat{I}^2</math> decay of <math>^{54}\text{Fe}</math> (<math>T_{\text{sub } Z}^{\text{â€‰‰âˆ}1}</math> <math>0.784314</math> rgBT /Overlock 10 Tf 50 667 Td) to levels in <math>^{54}\text{Co}</math>. Physical Review C, 2012, 86, .</p>	2.9	20
40	<p>Gamow-Teller decay population of <math>^{64}\text{Ni}</math> levels in the decay of <math>^{64}\text{Ni}</math>. Physical Review C, 2012, 86, .</p>	2.9	7
41	<p>Structure of the pygmy dipole resonance in <math>^{124}\text{Sn}</math>. Physical Review C, 2012, 85, .</p>	2.9	56
42	<p>Splitting of the Pygmy Dipole Resonance. , 2011, , .</p>		0
43	<p>Gamow-Teller Transitions and <math>\hat{I}^2</math>-decay Half-life in Proton Rich pf-shell Nuclei. , 2010, , .</p>		0
44	<p>Gamow-Teller Transitions in Proton Rich Exotic pf-shell Nuclei Deduced from Mirror Transitions. , 2010, , .</p>		0
45	<p>Isospin Character of the Pygmy Dipole Resonance in <math>^{64}\text{Ni}</math>. Physical Review Letters, 2010, 105, 212503.</p>	7.8	160
46	<p>Gamow-Teller transitions studied in the high-resolution <math>\hat{I}^2</math> decay of <math>^{64}\text{Ni}</math>. Physical Review Letters, 2010, 105, 212503.</p>		

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55	Gamow-Teller transitions in pf-shell nuclei studied in $(^3\text{He}, t)$ reactions. Nuclear Physics A, 2007, 788, 70-75.	1.5	36
56	Search for a low-energy resonance in $^7\text{He}$ with the $^7\text{Li}(d, ^2\text{He})$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 639, 623-628.	4.1	25
57	Gamow-Teller Strengths in the $A=14$ Multiplet: A Challenge to the Shell Model. Physical Review Letters, 2006, 97, 062502.	7.8	40
58	High-resolution study of Gamow-Teller transitions from the $T_z=1$ nucleus $^{46}\text{Ti}$ to the $T_z=0$ nucleus $^{46}\text{V}$ . Physical Review C, 2006, 73, .	2.9	40
59	High resolution study of M1 excitations via proton inelastic scattering at forward angles including zero degrees. Journal of Physics: Conference Series, 2005, 20, 177-178.	0.4	0
60	Structure of $^7\text{He}$ studied with the $^7\text{Li}(d, ^2\text{He})$ reaction. Journal of Physics: Conference Series, 2005, 20, 183-184.	0.4	0
61	Level widths of $^{14}\text{O}$ states studied in the high-resolution $^{14}\text{N}(\text{He}^3, t)^{14}\text{O}$ reaction. Physical Review C, 2005, 71, .	2.9	18
62	Measurement of the $^2\text{H}(d, ^2\text{He})^2\text{n}$ reaction at $E_d=171\text{ÅMeV}$ and implications for the neutron-neutron scattering length. Physical Review C, 2005, 71, .	2.9	17
63	Spin-isospin excitations in the medium-mass nucleus $^{58}\text{Co}$ investigated with the $(d, ^2\text{He})$ reaction. Physical Review C, 2005, 71, .	2.9	19
64	Low-lying GT+strength in $^{116}\text{In}$ from a $(d, ^2\text{He})$ reaction experiment and its implications for $^{116}\text{Cd}$ double $\hat{I}^2$ decay. Physical Review C, 2005, 71, .	2.9	44
65	Determination of the Gamow-Teller strength distribution from the odd-odd nucleus $^{50}\text{V}$ measured through $^{50}\text{V}(d, ^2\text{He})^{50}\text{Ti}$ and astrophysical implications. Physical Review C, 2005, 71, .	2.9	21
66	High resolution study of the Gamow-Teller strength distribution starting from the ground state of $^{14}\text{N}$ in the $\hat{I}^2\hat{\alpha}^-$ and $\hat{I}^2+$ directions. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1931-S1934.	3.6	2
67	Gamow-Teller transitions in the $^{64}\text{Ni}(^3\text{He}, t)^{64}\text{Cu}$ reaction. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1945-S1948.	3.6	6
68	Gamow-Teller Strengths in Proton-Rich Exotic Nuclei Deduced in the Combined Analysis of Mirror Transitions. Physical Review Letters, 2005, 95, 212501.	7.8	55
69	Gamow-Teller transitions to $^{32}\text{P}$ studied through the $^{32}\text{S}(d, ^2\text{He})$ reaction at $E_d=170\text{MeV}$ . Physical Review C, 2004, 69, .	2.9	34
70	Nuclear matrix elements for the $^{48}\text{Ca}$ two-neutrino double- $\hat{I}^2$ decay from high-resolution charge-exchange reactions. Physical Review C, 2004, 70, .	2.9	47
71	High-resolution study of $^{11}\text{B}$ to $^{11}\text{C}$ Gamow-Teller strengths as a test case of ab initio shell-model calculations. Physical Review C, 2004, 70, .	2.9	18
72	Deuteron elastic and inelastic scattering at intermediate energies from nuclei in the mass range $6\hat{\alpha} \leq A \leq 116$ . Physical Review C, 2004, 70, .	2.9	27

#	ARTICLE	IF	CITATIONS
73	High-resolution study of the Gamow-Teller strength distribution in $^{51}\text{Ti}$ measured through $^{51}\text{V}(d,2\text{He})^{51}\text{Ti}$ . Physical Review C, 2003, 68, .	2.9	53