

# 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	Isospin Character of the Pygmy Dipole Resonance in $^{124}\text{Sn}$ . Physical Review Letters, 2010, 105, 212503.	7.8	160
2	Measurement of the first ionization potential of astatine by laser ionization spectroscopy. Nature Communications, 2013, 4, 1835.	12.8	89
3	Measurement of high energy resolution inelastic proton scattering at and close to zero degrees. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, The $^{124}\text{Sn}$ $\gamma$ BT / Overlock 10 Tf 50 647 Td (display="inline")	1.6	88
4	$^{124}\text{Sn}$ $\gamma$ BT / Overlock 10 Tf 50 647 Td (display="inline")	2.9	69
5	Observation of Low- and High-Energy Gamow-Teller Phonon Excitations in Nuclei. Physical Review Letters, 2014, 112, 112502.	7.8	63
6	Structure of the pygmy dipole resonance in $^{124}\text{Sn}$ . Physical Review C, 2012, 85, .	2.9	56
7	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
8	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
9	$^{51}\text{Ti}$ $\gamma$ BT / Overlock 10 Tf 50 442 Td (display="inline")	2.9	50
10	Nuclear matrix elements for the $^{48}\text{Ca}$ two-neutrino double- $\beta^2$ decay from high-resolution charge-exchange reactions. Physical Review C, 2004, 70, .	2.9	47
11	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
12	Low-lying GT+strength in $^{116}\text{In}$ from a $(d, \text{He}2)$ reaction experiment and its implications for $^{116}\text{Cd}$ double $\beta^2$ decay. Physical Review C, 2005, 71, .	2.9	44
13	$^{116}\text{In}$ $\gamma$ BT / Overlock 10 Tf 50 287 Td (display="inline")	2.9	42
14	Characterization of the low-lying $^{116}\text{In}$ $\gamma$ BT / Overlock 10 Tf 50 287 Td (display="inline")	2.9	42
15	Gamow-Teller Strengths in the $A=14$ Multiplet: A Challenge to the Shell Model. Physical Review Letters, 2006, 97, 062502.	7.8	40
16	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
17	Evolution of fission-fragment mass distributions in the neutron-deficient lead region. Physical Review C, 2014, 90, .	2.9	39
18	Nonquenched Isoscalar Spin- $M_{1-}$ Excitations in $^{124}\text{Sn}$ -Shell Nuclei. Physical Review Letters, 2015, 115, 102501.	7.8	39

#	ARTICLE	IF	CITATIONS
19	Synthesis, properties and thermal decomposition of the Ta <sub>4</sub> AlC <sub>3</sub> MAX phase. Journal of the European Ceramic Society, 2019, 39, 2973-2981.	5.7	38
20	Gamow-Teller transitions in pf-shell nuclei studied in (3He, t) reactions. Nuclear Physics A, 2007, 788, 70-75.	1.5	36
21	Studies on the double- $\beta^2$ decay nucleus $^{64}\text{Zn}$ using the		

#	ARTICLE	IF	CITATIONS
37	Teller transitions studied in the high-resolution $Ni$		

#	ARTICLE	IF	CITATIONS
55	CFD analysis and optimization of a liquid lead-bismuth loop target for ISOL facilities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 777, 202-210.	1.6	4
56	Commissioning and operation of the readout system for the SoLid neutrino detector. Journal of Instrumentation, 2019, 14, P11003-P11003.	1.2	4
57	Analytical model for release calculations in solid thin-foils ISOL targets. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 832, 202-207.	1.6	3
58	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
59	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
60	Porous TaCx ISOL target materials from mould-casted Ta <sub>4</sub> AlC <sub>3</sub> . Journal of the European Ceramic Society, 2021, 41, 3947-3959.	5.7	3
61	High resolution study of the Gamow-Teller strength distribution starting from the ground state of <sup>14</sup> N in the <sup>1</sup> 2 <sup>-</sup> and <sup>1</sup> 2 <sup>+</sup> directions. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1931-S1934.	3.6	2
62	Development of a liquid Pb-Bi target for high-power ISOL facilities. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 57-59.	1.4	2
63	Development of a quality assurance process for the SoLid experiment. Journal of Instrumentation, 2019, 14, P02014-P02014.	1.2	2
64	Beta decay of exotic T <sub>Z</sub> <sup>1</sup> and T <sub>Z</sub> <sup>2</sup> nuclei. , 2012, , .		1
65	The LIEBE high-power target: Offline commissioning results and prospects for the production of <sup>100</sup> Sn ISOL beams at HIE-ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 128-133.	1.4	1
66	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
67	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
68	Structure of <sup>7</sup> He studied with the <sup>7</sup> Li(d,2He) reaction. Journal of Physics: Conference Series, 2005, 20, 183-184.	0.4	0
69	Gamow-Teller Transitions and <sup>1</sup> 2-decay Half-life in Proton Rich pf-shell Nuclei. , 2010, , .		0
70	Gamow-Teller Transitions in Proton Rich Exotic pf-shell Nuclei Deduced from Mirror Transitions. , 2010, , .		0
71	Splitting of the Pygmy Dipole Resonance. , 2011, , .		0
72	β <sup>-</sup> -delayed γ <sup>-</sup> -proton Decay in <sup>56</sup> Zn: Analysis of the Charged-particle Spectrum. Acta Physica Polonica B, 2015, 46, 709.	0.8	0

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73	Competition of $\beta^2$ -delayed protons and $\beta^2$ -delayed $\beta^3$ rays in $^{56}\text{Zn}$ and the exotic $\beta^2$ -delayed $\beta^3$ -proton decay. EPJ Web of Conferences, 2016, 117, 06019.	0.3	0