

# Isabel Gonçães

## List of Publications by Year in descending order

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102  
papers

1,938  
citations

186265

28  
h-index

254184

43  
g-index

102  
all docs

102  
docs citations

102  
times ranked

976  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the neutron time-of-flight facility n_TOF at CERN. European Physical Journal A, 2013, 49, 1.	2.5	205
2	New experimental validation of the pulse height weighting technique for capture cross-section measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 521, 454-467.	1.6	101
3	The data acquisition system of the neutron time-of-flight facility n_TOF at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 692-702.	1.6	84
4	The n_TOF Total Absorption Calorimeter for neutron capture measurements at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 424-433.	1.6	80
5	$U + {}^{234}\text{Pu} \rightarrow {}^{235}\text{Pu} + n$	2.9	72
6	${}^{197}\text{Au} + n \rightarrow {}^{198}\text{Au} + \gamma$	2.8	68
7	Neutron Capture Cross Section Measurement of Sm151 at the CERN Neutron Time of Flight Facility (n_TOF). Physical Review Letters, 2004, 93, 161103.	7.8	65
8	${}^{197}\text{Au} + n \rightarrow {}^{198}\text{Au} + \gamma$	2.8	55
9	Resonance neutron-capture cross sections of stable magnesium isotopes and their astrophysical implications. Physical Review C, 2012, 85, .	2.9	55
10	Measurement of the n_TOF beam profile with a micromegas detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 524, 102-114.	1.6	54
11	Universal curve of epithermal neutron resonance self-shielding factors in foils, wires and spheres. Applied Radiation and Isotopes, 2003, 58, 371-375.	1.5	48
12	New measurement of neutron capture resonances in Bi209. Physical Review C, 2006, 74, .	2.9	46
13	Neutron capture cross section of ${}^{90}\text{Zr}$ bottleneck in the Neutron Capture Cross Section of Unstable ${}^{90}\text{Zr}$ process reaction flow.	2.9	44
14	Neutron Capture Cross Section of Unstable ${}^{63}\text{Ni}$ . Physical Review Letters, 2013, 110, 022501.	7.8	44
15	Neutron capture cross section of Th232 measured at the n_TOF facility at CERN in the unresolved resonance region up to 1 MeV. Physical Review C, 2006, 73, .	2.9	41
16	${}^{93}\text{Zr} + n \rightarrow {}^{94}\text{Zr} + \gamma$	2.9	39
17	reaction up to 8 keV neutron energy. Physical Review C, 2013, 87, . Universal curve of the thermal neutron self-shielding factor in foils, wires, spheres and cylinders. Journal of Radioanalytical and Nuclear Chemistry, 2004, 261, 637-643.	1.5	37
18	Measurement of the ${}^{151}\text{Sm}(n,\gamma)$ cross section from 0.6 eV to 1 MeV via the neutron time-of-flight technique at the CERN n_TOF facility. Physical Review C, 2006, 73, .	2.9	36

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19	cross sections of $^{186}\text{Os}$ and $^{187}\text{Os}$ . <i>Physical Review C</i> , 2007, 75, .	2.9	36
20	Neutron-induced fission cross section of $^{235}\text{U}$ and $^{238}\text{U}$ at CERN. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 261, 925-929.	2.9	36
21	Status and outlook of the neutron time-of-flight facility n_TOF at CERN. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 261, 925-929.	1.4	35
22	Time-energy relation of the n_TOF neutron beam: energy standards revisited. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 532, 622-630.	1.6	34
23	Measurement of the neutron capture cross section of $^{91}\text{Zr}$ . <i>Physical Review C</i> , 2006, 74, .	2.9	34
24	Measurement of the neutron capture cross section of $^{92}\text{Zr}$ . <i>Physical Review C</i> , 2007, 75, .	2.9	33
25	Resonance capture cross section of $^{207}\text{Pb}$ . <i>Physical Review C</i> , 2006, 74, .	2.9	32
26	Measurement of the neutron capture cross section of the s-only isotope $^{204}\text{Pb}$ from 1 eV to 440 keV. <i>Physical Review C</i> , 2007, 75, .	2.9	32
27	Measurement of the radiative neutron capture cross section of $^{206}\text{Pb}$ and its astrophysical implications. <i>Physical Review C</i> , 2007, 76, .	2.9	30
28	High-accuracy $^{233}\text{U}(n,f)$ cross-section measurement at the white-neutron source n_TOF from near-thermal to 1 MeV neutron energy. <i>Physical Review C</i> , 2009, 80, .	2.9	30
29	cross sections of $^{186}\text{Os}$ and $^{187}\text{Os}$ . <i>Physical Review C</i> , 2007, 75, .	2.9	28
30	Measurement and resonance analysis of the $^{237}\text{Np}$ neutron capture cross section. <i>Physical Review C</i> , 2012, 85, .	2.9	26
31	A new CVD diamond mosaic-detector for (n, $\gamma$ ) reactions at CERN. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 732, 190-194.	1.6	26
32	The $^{139}\text{La}(n,\gamma)$ cross section: Key for the onset of the s-process. <i>Physical Review C</i> , 2007, 75, .	2.9	24
33	Neutron capture on $^{94}\text{Zr}$ : Resonance parameters and Maxwellian-averaged cross sections. <i>Physical Review C</i> , 2011, 84, .	2.9	24
34	Measurement of resolved resonances of $^{232}\text{Th}(n,\gamma)$ at the n_TOF facility at CERN. <i>Physical Review C</i> , 2012, 85, .	2.9	23
35	Monte Carlo calculation of epithermal neutron resonance self-shielding factors in foils of different materials. <i>Applied Radiation and Isotopes</i> , 2002, 56, 945-951.	1.5	21
36	Simultaneous measurement of neutron-induced capture and fission reactions at CERN. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	19

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37	(n,p), (n, $\hat{1}\pm$ ) and (n,2n) reaction cross-sections for some isotopes of Zr, Pd, and Cd at 14.8 MeV. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1997, 48, 1349-1354.	0.5	18
38	Monte Carlo simulation of the movement and detection efficiency of a whole-body counting system using a BOMAB phantom. Radiation Protection Dosimetry, 2012, 148, 403-413.	2.9	17
39	Extension to cylindrical samples of the universal curve of resonance neutron self-shielding factors. Nuclear Instruments & Methods in Physics Research B, 2004, 213, 186-188.	0.8	16
40	Measurement of the $^{236}\text{U}(n,f)$ cross section from 170 meV to 2 MeV at the CERNn_TOF facility. Physical Review C, 2011, 84, .	1.4	15
41	A Monte Carlo study of the influence of the geometry arrangements and structural materials on a PGNAA system performance for cement raw material analysis. Applied Radiation and Isotopes, 1997, 48, 1349-1354.	2.9	14
42	The measurement of the $^{206}\text{Pb}(n, \hat{1}^3)$ cross section and stellar implications. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014020.	1.5	11
43	The calculation of neutron self-shielding factors of a group of isolated resonances. Journal of Radioanalytical and Nuclear Chemistry, 2004, 260, 317-320.	3.6	11
44	Monte Carlo studies of the irradiator geometry of the Portuguese Gamma Irradiation Facility. Radiation Physics and Chemistry, 2002, 65, 293-295.	1.5	10
45	Measurement of the neutron-induced fission cross-section of $^{241}\text{Am}$ at the time-of-flight facility n_TOF. European Physical Journal A, 2013, 49, 1.	2.8	9
46	Study of Photon Strength Function of Actinides: the Case of $^{235}\text{U}$ , $^{238}\text{Np}$ and $^{241}\text{Pu}$ . Journal of the Korean Physical Society, 2011, 59, 1510-1513.	2.5	9
47	Nuclear physics for the Re/Os clock. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014015.	0.7	9
48	Measurement of the $^{151}\text{Sm}(n, \hat{1}^3)^{152}\text{Sm}$ cross section at n_TOF. Nuclear Physics A, 2005, 758, 533-536.	3.6	8
49	Neutron capture cross section measurements for nuclear astrophysics at CERN n_TOF. Nuclear Physics A, 2005, 758, 501-504.	1.5	7
50	Neutron reactions and nuclear cosmo-chronology. Progress in Particle and Nuclear Physics, 2007, 59, 165-173.	1.5	7
51	Neutron cross-sections for next generation reactors: New data from n_TOF. Applied Radiation and Isotopes, 2010, 68, 643-646.	14.4	7
52	Radiation protection, radiation safety and radiation shielding assessment of HIE-ISOLDE. Radiation Protection Dosimetry, 2013, 155, 351-363.	1.5	7
53	Radiation protection, radiation safety and radiation shielding assessment of HIE-ISOLDE. Radiation Protection Dosimetry, 2013, 155, 351-363.	0.8	7
54	Neutron induced capture and fission discrimination using calorimetric shape decomposition. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 704, 60-67.	1.6	5

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55	Monte Carlo calculation of resonance self-shielding factors for epithermal neutron spectra. Radiation Physics and Chemistry, 2001, 61, 461-462.	2.8	4
56	Past, Present and Future of the n_TOF Facility at CERN. Journal of the Korean Physical Society, 2011, 59, 1620-1623.	0.7	4
57	Work in the field of BNCT using the Portuguese Research Reactor. Journal of Radioanalytical and Nuclear Chemistry, 1999, 240, 431-432.	1.5	3
58	Measurements at n_TOF of the Neutron Capture Cross Section of Minor Actinides Relevant to the Nuclear Waste Transmutation. AIP Conference Proceedings, 2005, , .	0.4	3
59	Neutron Capture Cross Section Measurements at n_TOF of $^{237}\text{Np}$ , $^{240}\text{Pu}$ and $^{243}\text{Am}$ for the Transmutation of Nuclear Waste. AIP Conference Proceedings, 2006, , .	0.4	3
60	EURISOL-DS multi-MW target unit: Neutronics performance and shielding assessment, dose rate and material activation calculations for the MAFF configuration. Radiation Measurements, 2010, 45, 1350-1354.	1.4	3
61	<small>Measurement of resolved resonances of <math>^{232}\text{Th}</math> at n_TOF</small> $^{232}\text{Th}(n, \gamma)^{233\text{m}}\text{Th} \rightarrow ^{233}\text{Th} \rightarrow ^{233}\text{Pa} \rightarrow ^{233}\text{U}$ <small>Measurement of <math>^{232}\text{Th}(n, \gamma)^{233\text{m}}\text{Th}</math> at n_TOF</small>	2.9	3
62	Dosimetric assessment and characterisation of the neutron field around a Howitzer container using a Bonner sphere spectrometer, Monte Carlo simulations and the NSDann and NSDUAZ unfolding codes. Radiation Protection Dosimetry, 2013, 154, 346-355.	0.8	3
63	Improved Neutron Capture Cross Section Measurements with the n_TOF Total Absorption Calorimeter. Journal of the Korean Physical Society, 2011, 59, 1813-1816.	0.7	3
64	Fission Cross-section Measurements of $^{233}\text{U}$ , $^{245}\text{Cm}$ and $^{241}\text{Am}$ ; $^{243}\text{Am}$ at CERN n_TOF Facility. Journal of the Korean Physical Society, 2011, 59, 1912-1915.	0.7	3
65	Measurements of the $^{90}\text{Zr}$ , $^{91}\text{Zr}$ , $^{92}\text{Zr}$ , $^{94}\text{Zr}$ , $^{96}\text{Zr}$ ( $n, \hat{1}^3$ ) cross-sections at n_TOF. Nuclear Physics A, 2005, 758, 573-576.	1.5	2
66	The n_TOF Facility at CERN: Performances and First Physics Results. AIP Conference Proceedings, 2005, , .	0.4	2
67	High-Resolution Study of $^{237}\text{Np}$ Fission Cross Section from 5 eV to 1 MeV. AIP Conference Proceedings, 2005, , .	0.4	2
68	Neutron cross section measurements at n-TOF for ADS related studies. Journal of Physics: Conference Series, 2006, 41, 352-360.	0.4	2
69	Neutron-induced fission cross section measurement of $^{233}\text{U}$ , $^{241}\text{Am}$ and $^{243}\text{Am}$ in the energy range 0.5 MeV $\leq E_n \leq 20$ MeV at n_TOF at CERN. Physica Scripta, 2012, T150, 014005.	2.5	2
70	Present status and future programs of the n_TOF experiment. EPJ Web of Conferences, 2012, 21, 03001.	0.3	2
71	Neutron Capture Measurements on Minor Actinides at the n_TOF Facility at CERN: Past, Present and Future. Journal of the Korean Physical Society, 2011, 59, 1809-1812.	0.7	2
72	$^{237}\text{Np}(n, f)$ Cross Section: New Data and Present Status. Journal of the Korean Physical Society, 2011, 59, 1908-1911.	0.7	2

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73	Epithermal neutron self-shielding factors in foils for collimated beams. Applied Radiation and Isotopes, 2004, 60, 677-681.	1.5	1
74	MCNP simulation to optimise in-pile and shielding parts of the Portuguese SANS instrument. Radiation Protection Dosimetry, 2005, 116, 562-565.	0.8	1
75	Neutron Capture Cross Sections for the Re/Os Clock. AIP Conference Proceedings, 2005, , .	0.4	1
76	A methodology for the determination of the radionuclide contents and activity of samples. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 201-205.	1.6	1
77	The [ <sup>237</sup> Np(n,f) cross section at the CERN n-TOF facility. , 2011, , .		1
78	The Neutron Time-Of-Flight Facility n <sub>±</sub> TOF At CERN: Phase II. , 2011, , .		1
79	Towards the enhancement of the photon/neutron discrimination of C6D6 detectors in the range from 1 to 10 MeV using liquid scintillator materials doped with high-Z elements. Radiation Protection Dosimetry, 2005, 115, 394-397.	0.8	0
80	New Measurement of the Capture Cross Section of Bismuth and Lead Isotopes. AIP Conference Proceedings, 2005, , .	0.4	0
81	Measurement of the <sup>232</sup> Th Neutron Capture Cross Section at the CERN n_TOF Facility. AIP Conference Proceedings, 2005, , .	0.4	0
82	Measurement of Capture Cross Sections of <sup>90,91,92,94,96</sup> Zr Isotopes at n_TOF. AIP Conference Proceedings, 2005, , .	0.4	0
83	Characterisation of a neutron beam available at the RPI using a set of bonner spheres. Radiation Protection Dosimetry, 2005, 116, 77-80.	0.8	0
84	Measurement of <sup>139</sup> La(n, <sup>133</sup> ) Cross Section. AIP Conference Proceedings, 2006, , .	0.4	0
85	Measurement of the resonance capture cross section of <sup>204,206</sup> Pb and termination of the s-process. AIP Conference Proceedings, 2006, , .	0.4	0
86	Measurement of <sup>139</sup> La(n, <sup>133</sup> ) Cross Section at n_TOF. AIP Conference Proceedings, 2006, , .	0.4	0
87	Implications of <sup>151</sup> Sm(n, <sup>133</sup> ) Cross Section at n_TOF. AIP Conference Proceedings, 2006, , .	0.4	0
88	Measurements of neutron capture cross-sections at n_TOF. AIP Conference Proceedings, 2007, , .	0.4	0
89	Measurement of the Neutron Induced Fission Cross Section on Transuranic (TRU) Elements at the n <sub>±</sub> TOF Facility at CERN. AIP Conference Proceedings, 2007, , .	0.4	0
90	Recent Results at n <sub>±</sub> TOF and Future Perspectives. AIP Conference Proceedings, 2008, , .	0.4	0

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91	n <sub>±</sub> TOF Experiment: Past, Present And Future. , 2009, , .		0
92	Neutron Capture Measurements at the n <sub>±</sub> TOF Facility. , 2009, , .		0
93	Fission cross-section measurements on [ <sup>233</sup> U and minor actinides at the CERN n <sub>±</sub> TOF facility. , 2009, , .		0
94	ASTROPHYSICS AT n <sub>±</sub> TOF FACILITY. , 2010, , .		0
95	The EURISOL Multi-MW Target Unit: Neutronics, Dose Rate, Shielding and Activation Calculations. , 2010, , .		0
96	Study of Neutron-Induced Fission Cross Sections of U, Am, and Cm at n <sub>±</sub> TOF. , 2010, , .		0
97	Astrophysics at n_TOF Facility at CERN. Journal of Physics: Conference Series, 2011, 312, 042024.	0.4	0
98	Neutron research at the N_TOF facility (CERN): Results and perspectives. , 2013, , .		0
99	High-energy Neutron-induced Fission Cross Sections of Natural Lead and Bismuth-209. Journal of the Korean Physical Society, 2011, 59, 1904-1907.	0.7	0
100	The Role of Fe and Ni for S-Process Nucleosynthesis and Innovative Nuclear Technologies. Journal of the Korean Physical Society, 2011, 59, 2106-2109.	0.7	0
101	Characterization of the New n_TOF Neutron Beam: Fluence, Profile and Resolution. Journal of the Korean Physical Society, 2011, 59, 1624-1627.	0.7	0
102	Measurement of the <sup>236</sup> U(n, f) Cross Section at n_TOF. Journal of the Korean Physical Society, 2011, 59, 1793-1796.	0.7	0