

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	Measurement of the neutron-induced fission cross-section of ^{241}Am at the time-of-flight facility n_TOF. European Physical Journal A, 2013, 49, 1.	2.5	9
3	Radiation protection, radiation safety and radiation shielding assessment of HIE-ISOLDE. Radiation Protection Dosimetry, 2013, 155, 351-363.	0.8	7
4	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
5	A new CVD diamond mosaic-detector for (n, γ) reactions at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 190-194.	1.6	26
6	Neutron Capture Cross Section of Unstable ^{63}Ni . Physical Review Letters, 2013, 110, 022501.	7.8	44
7	Neutron research at the N_TOF facility (CERN): Results and perspectives. , 2013, , .		0
8	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
9	Measurement of the neutron capture cross section of ^{93}Zr reaction up to 8 keV neutron energy. Physical Review C, 2013, 87, 014607.	2.9	39
10	Measurement of resolved resonances of $^{232}\text{Th}(n,\gamma)$ at the n_TOF facility at CERN. Physical Review C, 2012, 85, .	2.9	23
11	Measurement of resolved resonances of $^{232}\text{Th}(n,\gamma)$ reaction up to 8 keV neutron energy. Physical Review C, 2012, 85, .	2.9	34
12	Measurement and resonance analysis of the ^{237}Np neutron capture cross section. Physical Review C, 2012, 85, .	2.9	26
13	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.	0.8	16
14	Neutron-induced fission cross section measurement of ^{233}U , ^{241}Am and ^{243}Am in the energy range 0.5 MeV $\leq E < 20$ MeV at n_TOF at CERN. Physica Scripta, 2012, T150, 014005.	2.5	2
15	Resonance neutron-capture cross sections of stable magnesium isotopes and their astrophysical implications. Physical Review C, 2012, 85, .	2.9	55
16	Present status and future programs of the n_TOF experiment. EPJ Web of Conferences, 2012, 21, 03001.	0.3	2
17	Simultaneous measurement of neutron-induced capture and fission reactions at CERN. European Physical Journal A, 2012, 48, 1.	2.5	19
18	Astrophysics at n_TOF Facility at CERN. Journal of Physics: Conference Series, 2011, 312, 042024.	0.4	0

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19	The [²³⁷ Np(n,f) cross section at the CERN n-TOF facility. , 2011, , . <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>96</mml:mn></mml:msup></mml:math>Zr<mml:math>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (xmlns:mml="http://		1
20		2.9	17
21	Neutron capture on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Zr</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>94</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>: Resonance parameters and Maxwellian-averaged cross sections. Physical Review C. 2011, 84, . xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mi mathvariant="normal">nat</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:math>Pb and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Bi</mml:mi><mml:mprescripts />	2.9	24
22		2.9	36
23	Measurement of the ²³⁶ U(n,f) cross section from 170 meV to 2 MeV at the CERNn_TOFfacility. Physical Review C, 2011, 84, . <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Au</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>197</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mi mathvariant="normal">nat</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:math>Pb and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Bi</mml:mi><mml:mprescripts />	2.9	14
24		2.9	14
25	The Neutron Time-Of-Flight Facility n _± TOF At CERN: Phase II. , 2011, , .		1
26	Study of Photon Strength Function of Actinides: the Case of ²³⁵ U, ²³⁸ Np and ²⁴¹ Pu. Journal of the Korean Physical Society, 2011, 59, 1510-1513.	0.7	9
27	Past, Present and Future of the n_TOF Facility at CERN. Journal of the Korean Physical Society, 2011, 59, 1620-1623.	0.7	4
28	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
29	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
30	²³⁷ Np(n,f) Cross Section: New Data and Present Status. Journal of the Korean Physical Society, 2011, 59, 1908-1911.	0.7	2
31	Fission Cross-section Measurements of ²³³ U, ²⁴⁵ Cm and ²⁴¹ ; ²⁴³ Am at CERN n_TOF Facility. Journal of the Korean Physical Society, 2011, 59, 1912-1915.	0.7	3
32	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
33	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
34	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
35	Measurement of the ²³⁶ U(n, f) Cross Section at n_TOF. Journal of the Korean Physical Society, 2011, 59, 1793-1796.	0.7	0
36	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

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55	Neutron capture cross section of Zr^{90} Bottleneck in the s -process reaction flow. Physical Review C, 2008, 77, .	2.9	44
56	Measurements of neutron capture cross-sections at n_TOF. AIP Conference Proceedings, 2007, , .	0.4	0
57	Measurement of the Neutron Induced Fission Cross Section on Transuranic (TRU) Elements at the n ₁ ±TOF Facility at CERN. AIP Conference Proceedings, 2007, , .	0.4	0
58	Measurement of the radiative neutron capture cross section of Pb^{206} and its astrophysical implications. Physical Review C, 2007, 76, .	2.9	30
59	Measurement of the neutron capture cross section of the only isotope Pb^{204} from 1 eV to 440 keV. Physical Review C, 2007, 75, .	2.9	32
60	The $La^{139}(n, \hat{1}^3)$ cross section: Key for the onset of the s -process. Physical Review C, 2007, 75, .	2.9	24
61	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
62	Neutron reactions and nuclear cosmo-chronology. Progress in Particle and Nuclear Physics, 2007, 59, 165-173.	14.4	7
63	Status and outlook of the neutron time-of-flight facility n_TOF at CERN. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 925-929.	1.4	35
64	Measurement of $La^{139}(n, \hat{1}^3)$ Cross Section. AIP Conference Proceedings, 2006, , .	0.4	0
65	Measurement of the resonance capture cross section of $204,206Pb$ and termination of the s -process. AIP Conference Proceedings, 2006, , .	0.4	0
66	Neutron Capture Cross Section Measurements at n_TOF of $237Np$, $240Pu$ and $243Am$ for the Transmutation of Nuclear Waste. AIP Conference Proceedings, 2006, , .	0.4	3
67	Neutron cross section measurements at n-TOF for ADS related studies. Journal of Physics: Conference Series, 2006, 41, 352-360.	0.4	2
68	Measurement of $La^{139}(n, \hat{1}^3)$ Cross Section at n_TOF. AIP Conference Proceedings, 2006, , .	0.4	0
69	Implications of $Sm^{151}(n, \hat{1}^3)$ Cross Section at n_TOF. AIP Conference Proceedings, 2006, , .	0.4	0
70	Measurement of the $Sm^{151}(n, \hat{1}^3)$ 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
71	New measurement of neutron capture resonances in Bi^{209} . Physical Review C, 2006, 74, .	2.9	46
72	Neutron capture cross section of Th^{232} 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

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73	Resonance capture cross section of Pb207. Physical Review C, 2006, 74, .	2.9	32
74	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.	1.5	7
75	Neutron capture cross section measurements for nuclear astrophysics at CERN n_TOF. Nuclear Physics A, 2005, 758, 501-504.	1.5	7
76	Measurements of the $^{90,91,92,94,96}\text{Zr}(n,\hat{1}^3)$ cross-sections at n_TOF. Nuclear Physics A, 2005, 758, 573-576.	1.5	2
77	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
78	MCNP simulation to optimise in-pile and shielding parts of the Portuguese SANS instrument. Radiation Protection Dosimetry, 2005, 116, 562-565.	0.8	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	The n_TOF Facility at CERN: Performances and First Physics Results. AIP Conference Proceedings, 2005, , .	0.4	2
81	High-Resolution Study of ^{237}Np Fission Cross Section from 5 eV to 1 MeV. AIP Conference Proceedings, 2005, , .	0.4	2
82	Neutron Capture Cross Sections for the Re/Os Clock. AIP Conference Proceedings, 2005, , .	0.4	1
83	New Measurement of the Capture Cross Section of Bismuth and Lead Isotopes. AIP Conference Proceedings, 2005, , .	0.4	0
84	Measurement of the ^{232}Th Neutron Capture Cross Section at the CERN n_TOF Facility. AIP Conference Proceedings, 2005, , .	0.4	0
85	Measurement of Capture Cross Sections of $^{90,91,92,94,96}\text{Zr}$ Isotopes at n_TOF. AIP Conference Proceedings, 2005, , .	0.4	0
86	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
87	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
88	Neutron Capture Cross Section Measurement of ^{151}Sm at the CERN Neutron Time of Flight Facility (n_TOF). Physical Review Letters, 2004, 93, 161103.	7.8	65
89	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.	1.4	15
90	The calculation of neutron self-shielding factors of a group of isolated resonances. Journal of Radioanalytical and Nuclear Chemistry, 2004, 260, 317-320.	1.5	10

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91	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
92	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
93	Time-energy relation of the n_TOF neutron beam: energy standards revisited. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 532, 622-630.	1.6	34
94	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
95	Epithermal neutron self-shielding factors in foils for collimated beams. Applied Radiation and Isotopes, 2004, 60, 677-681.	1.5	1
96	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
97	Monte Carlo calculation of epithermal neutron resonance self-shielding factors in foils of different materials. Applied Radiation and Isotopes, 2002, 56, 945-951.	1.5	21
98	Monte Carlo studies of the irradiator geometry of the Portuguese Gamma Irradiation Facility. Radiation Physics and Chemistry, 2002, 65, 293-295.	2.8	9
99	Monte Carlo calculation of resonance self-shielding factors for epithermal neutron spectra. Radiation Physics and Chemistry, 2001, 61, 461-462.	2.8	4
100	Work in the field of BNCT using the Portuguese Research Reactor. Journal of Radioanalytical and Nuclear Chemistry, 1999, 240, 431-432.	1.5	3
101	A Monte Carlo study of the influence of the geometry arrangements and structural materials on a PGNA system performance for cement raw material analysis. Applied Radiation and Isotopes, 1997, 48, 1349-1354.	1.5	11
102	(n,p), (n, \bar{p}) 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, 1987, 38, 989-991.	0.5	18