

# Vicente BÃ©cares

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

1,340  
citations

361413

20  
h-index

377865

34  
g-index

104  
all docs

104  
docs citations

104  
times ranked

857  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	3
2	Constraints on the dipole photon strength for the odd uranium isotopes. Physical Review C, 2022, 105, .	2.9	1
3	Optimization under uncertainty for robust fuel cycle analyses. International Journal of Energy Research, 2021, 45, 6139-6151.	4.5	1
4	Radiative Neutron Capture Cross-Section Measurement of Ge Isotopes at n_TOF CERN Facility and Its Importance for Stellar Nucleosynthesis. Acta Physica Polonica A, 2021, 139, 383-388.	0.5	0
5	Neutron Capture on the $^{242}\text{Pu}$ -Process Branching Point	2.9	3
6	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
7	Investigation of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
8	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
9	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
10	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
11	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
12	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
13	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
14	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
15	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
16	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
17	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7
18	Measurement of the $^{242}\text{Pu}(n, \gamma)^{243}\text{Pu}$ cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	2.9	7

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19	Preparation and characterization of A33S samples for A33S(n,γ) reaction at the n_TOF facility at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 890, 142-147.	1.6	2
20	Radiative neutron capture on $^{242}\text{Pu}$ in the resonance region at the CERN n_TOF-EAR1 facility. Physical Review C, 2018, 97, .	2.9	21
21	Measurement of the radiative capture cross section of the s-process branching points $^{204}\text{Tl}$ and $^{171}\text{Tm}$ at the n_TOF facility (CERN). EPJ Web of Conferences, 2018, 178, 03004.	0.3	1
22	Measurement and analysis of the $^{241}\text{Am}$ neutron capture cross section at the n_TOF facility at CERN. Physical Review C, 2018, 97, .	2.9	9
23	Measurement and resonance analysis of the $^{7}\text{Be}$ neutron capture cross section at the n_TOF facility at CERN. Physical Review C, 2018, 97, .	7.8	58
24	Physical neutron capture cross section of $^{33}\text{S}$ at the CERN n_TOF facility in the energy region from 1 eV to 700 keV. Physical Review C, 2017, 95, .	2.9	8
25	Neutron spectroscopy of $^{26}\text{Mg}$ states: Constraining the stellar neutron source $^{22}\text{Ne}(\hat{n},n)^{25}\text{Mg}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 1-6.	4.1	32
26	Neutron capture cross section measurement of $^{238}\text{U}$ at the CERN n_TOF facility in the energy region from 1 eV to 700 keV. Physical Review C, 2017, 95, .	2.9	12
27	High-accuracy determination of the neutron flux in the new experimental area n_TOF-EAR2 at CERN. European Physical Journal A, 2017, 53, 1.	2.5	41
28	Validation of the fission yield and decay data libraries with the $^{235}\text{U}$ fission $\beta$ -ray energy spectrum. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 870, 60-63.	1.6	1
29	Measurement of the $^{238}\text{U}(n,\hat{\gamma})$ cross section up to 80 keV with the Total Absorption Calorimeter at the CERN n_TOF facility. Physical Review C, 2017, 96, .	2.9	8
30	$^{7}\text{Be}(n,\hat{\gamma})$ and $^{7}\text{Be}(n,p)$ cross-section measurement for the cosmological lithium problem at the n_TOF facility at CERN. EPJ Web of Conferences, 2017, 146, 01012.	0.3	1
31	The $^{236}\text{U}$ neutron capture cross-section measured at the n_TOF CERN facility. EPJ Web of Conferences, 2017, 146, 11054.	0.3	1
32	Characterization of the n_TOF EAR-2 neutron beam. EPJ Web of Conferences, 2017, 146, 03020.	0.3	1
33	High accuracy $^{234}\text{U}(n,f)$ cross section in the resonance energy region. EPJ Web of Conferences, 2017, 146, 04057.	0.3	1
34	Analysis of C/E results of fission rate ratio measurements in several fast lead VENUS-F cores. EPJ Web of Conferences, 2017, 146, 06007.	0.3	6
35	Americium-241 integral radiative capture cross section in over-moderated neutron spectrum from pile oscillator measurements in the Minerve reactor. EPJ Web of Conferences, 2017, 146, 06016.	0.3	2
36	Comparative study on neutron data in integral experiments of MYRRHA mockup critical cores in the VENUS-F reactor. EPJ Web of Conferences, 2017, 146, 06019.	0.3	9



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55	High-accuracy determination of the neutron flux at n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 799, 90-98.	2.9	24
56	The new vertical neutron beam line at the CERN n_TOF facility design and outlook on the performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 799, 90-98.	1.6	82
57	The nucleosynthesis of heavy elements in Stars: the key isotope $^{25}\text{Mg}$ . EPJ Web of Conferences, 2014, 66, 07016.	0.3	1
58	Measurements of neutron cross sections for advanced nuclear energy systems at n_TOF (CERN). EPJ Web of Conferences, 2014, 66, 10001.	0.3	2
59	Neutron cross-sections for advanced nuclear systems: the n_TOF project at CERN. EPJ Web of Conferences, 2014, 79, 01003.	0.3	0
60	$^{238}\text{U}(n, \hat{1}^3)$ reaction cross section measurement with C6D6 detectors at the n_TOF CERN facility.. EPJ Web of Conferences, 2014, 66, 03061.	0.3	1
61	Experimental neutron capture data of $^{58}\text{Ni}$ from the CERN n_TOF facility. Physical Review C, 2014, 89, 054607.	2.9	28
62	Measurement of the $^{12}\text{C}(n, p)^{12}\text{B}$ cross section at n_TOF at CERN by in-beam activation analysis. Physical Review C, 2014, 90, 054607.	2.9	31
63	Measurement and analysis of the $^{241}\text{Am}$ cross section at n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 743, 79-85.	2.9	14
64	Measurement of the angular distribution of fission fragments using a PPAC assembly at CERN n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 743, 79-85.	1.6	28
66	Review and comparison of effective delayed neutron fraction calculation methods with Monte Carlo codes. Annals of Nuclear Energy, 2014, 65, 402-410.	1.8	7
67	Neutron Capture Reactions on Fe and Ni Isotopes for the Astrophysical s-process. Nuclear Data Sheets, 2014, 120, 201-204.	2.2	2
68	The $(n, \hat{1}^{\pm})$ Reaction in the s-process Branching Point $^{59}\text{Ni}$ . Nuclear Data Sheets, 2014, 120, 208-210.	2.2	14
69	GEANT4 simulation of the neutron background of the C6D6 set-up for capture studies at n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 760, 57-67.	1.6	31
70	Neutron cross-sections for advanced nuclear systems: the n_TOF project at CERN. EPJ Web of Conferences, 2014, 79, 01003.	0.3	0
71	High-accuracy determination of the neutron flux at n_TOF. European Physical Journal A, 2013, 49, 1.	2.5	71
72	Performance of the neutron time-of-flight facility n_TOF at CERN. European Physical Journal A, 2013, 49, 1.	2.5	205

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73	Evaluation of the criticality constant from Pulsed Neutron Source measurements in the Yalina-Booster subcritical assembly. <i>Annals of Nuclear Energy</i> , 2013, 53, 40-49.	1.8	13
74	A new CVD diamond mosaic-detector for (n, $\gamma$ ) reactions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 732, 190-194.	1.6	26
75	Validation of ADS reactivity monitoring techniques in the Yalina-Booster subcritical assembly. <i>Annals of Nuclear Energy</i> , 2013, 53, 331-341.	1.8	20
76	Neutron Capture Cross Section of Unstable $^{63}\text{Ni}$ : Implications for Stellar Nucleosynthesis. <i>Physical Review Letters</i> , 2013, 110, 022501.	7.8	44
77	Neutron research at the n_TOF facility (CERN): Results and perspectives. , 2013, , .		0
78	Angular distribution in the neutron-induced fission of actinides. <i>EPJ Web of Conferences</i> , 2013, 62, 08003.	0.3	1
79	Detector Dead Time Determination and Optimal Counting Rate for a Detector Near a Spallation Source or a Subcritical Multiplying System. <i>Science and Technology of Nuclear Installations</i> , 2012, 2012, 1-7.	0.8	10
80	Present status and future programs of the n_TOF experiment. <i>EPJ Web of Conferences</i> , 2012, 21, 03001.	0.3	2
81	Simultaneous measurement of neutron-induced capture and fission reactions at CERN. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	19
82	Neutron measurements for advanced nuclear systems: The n_TOF project at CERN. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 3251-3257.	1.4	10
83	Auto-correlation and variance-to-mean measurements in a subcritical core obeying multiple alpha-modes. <i>Annals of Nuclear Energy</i> , 2011, 38, 194-202.	1.8	23
84	The Neutron Time-Of-Flight Facility n_TOF At CERN: Phase II. , 2011, , .		1
85	Past, Present and Future of the n_TOF Facility at CERN. <i>Journal of the Korean Physical Society</i> , 2011, 59, 1620-1623.	0.7	4
86	Improved Neutron Capture Cross Section Measurements with the n_TOF Total Absorption Calorimeter. <i>Journal of the Korean Physical Society</i> , 2011, 59, 1813-1816.	0.7	3
87	The Role of Fe and Ni for S-Process Nucleosynthesis and Innovative Nuclear Technologies. <i>Journal of the Korean Physical Society</i> , 2011, 59, 2106-2109.	0.7	0
88	Characterization of the New n_TOF Neutron Beam: Fluence, Profile and Resolution. <i>Journal of the Korean Physical Society</i> , 2011, 59, 1624-1627.	0.7	0
89	Spatial and Source Multiplication Effects on the Area Ratio Reactivity Determination Method in a Strongly Heterogeneous Subcritical System. <i>Nuclear Science and Engineering</i> , 2010, 166, 134-144.	1.1	13