Vicente BÃ©cares

List of Publications by Year
in descending order

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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	Performance of the neutron time-of-flight facility n_TOF at CERN. European Physical Journal A, 2013, 49, 1.	2.5	205
2	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Be</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mrow><mml:mi>n</mml:mi></mml:mrow><mml:mo>,</mml:mo><mml:mrow><mml:mi>Î±</mml:mi></mml:m	7.8	94
3	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
4	High-accuracy determination of the neutron flux at n_TOF. European Physical Journal A, 2013, 49, 1.	2.5	71
5	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Be</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo stretchy="false">(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>p</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /(	7.8	58
6	Neutron Capture Cross Section of Unstable<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Ni</mml:mi><mml:mprescripts /><mml:none /><mml:mn>63</mml:mn></mml:mmultiscripts></mml:math>: Implications for Stellar Nucleosynthesis. Physical Review Letters, 2013, 110, 022501.	7.8	44
7	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
8	Neutron spectroscopy of 26Mg states: Constraining the stellar neutron source 22Ne(Î±,n)25Mg. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 1-6.	4.1	32
9	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ni</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>62</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math) Tj ETQq1 1 0.784314 rgBT /O	2.9	31
10	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
11	Experimental neutron capture data of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow /><mml:mn>58</mml:mn></mml:msup></mml:math>Ni from the CERN n_TOF facility. Physical Review C, 2014, 89, .	2.9	28
12	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
13	A new CVD diamond mosaic detector for (n, <mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 277 Td (xmlns:mml= "http://w at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators,	1.6	26
14	Nuclear data activities at the n_TOF facility at CERN. European Physical Journal Plus, 2016, 131, 1.	2.6	26
15	Measurement and analysis of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Am</mml:mi><mml:mprescripts /><mml:none /><mml:mn>241</mml:mn></mml:mmultiscripts></mml:math>(<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 127 Td (x	2.9	25
16	High-accuracy determination of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">U</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>238</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>/</mml:mo><mml:mmultiscripts><mml:mi mathvariant="normal">U</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>235</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>fission	2.9	24
17	Auto-correlation and variance-to-mean measurements in a subcritical core obeying multiple alpha-modes. Annals of Nuclear Energy, 2011, 38, 194-202.	1.8	23
18	Experimental setup and procedure for the measurement of the 7Be(n,Î±)Î± reaction at n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 197-205.	1.6	21

#	ARTICLE	IF	CITATIONS
19	Radiative neutron capture on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pu</mml:mi><mml:mprescripts /><mml:none /><mml:mn>242</mml:mn></mml:mmultiscripts></mml:math> in the resonance region at the CERN n_TOF-EAR1 facility. Physical Review C, 2018, 97, .	2.9	21
20	Neutron Capture on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:math> -Process Branching Point <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Tm</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>171</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> vi	2.8	21
21	Validation of ADS reactivity monitoring techniques in the Yalina-Booster subcritical assembly. Annals of Nuclear Energy, 2013, 53, 331-341.	1.8	20
22	Simultaneous measurement of neutron-induced capture and fission reactions at CERN. European Physical Journal A, 2012, 48, 1.	2.5	19
23	Measurement of the12C(n,p)12Bcross section at n_TOF at CERN by in-beam activation analysis. Physical Review C, 2014, 90, .	2.9	14
24	The (n, Î±) Reaction in the s-process Branching Point 59Ni. Nuclear Data Sheets, 2014, 120, 208-210.	2.2	14
25	Fission Fragment Angular Distribution measurements of235U and238U at CERN n_TOF facility. EPJ Web of Conferences, 2016, 111, 10002.	0.3	14
26	Spatial and Source Multiplication Effects on the Area Ratio Reactivity Determination Method in a Strongly Heterogeneous Subcritical System. Nuclear Science and Engineering, 2010, 166, 134-144.	1.1	13
27	Evaluation of the criticality constant from Pulsed Neutron Source measurements in the Yalina-Booster subcritical assembly. Annals of Nuclear Energy, 2013, 53, 40-49.	1.8	13
28	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mn>70</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>Î³</mml:mi></mml:mrow></mml:math> cross section up to 300 keV at the CERN n_TOF facility. Physical Review C, 2019, 100, .	2.9	13
29	Neutron capture cross section measurement ofU238at the CERN n_TOF facility in the energy region from 1 eV to 700 keV. Physical Review C, 2017, 95, .	2.9	12
30	Measurement of the 154Gd(n,Î³) cross section and its astrophysical implications. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135405.	4.1	12
31	Measurement of 73Ge(n,Î³) cross sections and implications for stellar nucleosynthesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 458-465.	4.1	11
32	Neutron measurements for advanced nuclear systems: The n_TOF project at CERN. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3251-3257.	1.4	10
33	Detector Dead Time Determination and Optimal Counting Rate for a Detector Near a Spallation Source or a Subcritical Multiplying System. Science and Technology of Nuclear Installations, 2012, 2012, 1-7.	0.8	10
34	Integral measurement of the 12C(n, p)12B reaction up to 10 GeV. European Physical Journal A, 2016, 52, 1.	2.5	9
35	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
36	Measurement and analysis of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Am</mml:mi><mml:mprescripts /><mml:none /><mml:mn>241</mml:mn></mml:mmultiscripts></mml:math>neutron capture cross section at the n_TOF facility at CERN. Physical Review C, 2018, 97, .	2.9	9

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37	Measurement of the U238(n,Î³) 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
38	Measurement and resonance analysis of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">S</mml:mi><mml:mprescripts /><mml:none /><mml:mn>33</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>Î±</mml:mi><mml:none /><mml:mn>30</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> cross section at the CERN n_TOF facility in the ener. Physical Review C, 2018, 97, .	2.9	8
39	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
40	Measurement of the neutron capture cross section of the fissile isotope 235U with the CERN n_TOF total absorption calorimeter and a fission tagging based on micromegas detectors. EPJ Web of Conferences, 2017, 146, 11021.	0.3	7
41	Investigation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Pu</mml:mi><mml:mprescripts /><mml:none /><mml:mn>240</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>f</mml:mi> reaction at the n_TOF/EAR2 facility in the 3 meV–6 MeV range. Physical Review C, 2020, 102, .	2.9	7
42	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
43	Measurement of the240Pu(n,f) cross-section at the CERN n_TOF facility: First results from experimental area II (EAR-2). EPJ Web of Conferences, 2017, 146, 04030.	0.3	6
44	Past, Present and Future of the n_TOF Facility at CERN. Journal of the Korean Physical Society, 2011, 59, 1620-1623.	0.7	4
45	Measurement of the²⁴⁴Cm capture cross sections at both CERN n_TOF experimental areas. EPJ Web of Conferences, 2020, 239, 01034.	0.3	4
46	Monte Carlo MSM correction factors for control rod worth estimates in subcritical and near-critical fast neutron reactors. EPJ Nuclear Sciences & Technologies, 2015, 1, 2.	0.7	3
47	The CERN n_TOF facility: a unique tool for nuclear data measurement. EPJ Web of Conferences, 2016, 122, 05001.	0.3	3
48	Dissemination of data measured at the CERN n_TOF facility. EPJ Web of Conferences, 2017, 146, 07002.	0.3	3
49	The³³S(n,Î±)³⁰Si cross section measurement at n_TOF-EAR2 (CERN): From 0.01 eV to the resonance region. EPJ Web of Conferences, 2017, 146, 08004.	0.3	3
50	Measurement of the 244Cm and 246Cm neutron-induced capture cross sections at the n_TOF facility. EPJ Web of Conferences, 2019, 211, 03008.	0.3	3
51	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
52	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mn>76</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>Î³</mml:mi> cross section at the n_TOF facility at CERN. Physical Review C, 2021, 104, .	2.9	3
53	Present status and future programs of the n_TOF experiment. EPJ Web of Conferences, 2012, 21, 03001.	0.3	2
54	Measurements of neutron cross sections for advanced nuclear energy systems at n_TOF (CERN). EPJ Web of Conferences, 2014, 66, 10001.	0.3	2

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55	Neutron Capture Reactions on Fe and Ni Isotopes for the Astrophysical s-process. Nuclear Data Sheets, 2014, 120, 201-204.	2.2	2
56	Towards the high-accuracy determination of the238U fission cross section at the threshold region at CERN â€“ n_TOF. EPJ Web of Conferences, 2016, 111, 02002.	0.3	2
57	Experiments with neutron beams for the astrophysicalsprocess. Journal of Physics: Conference Series, 2016, 665, 012020.	0.4	2
58	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
59	The measurement programme at the neutron time-of-flight facility n_TOF at CERN. EPJ Web of Conferences, 2017, 146, 11002.	0.3	2
60	Preparation and characterization ofÂ33S samples forÂ33S(n,<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 557 Td (xmlns:mml="htt 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
61	Study of the photon strength functions and level density in the gamma decay of the n + 234U reaction. EPJ Web of Conferences, 2019, 211, 02002.	0.3	2
62	Study of photon strength functions of241Pu and245Cm from neutron capture measurements. EPJ Web of Conferences, 2020, 239, 01015.	0.3	2
63	Neutron capture cross section measurements of ²⁴¹Am at the n_TOF facility. EPJ Web of Conferences, 2020, 239, 01009.	0.3	2
64	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Zr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>92</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>Î³</mml:mi> and (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 367 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi>	2.9	2
65	measureme The Neutron Time-Of-Flight Facility nÌ±TOF At CERN: Phase II. , 2011, , .		1
66	Angular distribution in the neutron-induced fission of actinides. EPJ Web of Conferences, 2013, 62, 08003.	0.3	1
67	The nucleosynthesis of heavy elements in Stars: the key isotope25Mg. EPJ Web of Conferences, 2014, 66, 07016.	0.3	1
68	238U(n,Î³) reaction cross section measurement with C6D6detectors at the n_TOF CERN facility.. EPJ Web of Conferences, 2014, 66, 03061.	0.3	1
69	Validation of the fission yield and decay data libraries with the 10Âs-delayed235UfissionÎ³-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
70	7Be(n,Î±) and 7Be(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
71	The 236U neutron capture cross-section measured at the n_TOF CERN facility. EPJ Web of Conferences, 2017, 146, 11054.	0.3	1
72	Characterization of the n_TOF EAR-2 neutron beam. EPJ Web of Conferences, 2017, 146, 03020.	0.3	1

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73	High accuracy 234U(n,f) cross section in the resonance energy region. EPJ Web of Conferences, 2017, 146, 04057.	0.3	1
74	Measurement of the 241Am neutron capture cross section at the n_TOF facility at CERN. EPJ Web of Conferences, 2017, 146, 11022.	0.3	1
75	Measurement of the radiative capture cross section of the s-process branching points 204Tl and 171Tm at the n_TOF facility (CERN). EPJ Web of Conferences, 2018, 178, 03004.	0.3	1
76	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> ratio and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo> cross section of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="norm	2.9	1
77	Optimization under uncertainty for robust fuel cycle analyses. International Journal of Energy Research, 2021, 45, 6139-6151.	4.5	1
78	Nuclear Data for the Thorium Fuel Cycle and the Transmutation of Nuclear Waste. , 2016, , 207-214.		1
79	Constraints on the dipole photon strength for the odd uranium isotopes. Physical Review C, 2022, 105, .	2.9	1
80	Neutron research at the N_TOF facility (CERN): Results and perspectives. , 2013, , .		0
81	Neutron cross-sections for advanced nuclear systems: the n_TOF project at CERN. EPJ Web of Conferences, 2014, 79, 01003.	0.3	0
82	Experimental neutron capture data of 58Ni from the CERN n_TOF facility. EPJ Web of Conferences, 2015, 93, 02009.	0.3	0
83	High precision measurement of the radiative capture cross section of238U at the n_TOF CERN facility. EPJ Web of Conferences, 2017, 146, 11028.	0.3	0
84	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
85	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
86	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
87	Measurement of the ^{244} 244 Cm and ^{246} 246 Cm Neutron-Induced Cross Sections at the n_TOF Facility. Springer Proceedings in Physics, 2019, , 117-122.	0.2	0
88	Measurement of the 242Pu(n, Î³) cross section from thermal to 500 keV at the Budapest research reactor and CERN n_TOF-EAR1 facilities. EPJ Web of Conferences, 2020, 239, 01019.	0.3	0
89	Neutron cross-sections for advanced nuclear systems: the n_TOF project at CERN. EPJ Web of Conferences, 2014, 79, 01003.	0.3	0