

Francisco Alvarez-Velarde

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3377280/publications.pdf>

Version: 2024-02-01

84
papers

1,745
citations

236925
25
h-index

289244
40
g-index

86
all docs

86
docs citations

86
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	Blind Benchmark Exercise for Spent Nuclear Fuel Decay Heat. Nuclear Science and Engineering, 2022, 196, 1125-1145.	1.1	3
2	Optimization under uncertainty for robust fuel cycle analyses. International Journal of Energy Research, 2021, 45, 6139-6151.	4.5	1
3	Quantification of the differences introduced by nuclear fuel cycle simulators in advanced scenario studies. Annals of Nuclear Energy, 2020, 137, 107160.	1.8	5
4	The joint evaluated fission and fusion nuclear data library, JEFF-3.3. European Physical Journal A, 2020, 56, 1.	2.5	318
5	Sparse Polynomial Chaos expansion for advanced nuclear fuel cycle sensitivity analysis. Annals of Nuclear Energy, 2020, 142, 107430.	1.8	6
6	Impact of nuclear data evaluations on data assimilation for an LFR. EPJ Web of Conferences, 2020, 239, 13007.	0.3	0
7	Nuclear data analyses for improving the safety of advanced lead-cooled reactors. EPJ Web of Conferences, 2019, 211, 05002.	0.3	3
8	Uncertainty quantification on advanced fuel cycle scenario simulations applying local and global methods. Annals of Nuclear Energy, 2019, 124, 349-356.	1.8	6
9	Sensitivity methods for effective delayed neutron fraction and neutron generation time with summon. Annals of Nuclear Energy, 2019, 126, 410-418.	1.8	11
10	Stress-testing the ALFRED design – Part I: Impact of nuclear data uncertainties on Design Extension Conditions transients. Progress in Nuclear Energy, 2018, 106, 372-386.	2.9	6
11	Stress-testing the ALFRED design - Part II: Quantification of uncertainties on the fuel assembly temperature field. Progress in Nuclear Energy, 2018, 105, 301-308.	2.9	3
12	Validation of the fission yield and decay data libraries with the 10Ås-delayed ^{235}U fission γ -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
13	Nuclear data sensitivity and uncertainty analysis of effective neutron multiplication factor in various MYRRHA core configurations. Annals of Nuclear Energy, 2017, 101, 330-338.	1.8	21
14	Benchmarking and validation activities within JEFF project. EPJ Web of Conferences, 2017, 146, 06004.	0.3	31
15	Dissemination of data measured at the CERN n_TOF facility. EPJ Web of Conferences, 2017, 146, 07002.	0.3	3
16	Neutron-induced nuclear data for the MYRRHA fast spectrum facility. EPJ Web of Conferences, 2017, 146, 09007.	0.3	1
17	Economics and Resources Analysis of the Potential Use of Reprocessing Options by a Medium Sized Nuclear Reactor Fleet. Energies, 2017, 10, 690.	3.1	0
18	Cross check of the new economic and mass balance features of the fuel cycle scenario code TR_EVOL. EPJ Nuclear Sciences & Technologies, 2016, 2, 33.	0.7	8

#	ARTICLE	IF	CITATIONS
19	Towards the high-accuracy determination of the ^{238}U fission cross section at the threshold region at CERN n_TOF. EPJ Web of Conferences, 2016, 111, 02002.	0.3	2
20	High accuracy $^{235}\text{U}(\text{n},\text{f})$ data in the resonance energy region. EPJ Web of Conferences, 2016, 111, 02003.	0.3	7
21	Neutron-induced fission cross section of Np in the keV to MeV range at High- CERN n_TOF facility. EPJ Web of Conferences, 2016, 93, .	2.9	11
22	High-accuracy determination of the ^{237}U fission cross section of ^{238}U in the keV to MeV range at High- CERN n_TOF facility. EPJ Web of Conferences, 2016, 93, .	2.9	24
23	Neutron-induced fission cross section of ^{234}U measured at the CERN n_TOF facility. Physical Review C, 2014, 89, .	2.9	14
24	Measurement and analysis of the neutron-induced fission cross section of ^{235}U measured at the CERN n_TOF facility. Physical Review C, 2014, 90, .	2.9	26
25	Validation of the burn-up code EVOLOCODE 2.0 with PWR experimental data and with a Sensitivity/Uncertainty analysis. Annals of Nuclear Energy, 2014, 73, 175-188.	1.8	16
26	Analysis of advanced European nuclear fuel cycle scenarios including transmutation and economic estimates. Annals of Nuclear Energy, 2014, 70, 240-247.	1.8	11
27	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
28	A comparative study of Monte Carlo-coupled depletion codes applied to a Sodium Fast Reactor design loaded with minor actinides. Annals of Nuclear Energy, 2013, 57, 32-40.	1.8	12
29	Monte Carlo analysis of the long-lived fission product neutron capture rates at the Transmutation by Adiabatic Resonance Crossing (TARC) experiment. Nuclear Engineering and Design, 2013, 254, 148-153.	1.7	1
30	The reaction up to 8 keV neutron energy. Physical Review C, 2013, 87, .	2.9	39
31	Measurement of resolved resonances of $^{232}\text{Th}(\text{n},\beta^+)$ at the n_TOF facility at CERN. Physical Review C, 2012, 85, .	2.9	23
32	Publisher's Note: Measurement of resolved resonances of $^{232}\text{Th}(\text{n},\beta^+)$. Physical Review C, 2012, 85, .	2.9	39
33	Measurement and resonance analysis of the ^{237}Np neutron capture cross section. Physical Review C, 2012, 85, .	2.9	26
34	Neutron-induced fission cross section of ^{245}Cm : New results from data taken at the time-of-flight facility n_TOF. Physical Review C, 2012, 85, .	2.9	13
35	Neutron-induced fission cross section measurement of ^{233}U , ^{241}Am and ^{243}Am in the energy range 0.5 MeV $\leq E \leq$ 20 MeV at n_TOF at CERN. Physica Scripta, 2012, T150, 014005.	2	5
36	Resonance neutron-capture cross sections of stable magnesium isotopes and their astrophysical implications. Physical Review C, 2012, 85, .	2.9	55

#	ARTICLE	IF	CITATIONS
37	Astrophysics at n_TOF Facility at CERN. Journal of Physics: Conference Series, 2011, 312, 042024.	0.4	0
38	Neutron-induced fission cross-section of ^{233}U in the energy range $0.5 < \text{En} < 20$ MeV. European Physical Journal A, 2011, 47, 1.	2.5	15
39	Measurement of the neutron-induced fission cross-section of ^{243}Am relative to ^{235}U from 0.5 to 20 MeV. European Physical Journal A, 2011, 47, 1.	2.5	11
40	The $^{237}\text{Np}(n,f)$ cross section at the CERN n-TOF facility., 2011, , . $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 96 \langle / \text{mml:mn} \rangle \langle / \text{mml:msup} \rangle \langle / \text{mml:math} \rangle \text{Zr}(\text{mml:math}) \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")}$	1	
41	Neutron capture on ^{238}U (n,f) cross section from 170 meV to 2 MeV at the CERN n_TOF facility. Physical Review C, 2011, 84, . $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Zr} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 94 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle$: Resonance parameters and Maxwellian-averaged cross sections.	2.9	17
42	Measurement of the $^{236}\text{U}(n,f)$ cross section from 170 meV to 2 MeV at the CERN n_TOF facility. Physical Review C, 2011, 84, . $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Au} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 197 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle (\text{mml:math}) \text{Tj ETQq0 0.0 rgBT /Overlock 10 Tf 50 587 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")}$	2.9	24
43	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
44	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
45	237Np(n,f) Cross Section: New Data and Present Status. Journal of the Korean Physical Society, 2011, 59, 1908-1911.	0.7	2
46	Fission Cross-section Measurements of ^{233}U , ^{245}Cm and $^{241,243}\text{Am}$ at CERN n_TOF Facility. Journal of the Korean Physical Society, 2011, 59, 1912-1915.	0.7	3
47	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
48	Nuclear data requirements for the ADS conceptual design EFIT: Uncertainty and sensitivity study. Annals of Nuclear Energy, 2010, 37, 1570-1579.	1.8	9
49	Neutron cross-sections for next generation reactors: New data from n_TOF. Applied Radiation and Isotopes, 2010, 68, 643-646.	1.5	7
50	Measurements of high-energy neutron-induced fission of natPb and ^{209}Bi . EPJ Web of Conferences, 2010, 8, 07009. $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Os} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 100 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle$	0.3	2
51	cross sections of ^{235}U , ^{238}Np and $^{241,243}\text{Am}$ at CERN n_TOF Facility. European Physical Journal A, 2011, 47, 1. $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Au} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 197 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle (\text{mml:math}) \text{Tj ETQq0 0.0 rgBT /Overlock 10 Tf 50 587 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")}$	2.9	36
52	cross sections of ^{235}U , ^{238}Np and $^{241,243}\text{Am}$ at CERN n_TOF Facility. European Physical Journal A, 2011, 47, 1. $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Au} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 197 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle (\text{mml:math}) \text{Tj ETQq0 0.0 rgBT /Overlock 10 Tf 50 587 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")}$	2.9	55

#	ARTICLE		IF	CITATIONS
73	Measurement of the $\text{Sm}^{151}(n,\bar{\nu})$ 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	
74	New measurement of neutron capture resonances in Bi^{209} . Physical Review C, 2006, 74, .	2.9	46	
75	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	
76	Resonance capture cross section of Pb^{207} . Physical Review C, 2006, 74, .	2.9	32	
77	Measurement of the $^{151}\text{Sm}(n,\bar{\nu})^{152}\text{Sm}$ cross section at n_TOF. Nuclear Physics A, 2005, 758, 533-536.	1.5	7	
78	Neutron capture cross section measurements for nuclear astrophysics at CERN n_TOF. Nuclear Physics A, 2005, 758, 501-504.	1.5	7	
79	Measurements of the $^{90,91,92,94,96}\text{Zr}(n, \bar{\nu})$ cross-sections at n_TOF. Nuclear Physics A, 2005, 758, 573-576.	1.5	2	
80	Neutron Capture Cross Sections for the Re/Os Clock. AIP Conference Proceedings, 2005, , .	0.4	1	
81	New Measurement of the Capture Cross Section of Bismuth and Lead Isotopes. AIP Conference Proceedings, 2005, , .	0.4	0	
82	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	
83	Neutron Capture Cross Section Measurement of Sm^{151} at the CERN Neutron Time of Flight Facility (n_TOF). Physical Review Letters, 2004, 93, 161103.	7.8	65	
84	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	