

Beatriz Fernandez

List of Publications by Year in descending order

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124
papers

2,348
citations

172457

29
h-index

233421

45
g-index

128
all docs

128
docs citations

128
times ranked

1645
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the Dipole Polarizability of the Unstable Neutron-Rich Nucleus ^{111}Bi . Physical Review Letters, 2007, 99, 042502.	7.8	155
2	Direct Mass Measurements of ^{111}Bi . Physical Review Letters, 2007, 99, 062502.	7.8	121
3	Measurement of the complete nuclide production and kinetic energies of the system $^{136}\text{Xe} + \text{hydrogen}$ at 136 MeV. Physical Review C, 2007, 75, 014607.	7.8	94
4	Spallation residues in the reaction $^{56}\text{Fe} + p$ at 0.3A, 0.5A, 0.75A, 1.0A, and 1.5A GeV. Physical Review C, 2007, 75, 014607.	2.9	85
5	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
6	Measurement of the complete nuclide production and kinetic energies of the system $^{136}\text{Xe} + \text{hydrogen}$ at 136 MeV. Physical Review C, 2007, 75, 014607.	2.9	79
7	Isotopic yield distributions of transfer- and fusion-induced fission from ^{238}U projectiles at 12 MeV. Physical Review C, 2011, 83, 014607.	2.9	76
8	Isotopic yield distributions of transfer- and fusion-induced fission from ^{238}U projectiles at 12 MeV. Physical Review C, 2011, 83, 014607.	2.9	66
9	Resonance State in $^{7}\text{Li} + \text{Be}$. Physical Review C, 2011, 83, 014607.	7.8	58
10	Characterization of the scission point from fission-fragment velocities. Physical Review C, 2015, 92, 014607.	2.9	55
11	Accurate isotopic fission yields of electromagnetically induced fission of ^{238}U measured in inverse kinematics at 238 MeV. Physical Review C, 2017, 95, 014607.	2.9	49
12	Resonance State in $^{7}\text{Li} + \text{H}$. Physical Review Letters, 2007, 99, 062502.	7.8	48
13	TIARA: A large solid angle silicon array for direct reaction studies with radioactive beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 614, 439-448.	1.6	48
14	Transfer reactions in inverse kinematics: An experimental approach for fission investigations. Physical Review C, 2014, 89, 014607.	2.9	48
15	Experimental Study of the Two-Body Spin-Orbit Force in Nuclei. Physical Review Letters, 2014, 112, 042502.	7.8	46
16	Evaporation residues produced in spallation of ^{208}Pb by protons at. Nuclear Physics A, 2006, 768, 1-21.	1.5	45
17	Low-lying neutron f_7p -shell intruder states in ^{27}Ne . Physical Review C, 2012, 85, 014607.	2.9	45
18	Nuclide cross-sections of fission fragments in the reaction $^{208}\text{Pb} + p$ at 500 MeV. Nuclear Physics A, 2005, 747, 227-267.	1.5	41

#	ARTICLE	IF	CITATIONS
37	Evidence for a New Compact Symmetric Fission Mode in Light Thorium Isotopes. Physical Review Letters, 2020, 124, 202502.	7.8	23
38	Experimental study of resonance states in H	2.9	22
39	Experimental setup and procedure for the measurement of the ${}^7\text{Be}(n, \hat{1}\pm)\hat{1}\pm$ 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
40	Radiative neutron capture on Pu in the resonance region at the CERN n_TOF-EAR1 facility. Physical Review C, 2018, 97, 014607.	2.9	21
41	Process Branching Point Tm	2.9	21
42	Measurement of the ${}^{235}\text{U}(n, f)$ cross section relative to the ${}^6\text{Li}(n, t)$ and ${}^{10}\text{B}(n, \alpha)$ standards from thermal to 170 keV neutron energy range at n_TOF. European Physical Journal A, 2019, 55, 1.	2.5	20
43	First Direct Measurement of Isotopic Fission-Fragment Yields of U239. Physical Review Letters, 2019, 123, 092503.	7.8	20
44	Insight into excitation energy and structure effects in fission from isotopic information in fission yields. Physical Review C, 2019, 99, .	2.9	18
45	Evolution of single-particle strength in neutron-rich ${}^{71}\text{Cu}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 306-310.	4.1	17
46	Observation of isoscalar multipole strengths in exotic doubly-magic ${}^{56}\text{Ni}$ in inelastic $\hat{1}\pm$ scattering in inverse kinematics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 371-375.	4.1	16
47	Production cross-sections of neutron-rich Pb and Bi isotopes in the fragmentation of ${}^{238}\text{U}$. European Physical Journal A, 2009, 42, 485.	2.5	15
48	Quasifree (n, p) reaction on ${}^{14}\text{N}$ at ${}^{14}\text{N}$ resonance. Physical Review C, 2018, 97, 014607.	2.9	15
49	Measurement of the ${}^{136}\text{Xe}(n, p)$ reaction at n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 857, 27-33.	2.9	14
50	Experimental setup and procedure for the measurement of the ${}^7\text{Be}(n, p){}^7\text{Li}$ reaction at n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 887, 27-33.	1.6	14
51	Re-examining the transition into the $N = 20$ island of inversion: Structure of ${}^{30}\text{Mg}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 124-129.	4.1	14
52	Scission configuration of ${}^{239}\text{Pu}$ from yields and kinetic information of fission. Physical Review C, 2020, 101, .	2.9	14
53	Measurement of the ${}^{70}\text{Ge}(n, p)$ reaction at n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 900, .	2.9	13
54	Alpha cluster structure in ${}^{56}\text{Ni}$. Journal of Physics: Conference Series, 2013, 436, 012010.	0.4	12

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55	<p>Extracting the spectral signature of \hat{L}_{\pm} clustering in ^{44}Ti</p> <p>Physics Letters B, 2020, 811, 135939.</p>	2.9	12
56	<p>Low-lying single-particle structure of ^{17}C and the $N=14$ sub-shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135939.</p>	4.1	12
57	<p>the ^{24}Si</p>		

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73	12C+p resonant elastic scattering in the Maya active target. European Physical Journal A, 2015, 51, 1.	2.5	5
74	Dependence of Fission-Fragment Properties On Excitation Energy For Neutron-Rich Actinides. EPJ Web of Conferences, 2016, 111, 10001.	0.3	5
75	Accurate measurements of fission-fragment yields in $^{234,235,236,238}\text{U}(\hat{1}^3, f)$ with the SOFIA set-up. EPJ Web of Conferences, 2016, 111, 08001.	0.3	5
76	First inverse-kinematics fission measurements in a gaseous active target. Nuclear Physics A, 2017, 958, 246-265.	1.5	5
77	Single particle structure of exotic nuclei with transfer reactions. Progress in Particle and Nuclear Physics, 2007, 59, 389-391.	14.4	4
78	Minor actinide fission induced by multi-nucleon transfer reaction in inverse kinematics. EPJ Web of Conferences, 2010, 2, 07001.	0.3	4
79	Coulomb excitation of exotic nuclei at the R3B-LAND setup. Journal of Physics: Conference Series, 2013, 420, 012072.	0.4	4
80	Title is missing!. Acta Physica Polonica B, 2011, 42, 541.	0.8	3
81	Evolution of isotopic fission-fragment yields with excitation energy. EPJ Web of Conferences, 2012, 31, 00025.	0.3	3
82	Fission Yields of Minor Actinides at Low Energy Through Multi-nucleon Transfer Reactions of ^{238}U on ^{12}C . Acta Physica Polonica B, 2015, 46, 443.	0.8	3
83	Spectroscopic study of the exotic nucleus ^{25}P . Physical Review C, 2015, 91, ..	2.9	3
84	The CERN n_TOF facility: a unique tool for nuclear data measurement. EPJ Web of Conferences, 2016, 122, 05001.	0.3	3
85	The SOFIA experiment: Measurement of ^{236}U fission fragment yields in inverse kinematics. EPJ Web of Conferences, 2016, 122, 01006.	0.3	3
86	Dissemination of data measured at the CERN n_TOF facility. EPJ Web of Conferences, 2017, 146, 07002.	0.3	3
87	The $^{33}\text{S}(n, \hat{1}^{\pm})^{30}\text{Si}$ 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
88	Validation of the energy-loss response of ^{16}O particles in iC4H10 with ACTARSim. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 125-132.	1.6	3
89	Investigating the intra-nuclear cascade process using the reaction ^{136}Xe on deuterium at 500 MeV. EPJ Web of Conferences, 2010, 8, 07012.	0.3	2
90	Study of $^{60}\text{Fe}(n, \hat{1}^3)^{61}\text{Fe}$ reaction of astrophysical interest via $d(^{60}\text{Fe}, p\hat{1}^3)$ indirect reaction. , 2010, , .		2

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91	Experimental study of high-lying states in Mg28 using the resonant elastic scattering of $\hat{1}\pm$ particles. Physical Review C, 2016, 94, .	2.9	2
92	The measurement programme at the neutron time-of-flight facility n_TOF at CERN. EPJ Web of Conferences, 2017, 146, 11002.	0.3	2
93	Excitation-energy influence at the scission configuration. EPJ Web of Conferences, 2017, 146, 04019.	0.3	2
94	Fission fragment yields from heavy-ion-induced reactions measured with a fragment separator. European Physical Journal A, 2018, 54, 1.	2.5	2
95	A compact fission detector for fission-tagging neutron capture experiments with radioactive fissile isotopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 969, 163981.	1.6	2
96	Momentum distributions of projectile spectators: a new tool to investigate the equation of state of nuclear matter. Nuclear Physics A, 2004, 734, 609-612.	1.5	1
97	Production cross sections of N sime Z nuclei in the region around A sime 80. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1843-S1846.	3.6	1
98	The search for 7H. European Physical Journal: Special Topics, 2007, 150, 9-12.	2.6	1
99	Publisher's Note: Emergence of the N=16 shell gap in ^{21}O [Phys. Rev. C84, 011301(R) (2011)]. Physical Review C, 2011, 84, .	2.9	1
100	Measurement of the $^{92,93,94,100}\text{Mo}(\hat{1}^3, n)$ reactions by Coulomb Dissociation. Journal of Physics: Conference Series, 2016, 665, 012034.	0.4	1
101	The Nuclear Astrophysics program at n_TOF (CERN). EPJ Web of Conferences, 2017, 165, 01014.	0.3	1
102	$^7\text{Be}(n, \hat{1}\pm)$ 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
103	Characterization of the n_TOF EAR-2 neutron beam. EPJ Web of Conferences, 2017, 146, 03020.	0.3	1
104	New measurement of the $^{242}\text{Pu}(n, \hat{1}^3)$ cross section at n_TOF-EAR1 for MOX fuels: Preliminary results in the RRR. EPJ Web of Conferences, 2017, 146, 11045.	0.3	1
105	The n_TOF facility: Neutron beams for challenging future measurements at CERN. EPJ Web of Conferences, 2017, 146, 03001.	0.3	1
106	Measurement of the radiative capture cross section of the s-process branching points ^{204}Tl and ^{171}Tm at the n_TOF facility (CERN). EPJ Web of Conferences, 2018, 178, 03004.	0.3	1
107	Studies of Single-Particle Structure in the N=16 Region Using Transfer Reactions. AIP Conference Proceedings, 2006, , .	0.4	0
108	Studies of the Single Particle Structure of Exotic Nuclei using Transfer Reactions. AIP Conference Proceedings, 2006, , .	0.4	0

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109	Study of dipole excitations and the single particle structure of neutron rich Ni isotopes. AIP Conference Proceedings, 2008, , .	0.4	0
110	Target dependence in the study of collective modes in stable and exotic Ni nuclei. Journal of Physics: Conference Series, 2010, 202, 012035.	0.4	0
111	Astrophysically Important Reaction Rates For Novae And X-ray Bursts From Proton Breakup At Intermediate Energies. , 2010, , .		0
112	Direct radiative proton capture $^{23}\text{Al}(p,\hat{1}^3)^{24}\text{Si}$ studied via one-proton nuclear breakup of ^{24}Si . Journal of Physics: Conference Series, 2012, 337, 012059.	0.4	0
113	Isotopic Distributions of Fission Fragments from Transfer-induced Fission. Physics Procedia, 2013, 47, 125-130.	1.2	0
114	Complete isotopic distributions of fragments produced in transfer- and fusion-induced reactions. EPJ Web of Conferences, 2013, 62, 06006.	0.3	0
115	Publisher's Note: Measurement of the Isoscalar Monopole Response in the Neutron-Rich Nucleus ^{68}Ni [Phys. Rev. Lett. 113, 032504 (2014)]. Physical Review Letters, 2014, 113, .	7.8	0
116	Single-particle strength in neutron-rich ^{71}Cu from the $(d,^3\text{He})$ proton pick-up reaction. Journal of Physics: Conference Series, 2015, 580, 012012.	0.4	0
117	Alpha clustering in Ti isotopes: $^{40,44,48}\text{Ca} + \hat{1}^3$ resonant scattering. EPJ Web of Conferences, 2016, 113, 08002.	0.3	0
118	Monte carlo simulations of the n_TOF lead spallation target with the Geant4 toolkit: A benchmark study. EPJ Web of Conferences, 2017, 146, 03030.	0.3	0
119	Time-of-flight and activation experiments on ^{147}Pm and ^{171}Tm for astrophysics. EPJ Web of Conferences, 2017, 146, 01007.	0.3	0
120	High-precision measurement of isotopic fission yields of $^{236}\text{U}^*$. EPJ Web of Conferences, 2018, 193, 02001.	0.3	0
121	How sharp is the transition into the N=20 island of inversion for the Mg isotopes ?. Journal of Physics: Conference Series, 2018, 966, 012020.	0.4	0
122	First Measurement of $^{72}\text{Ge}(n,\hat{1}^3)$ at n_TOF. EPJ Web of Conferences, 2018, 184, 02005.	0.3	0
123	Search for resonant states in ^{10}C and ^{11}C and their impact on the primordial ^7Li abundance. Journal of Physics: Conference Series, 2018, 940, 012016.	0.4	0
124	Signature of a possible α -cluster state in $^N=Z$ doubly-magic ^{56}Ni . European Physical Journal A, 2020, 56, 1.	2.5	0