

Martin Alcorta

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

1,874
citations

257450

24
h-index

276875

41
g-index

96
all docs

96
docs citations

96
times ranked

1332
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of Bayesian Optimization to understand the structure of nuclei. Nuclear Instruments & Methods in Physics Research B, 2022, 512, 6-11.	1.4	3
2	Single-particle and dipole excitations in ^{62}Co . Physical Review C, 2022, 105, .	2.5	5
3	Single-particle and collective excitations in ^{66}Zn . Physical Review C, 2022, 105, .	2.5	1
4	Hints of quasi-molecular states in ^{13}B via the study of ^9Li - ^4He elastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 832, 137256.	4.1	3
5	Detailed study of the decay of ^{32}Ar . European Physical Journal A, 2021, 57, 1.	2.5	2
6	First Direct Measurement of an Astrophysical p -Process Reaction Cross Section Using a Radioactive Ion Beam. Physical Review Letters, 2021, 127, 112701.	7.8	6
7	Reaction rate for carbon burning in massive stars. Physical Review C, 2018, 97, .	2.9	69
8	Novel J^π Sequence in ^{78}Ge . Physical Review Letters, 2017, 118, 262502.	7.8	15
9	Independent measurement of the Hoyle state feeding from ^{12}C using Gammasphere. Physical Review C, 2016, 93, .	7.8	53
10	Nuclear Force Imprints Revealed on the Elastic Scattering of Protons with ^{10}C . Physical Review Letters, 2017, 118, 262502.	7.8	23
11	How well do we understand the reaction rate of C burning?. EPJ Web of Conferences, 2017, 163, 00011.	0.3	2
12	Cross section measurements in the $^{12}\text{C}+^{12}\text{C}$ system. EPJ Web of Conferences, 2017, 165, 01015.	0.3	1
13	Scattering of halo nuclei on heavy targets at energies around the Coulomb barrier: The case of ^{11}Be on ^{197}Au . EPJ Web of Conferences, 2017, 163, 00045.	0.3	1
14	Fusion measurements of $^{12}\text{C}+^{12}\text{C}$ at energies of astrophysical interest. EPJ Web of Conferences, 2016, 117, 09011.	0.3	2
15	Stability and synthesis of superheavy elements: Fighting the battle against fission – example of ^{254}No . EPJ Web of Conferences, 2016, 131, 03001.	0.3	1
16	Single-particle and collective excitations in ^{62}Ni . Physical Review C, 2016, 94, .	2.9	12
17	Independent measurement of the Hoyle state feeding from ^{12}C using Gammasphere. Physical Review C, 2016, 93, .	2.9	15
18	Independent measurement of the Hoyle state feeding from ^{12}C using Gammasphere. Physical Review C, 2016, 93, .	2.9	6

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19	Multi-Sampling Ionization Chamber (MUSIC) for measurements of fusion reactions with radioactive beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 799, 197-202.	1.6	32
20	Simultaneous analysis of the elastic scattering and breakup channel for the reaction ${}^6\text{Li} + {}^{208}\text{Pb}$ at energies near the Coulomb barrier. Physical Review C, 2015, 92, .	2.9	29
21	Isomers in ${}^{\text{Rf}}$	7.8	36
22	Shape coexistence in ${}^{67}\text{Co}$, ${}^{66,68,70,72}\text{Ni}$, and ${}^{71}\text{Cu}$. AIP Conference Proceedings, 2015, , .	0.4	3
23	${}^{11}\text{Li}$ structural information from inclusive break-up measurements. EPJ Web of Conferences, 2015, 88, 01003.	0.3	0
24	C+C Fusion Cross Sections Measurements for Nuclear Astrophysics. EPJ Web of Conferences, 2015, 96, 01001.	0.3	4
25	Measurement of ${}^{\text{Na}}$	7.8	13
26	Role of the ${}^{\text{Ti}}$ in the development of collectivity in the ${}^{\text{A}}\text{Ni}$	2.9	10
27	The case of ${}^{\text{Ni}}$ identification of deformed intruder states in semi-magic ${}^{\text{Ni}}$. Physical Review C, 2015, 91, .	2.9	40
28	${}^{\text{B}}$ -decay measurements of ${}^{12}\text{B}$ with Gammasphere. EPJ Web of Conferences, 2014, 66, 07001.	0.3	1
29	Exploring the stability of super heavy elements: First Measurement of the Fission Barrier of ${}^{254}\text{No}$. EPJ Web of Conferences, 2014, 66, 02046.	0.3	2
30	Fission Barrier of Superheavy Nuclei and Persistence of Shell Effects at High Spin: Cases of ${}^{\text{No}}$	7.8	34
31	Stretched states in ${}^{12,13}\text{B}$ with the $(d, \hat{1}\pm)$ reaction. Physical Review C, 2014, 90, .	2.9	6
32	Reaction of the Halo Nucleus ${}^{11}\text{Be}$ on Heavy Targets at Energies Around the Coulomb Barrier. Acta Physica Polonica B, 2014, 45, 375.	0.8	5
33	Measurements of Fusion Reactions of Low-Intensity Radioactive Carbon Beams on ${}^{\text{C}}$	7.8	39
34	Measurement of the Survival Probabilities for Hot Fusion Reactions. Physical Review Letters, 2014, 112, 152702.	7.8	41
35	Direct Measurement of the ${}^{\text{Na}}$	7.8	19
36	Upper limit on the two-photon emission branch for the $02^+ \rightarrow 01^+$ transition in ${}^{98}\text{Mo}$. Physical Review C, 2014, 89, .	2.9	5

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37	Evolution of Single-Particle Energies for N=9 Nuclei at Large N/Z. EPJ Web of Conferences, 2014, 66, 03098.	0.3	0
38	Study of the break-up channel in $^{11}\text{Li} + ^{208}\text{Pb}$ collisions at energies around the Coulomb barrier. Journal of Physics: Conference Series, 2014, 515, 012004.	0.4	0
39	Configuration mixing and relative transition rates between low-spin states in ^{63}Li . http://www.w3.org/1998/Math/MathML display="inline" > $\langle T \rangle$ states in the odd- Z nucleus ^{62}Ga . Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2013, 311, 278-281.	2.9	60
40	Search for intruder states in ^{68}Ni and ^{67}Co . Acta Physica Polonica B, 2013, 44, 371.	4.1	13
41	Breakup on ^{208}Pb at Energies Around the Coulomb Barrier. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 143-146.	7.8	66
42	New AMS method to measure the atom ratio $^{146}\text{Sm}/^{147}\text{Sm}$ for a half-life determination of ^{146}Sm . Nuclear Instruments & Methods in Physics Research B, 2013, 294, 143-146.	1.4	4
43	Structure of ^{14}B and the evolution of N=9 single-neutron isotones. Physical Review C, 2013, 88, .	2.9	19
44	Transfer Reactions and the Structure of Neutron-rich Nuclei. Acta Physica Polonica B, 2013, 44, 349.	0.8	0
45	Search for Intruder States in ^{68}Ni and ^{67}Co . Acta Physica Polonica B, 2013, 44, 371.	0.8	4
46	Publisher's Note: Fusion Reactions with the One-Neutron Halo Nucleus ^{15}C [Phys. Rev. Lett. 106, 172701 (2011)]. Physical Review Letters, 2013, 111, .	7.8	0
47	Single-particle and collective excitations in ^{63}Li . Physical Review C, 2013, 88, .	2.9	16
48	Single-neutron excitations in ^{18}N . Physical Review C, 2013, 88, .	2.9	8
49	Study of the fusion reaction $^{12}\text{C} + ^{12}\text{C}$ at low beam energy. Journal of Physics: Conference Series, 2013, 420, 012120.	0.4	5
50	Observation of ^{10}B decay from a state in ^{10}B at 11.48 MeV. Physical Review C, 2012, 85, .	2.9	9
51	Do Halo Nuclei Follow Rutherford Elastic Scattering at Energies Below the Barrier? The Case of ^{11}Li . Physical Review Letters, 2012, 109, 262701.	7.8	127
52	Precise Determination of the Unperturbed ^{8}B Neutrino Spectrum. Physical Review Letters, 2012, 108, 162502.	7.8	17
53	Low-spin states and the non-observation of a proposed 2202-keV ^{68}Ni isomer. Experimental study of the ^{68}Ni . http://www.w3.org/1998/Math/MathML display="inline" > $\langle T \rangle$ states in the odd- Z nucleus ^{62}Ga . Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2013, 311, 278-281.	2.9	36
54	Experimental study of the ^{68}Ni . http://www.w3.org/1998/Math/MathML display="inline" > $\langle T \rangle$ states in the odd- Z nucleus ^{62}Ga . Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2013, 311, 278-281.	2.9	19

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55	A digital data acquisition system for the detectors at gammasphere. , 2012, , .		3
56	Astrophysical S factor for the $4\text{He}(3\text{He},\hat{1}^3)7\text{Be}$ reaction at medium energies. Journal of Physics: Conference Series, 2012, 337, 012061.	0.4	1
57	HELIOS - progress and possibilities. Journal of Physics: Conference Series, 2012, 381, 012095.	0.4	1
58	Studying X-ray Burst Nucleosynthesis in the Laboratory. Journal of Physics: Conference Series, 2012, 403, 012033.	0.4	2
59	Yrast structure of ^{206}Bi : Isomeric states and one-proton-particle, three-neutron-hole excitations. Physical Review C, 2012, 86, .	2.9	15
60	Scattering of the halo nucleus ^{11}Li and its core ^9Li on ^{208}Pb at energies around the Coulomb barrier. Journal of Physics: Conference Series, 2012, 381, 012085.	0.4	1
61	^{12}C resonances determined from the		

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73	The Spectroscopic study of [³³ Ar.], 2011, , .		0
74	Elastic scattering of [⁹ Li] on [²⁰⁸ Pb] at energies around the Coulomb barrier. , 2011, , .		0
75	Dynamic studies of [¹¹ Li] and its core [⁹ Li] on [²⁰⁸ Pb] near the Coulomb barrier. AIP Conference Proceedings, 2010, , .	0.4	0
76	Detailed \hat{I}^2 -decay study of Ar33. Physical Review C, 2010, 81, .	2.9	17
77	Breakup of ^{12}C resonances into three ^4He particles. Physical Review Letters, 2010, 105, 122501. $C \rightarrow 3^4\text{He}$	2.9	62
78	Matrix analysis of \hat{I}^2 decays of ^{12}C into three ^4He particles. Physical Review Letters, 2010, 105, 122501. $C \rightarrow 3^4\text{He}$	2.9	59
79	Decays of ^{11}Li from the ^{12}C breakup. Physical Review Letters, 2010, 105, 122501. $^{11}\text{Li} \rightarrow ^9\text{Li} + n$	2.9	31
80	A complete kinematics approach to study multi-particle final state reactions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 318-325.	1.6	19
81	Evidence of a new state in ^{11}Be observed in the ^{11}Li \hat{I}^2 -decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 255-259.	4.1	12
82	Precise branching ratios to unbound ^{12}C states from ^{12}N and ^{12}B \hat{I}^2 -decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 459-464.	4.1	41
83	Observation of \hat{I}^3 -delayed 3^4He breakup of the 15.11 and 12.71 MeV states in ^{12}C . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 44-49.	4.1	25
84	Kinematic identification of the η t branch in the decay of ^{11}Li . European Physical Journal A, 2009, 42, 415.	2.5	11
85	STUDIES OF ^{12}C USING \hat{I}^2 -DECAYS. International Journal of Modern Physics E, 2008, 17, 2182-2187.	1.0	1
86	Measurement of the Two-Halo Neutron Transfer Reaction $^{12}\text{C} + n \rightarrow ^{11}\text{C} + n + n$. $^{12}\text{C} + n \rightarrow ^{11}\text{C} + n + n$		

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91	Interplay between octupole and quasiparticle excitations in ^{178}Hg and ^{180}Hg . Physical Review C, 2000, 62, .	2.9	36
92	Ground-State Band and Deformation of the $Z=102$ Isotope ^{254}O . Physical Review Letters, 1999, 82, 509-512.	7.8	191
93	Complex band structure in neutron-deficient ^{178}Hg . Physical Review C, 1999, 61, .	2.9	21