

# Sergio Almaraz-Calderon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1657558/publications.pdf>

Version: 2024-02-01

59  
papers

707  
citations

567281

15  
h-index

580821

25  
g-index

61  
all docs

61  
docs citations

61  
times ranked

767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a new $C$ state at 13.3 MeV. <i>Physical Review C</i> , 2011, 83, .	2.9	102
2	Reaction rate for carbon burning in massive stars. <i>Physical Review C</i> , 2018, 97, .	2.9	69
3	Shape coexistence and the role of axial asymmetry in $^{72}\text{Ge}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 754, 254-259.	4.1	57
4	Measurements of Fusion Reactions of Low-Intensity Radioactive Carbon Beams on $C$ .	7.8	39
5	Measurements of Fusion Reactions of Low-Intensity Radioactive Carbon Beams on $O$ .	7.8	35
6	Multi-Sampling Ionization Chamber (MUSIC) for measurements of fusion reactions with radioactive beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 799, 197-202.	1.6	32
7	Investigation of the $4\text{-}\hat{1}\pm$ linear chain state in $^{12}\text{C}$ .	2.9	31
8	First Direct Measurement of $^{12}\text{C} + ^{12}\text{C}$ .		

#	ARTICLE	IF	CITATIONS
19	Identification of $\gamma$ -decaying resonant states in $^{26}\text{Mg}$ and their importance for the astrophysical s process. <i>European Physical Journal A</i> , 2019, 55, 1. Experimental study of the $^{12}\text{C} + ^{12}\text{C}$ fusion reaction and its	2.5	10
20	Yield measurements for resonances above the multi- $\alpha$ threshold in $^{20}\text{Ne}$ .	2.9	10
21	Position-sensitive, fast ionization chambers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 890, 119-125.	7.8	10
22	Single-neutron excitations in $^{18}\text{N}$ .	1.6	9
23	Yield measurements for resonances above the multi- $\alpha$ threshold in $^{20}\text{Ne}$ .	2.9	8
24	Experimental investigation of the $^{12}\text{C} + ^{12}\text{C}$ fusion at very low energies by direct and indirect methods. <i>Journal of Physics: Conference Series</i> , 2013, 420, 012151.	2.9	6
25	Stretched states in $^{12}\text{B}$ with the $(d, \alpha)$ reaction. <i>Physical Review C</i> , 2014, 90, .	0.4	6
26	Independent measurement of the $^{12}\text{C} + ^{12}\text{C}$ fusion cross section for astrophysics. <i>EPJ Web of Conferences</i> , 2015, 93, 03009.	2.9	6
27	Proton capture reaction cross section measurements on $^{162}\text{Er}$ as a probe of statistical model calculations. <i>Physical Review C</i> , 2017, 96, .	2.9	6
28	Study of the fusion reaction $^{12}\text{C} + ^{12}\text{C}$ at low beam energy. <i>Journal of Physics: Conference Series</i> , 2013, 420, 012120.	0.4	5
29	Constraining the $^{12}\text{C} + ^{12}\text{C}$ fusion cross section for astrophysics. <i>EPJ Web of Conferences</i> , 2015, 93, 03009.	0.3	5
30	Reaction and its influence on the flux of cosmic $^{12}\text{C} + ^{12}\text{C}$ fusion cross sections measurements for nuclear astrophysics. <i>EPJ Web of Conferences</i> , 2015, 96, 01001.	0.3	4
31	Breakup branches of Borromean beryllium-9. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	4
32	Characterization of the CATRiNA neutron detector system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 930, 196-202.	1.6	4
33	The core active target detector: A Multi-Sampling Ionization Chamber. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 981, 165124.	1.6	4
34	Low-lying resonances in $^{12}\text{C}$ relevant for the determination of the astrophysical $^{12}\text{C} + ^{12}\text{C}$ fusion cross sections measurements for nuclear astrophysics. <i>EPJ Web of Conferences</i> , 2015, 96, 01001.		

#	ARTICLE	IF	CITATIONS
37	Revised decay properties of the key 93 keV resonance in the $^{25}\text{Mg}(p,\alpha)^{22}\text{Ne}$ reaction and its influence on the MgAl cycle in astrophysical environments. <i>Physical Review C</i> , 2022, 105, 044601.	2.9	4
38	Development of an Isomeric beam of $^{26}\text{Al}$ for nuclear reaction studies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 899, 6-9.	1.6	3
39	Resolution of a long-standing discrepancy in the $^{17}\text{O}(\alpha,n)^{20}\text{Ne}$ fusion excitation function. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	3
40	Study of the $^{20,22}\text{Ne}+^{20,22}\text{Ne}$ and $^{10,12,13,14,15}\text{C}+^{12}\text{C}$ Fusion Reactions with MUSIC. <i>EPJ Web of Conferences</i> , 2016, 117, 08009.	0.3	2
41	Fusion measurements of $^{12}\text{C}+^{12}\text{C}$ at energies of astrophysical interest. <i>EPJ Web of Conferences</i> , 2016, 117, 09011.	0.3	2
42	Evidence for a 3.8 MeV state in $^{9}\text{Be}$ . <i>Physical Review C</i> , 2016, 94, .	2.9	2
43	How well do we understand the reaction rate of C burning?. <i>EPJ Web of Conferences</i> , 2017, 163, 00011.	0.3	2
44	Observation of isobaric analog states in $^{9}\text{Be}$ using $^{12}\text{C}+^{9}\text{Be}$ reactions. <i>Physical Review Letters</i> , 2019, 123, 082501.	1.9	2
45	Simplicity from Complexity. <i>Journal of Physics: Conference Series</i> , 2012, 381, 012009.	0.4	1
46	Does a $4\text{-}\hat{1}\pm$ linear chain exist in $^{16}\text{O}$ ?. <i>Journal of Physics: Conference Series</i> , 2012, 381, 012079.	0.4	1
47	$\hat{1}^2$ -decay measurements of $^{12}\text{B}$ with Gammasphere. <i>EPJ Web of Conferences</i> , 2014, 66, 07001.	0.3	1
48	First direct measurement of $^{12}\text{C}(^{12}\text{C},n)^{23}\text{Mg}$ at stellar energies. <i>EPJ Web of Conferences</i> , 2016, 109, 04009.	0.3	1
49	Disentangling unclear nuclear breakup channels of beryllium-9 using the three-axis Dalitz plot. <i>Journal of Physics: Conference Series</i> , 2017, 863, 012032.	0.4	1
50	Cross section measurements in the $^{12}\text{C}+^{12}\text{C}$ system. <i>EPJ Web of Conferences</i> , 2017, 165, 01015.	0.3	1
51	Study of $\hat{1}\pm$ -particle induced reactions using the MUSIC detector. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
52	Characterization and description of a spectrum unfolding method for the CATRINA neutron detector array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022, 1034, 166759.	1.6	1
53	Excited states of $^{12}\text{C}$ using the $^{12}\text{C}+^{12}\text{C}$ reaction. <i>Physical Review Letters</i> , 2019, 123, 082501.	2.9	1
54	Excited states of $^{12}\text{C}$ above the alpha-decay threshold. <i>Journal of Physics: Conference Series</i> , 2011, 321, 012036.	0.4	0

#	ARTICLE	IF	CITATIONS
55	Publisher's Note: Level structure of $^{18}\text{Ne}$ and its importance in the $^{14}\text{O}(\hat{I}_{\pm,p})^{17}\text{F}$ reaction rate [Phys. Rev. C86, 025801 (2012)]. Physical Review C, 2012, 86, .	2.9	0
56	The Role of $^{12}\text{C}(^{12}\text{C},n)$ in the Astrophysical S-Process. Journal of Physics: Conference Series, 2012, 381, 012121.	0.4	0
57	Fusion-induced fission measurements with the MUSIC active target detector. EPJ Web of Conferences, 2020, 242, 01005.	0.3	0
58	Nuclear Astrophysics Studies with an Isomeric $^{26}\text{Alm}$ Beam. , 2017, , .		0
59	Experimental study of the $^{24}\text{Mg}(\alpha, n)^{27}\text{Al}$ reaction and implications for the influence of the $^{26}\text{Alm}$ isomer. Physical Review C, 2021, 104, .		