

G F Ciani

List of Publications by Year in descending order

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34
papers

752
citations

430874

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times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	The challenging direct measurement of the 65 keV resonance strength of the $^{17}\text{O}(p, \hat{1}^3)^{18}\text{F}$ reaction at LUNA. EPJ Web of Conferences, 2022, 260, 11003.	0.3	2
2	Trends in particle and nuclei identification techniques in nuclear physics experiments. Rivista Del Nuovo Cimento, 2022, 45, 189-276.	5.7	22
3	Underground Measurements of Nuclear Reaction Cross-Sections Relevant to AGB Stars. Universe, 2022, 8, 4.	2.5	6
4	The Study of Key Reactions Shaping the Post-Main Sequence Evolution of Massive Stars in Underground Facilities. Frontiers in Astronomy and Space Sciences, 2021, 7, .	2.8	16
5	Characterization of the LUNA neutron detector array for the measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction. Nuclear Instruments & Methods in Physics Research B, 2021, 478, 194-200.	1.6	21
6	Low-energy resonances in the $^{18}\text{O}(p, \hat{1}^3)^{19}\text{F}$ reaction. Physical Review C, 2021, 104, .	2.9	13
7	Direct measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction. Physical Review C, 2021, 104, .	7.8	40
8	Precise resonance energies measured for energy calibration of particle accelerator using thin silicon-nitride foils. Nuclear Instruments & Methods in Physics Research B, 2020, 478, 194-200.	1.4	9
9	The baryon density of the Universe from an improved rate of deuterium burning. Nature, 2020, 587, 210-213.	27.8	101
10	Underground experimental study finds no evidence of low-energy resonance in the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction. Physical Review C, 2020, 102, .	2.9	13
11	A new approach to monitor ^{13}C -targets degradation in situ for $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction. Springer Proceedings in Physics, 2020, , 391-402.	2.5	20
12	Setup commissioning for an improved measurement of the $\text{D}(p, \gamma)^3\text{He}$ cross section at Big Bang Nucleosynthesis energies. European Physical Journal A, 2020, 56, 1.	2.5	22
13	Few-Nucleon Reactions in Underground Laboratory. Springer Proceedings in Physics, 2020, , 391-402.	0.2	0
14	Direct Measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ Reaction at LUNA. Springer Proceedings in Physics, 2020, , 277-282.	0.2	0
15	Cross section of the $^{13}\text{C}(\hat{1}^3, n)^{16}\text{O}$ reaction at low energies. Journal of Physics: Conference Series, 2020, 1668, 012007.	0.4	0
16	Direct measurements of low-energy resonance strengths of the $^{23}\text{Na}(p, \hat{1}^3)^{24}\text{Mg}$ reaction for astrophysics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 122-128.	4.1	23
17	Cross section of the reaction $^{18}\text{O}(p, \hat{1}^3)^{19}\text{F}$ at astrophysical energies: The 90 keV resonance and the direct capture component. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134900.	4.1	18
18	Improved astrophysical rate for the $^{18}\text{O}(p, \hat{1}^3)^{19}\text{F}$ reaction by underground measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 237-242.	4.1	22

#	ARTICLE	IF	CITATIONS
19	The LUNA Neutron Detector Array for the Direct Measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ Reaction at LUNA. Springer Proceedings in Physics, 2019, , 315-319.	1.0	784314
20	Direct Measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ Reaction at LUNA. Springer Proceedings in Physics, 2019, , 315-319.	0.2	0
21	Improved background suppression for radiative capture reactions at LUNA with HPGe and BGO detectors. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 025203.	3.6	30
22	A high-efficiency gas target setup for underground experiments, and redetermination of the branching ratio of the 189.5 keV $^{22}\text{Ne}(p, \gamma)^{23}\text{Na}$ resonance. European Physical Journal A, 2018, 54, 1.	2.5	39
23	Direct Capture Cross Section and the $^{22}\text{Ne}(p, \gamma)^{23}\text{Na}$ and $^{105}\text{Ag}(p, \gamma)^{106}\text{Cd}$ Resonances in the $^{22}\text{Ne}(p, \gamma)^{23}\text{Na}$ Reaction. Physical Review Letters, 2018, 121, 172701.	7.8	30
24	Improved pulse shape discrimination for high pressure ^3He counters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 906, 103-109.	1.6	19
25	The Importance of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ Reaction in Asymptotic Giant Branch Stars. Astrophysical Journal, 2018, 859, 105.	4.5	50
26	Origin of meteoritic stardust unveiled by a revised proton-capture rate of ^{17}O . Nature Astronomy, 2017, 1, .	10.1	64
27	The impact of the revised $^{17}\text{O}(p, \alpha)^{14}\text{N}$ reaction rate on ^{17}O stellar abundances and yields. Astronomy and Astrophysics, 2017, 598, A128.	5.1	25
28	^{22}Ne and ^{23}Na ejecta from intermediate-mass stars: the impact of the new LUNA rate for $^{22}\text{Ne}(p, \gamma)^{23}\text{Na}$. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4817-4837.	4.4	40
29	Feasibility study of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction at LUNA. EPJ Web of Conferences, 2017, 136, 01010.	0.3	1
30	Target characterizations for direct measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction at LUNA 400. EPJ Web of Conferences, 2017, 165, 01012.	0.3	5
31	Introduction of the new LUNA experimental setup for high precision measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction for astrophysical purposes. EPJ Web of Conferences, 2017, 165, 01017.	0.3	3
32	Neutron detection in nuclear astrophysics experiments: study of organic liquid scintillators. Journal of Physics: Conference Series, 2016, 689, 012016.	0.4	2
33	Improved Direct Measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ Resonance Strength in the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ Reaction. Physical Review Letters, 2017, 118, 172701.		