Maria Letizia Sergi

List of Publications by Year
in descending order

125 papers	1,817 citations	186265 28 h-index	265206 42 g-index
129 all docs	129 docs citations	129 times ranked	640 citing authors

#	Article	IF	Citations
1	An increase in the 12C + 12C fusion rate from resonances at astrophysical energies. Nature, 2018, 557, 687-690.	27.8	123
2	THE FLUORINE DESTRUCTION IN STARS: FIRST EXPERIMENTAL STUDY OF THE ¹⁹ F(<i>p</i> , Î±) Tj ETQq0 0 0 rgBT /Overlo 2011, 739, L54.	8.3	85
3	A NOVEL APPROACH TO MEASURE THE CROSS SECTION OF THE¹⁸O(<i>p</i>, Î±)¹⁵N RESONANT REACTION IN THE 0-200 keV ENERGY RANGE. Astrophysical Journal, 2010, 708, 796-811.	4.5	74
4	NEW DETERMINATION OF THE²H(<i>d</i>,<i>p</i>)³H AND²H(<i>d</i>,<i>n</i>)³He REACTION RATES AT ASTROPHYSICAL ENERGIES. Astrophysical Journal, 2014, 785, 96.	4.5	73
5	... Resonances in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mn>18</mml:mn></mml:mmultiscripts><mml:mo stretchy="false">(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:mi>Î±</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT / mathvariant="normal">N</mml:mi><mml:mo	7.8	65
6	AN UPDATED⁶Li(<i>p</i>, Î±)³He REACTION RATE AT ASTROPHYSICAL ENERGIES WITH THE TROJAN HORSE METHOD. Astrophysical Journal, 2013, 768, 65.	4.5	63
7	New high accuracy measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none		

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19	[illegible]ment of the high-accuracy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>17</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>p</mml:mi><mml:mo>, mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>14</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>reaction rate me	2.9	40
20	First Measurement of the ¹⁹F(Î±, p)²²Ne Reaction at Energies of Astrophysical Relevance. Astrophysical Journal, 2017, 836, 57.	4.5	40
21	On the Determination of the ⁷Be(n, Î±)⁴He Reaction Cross Section at BBN Energies. Astrophysical Journal, 2017, 850, 175.	4.5	40
22	Validity test of the Trojan Horse Method applied to the 7Li + p â†’ Î± + Î± reaction via the 3He break-up. European Physical Journal A, 2006, 27, 243-248.	2.5	39
23	Boron depletion: indirect measurement of the 10B(p,Î±)7Be S(E)-factor. Nuclear Physics A, 2007, 787, 309-314.	1.5	39
24	Erratum to â€œLow-energy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi mathvariant="normal">d</mml:mi><mml:mo>+</mml:mo><mml:mi mathvariant="normal">d</mml:mi></mml:math> fusion reactions via the Trojan Horse Methodâ€•[Phys. Lett. B 700 (2) (2011) 111]. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 546.	4.1	37
25	[illegible] xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mn>17</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>Î±</m mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>14</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>reaction by means of the Tro.	2.9	35
26	Measurement of the B10(p,Î±0)Be7 cross section from 5 keV to 1.5 MeV in a single experiment using the Trojan horse method. Physical Review C, 2017, 95, .	2.9	30
27	Asymptotic normalization coefficients from the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>14</mml:mn></mml:msup></mml:math>C(<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (xmlns:mml=	2.9	29
28	Molecular structures in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>T</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>states of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>10</mml:mn></mml:msup></mml:math>B. Physical Review C, 2011, 84, .	2.9	29
29	New Advances in the Trojan Horse Method as an Indirect Approach to Nuclear Astrophysics. Few-Body Systems, 2013, 54, 745-753.	1.5	29
30	The ¹⁹F(Î±, p)²²Ne Reaction at Energies of Astrophysical Relevance by Means of the Trojan Horse Method and Its Implications in AGB Stars. Astrophysical Journal, 2018, 860, 61.	4.5	29
31	Indirect measurement of the $$^3hbox {He}$$(n,p)$$^3hbox {H}$$ reaction cross section at Big Bang energies. European Physical Journal A, 2020, 56, 1.	2.5	21
32	Indirect measurement of the ¹⁸O(<i>p</i>, Î±)¹⁵N reaction rate through the THM. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014014.	3.6	20
33	On the magnitude of the 8Li + 4He â†’ 11B + n reaction cross section at the Big-Bang temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 664, 157-161.	4.1	19
34	Study of the 10B(p,$alpha_{1}$Î±1)7Be reaction by means of the Trojan Horse Method. European Physical Journal A, 2018, 54, 1.	2.5	19
35	A new study of 10B(p, $alpha$)7Be reaction at low energies. European Physical Journal A, 2016, 52, 1.	2.5	17
36	Trojan horse measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">B</mml:mi><mml:mprescripts /><mml:none /><mml:mn>10</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:msub><mml /><mml:none /><mml:mn>7</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> cross section in the ene. Physical Review C, 2018, 97, .	2.9	16

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37	Clusters and their fundamental role for Trojan Horse Method. European Physical Journal A, 2020, 56, 1.	2.5	15
38	Indirect determination of the astrophysical <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>S</mml:mi></mml:math> factor for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>6</mml:mn></mml:mmultiscripts></mml:math> (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 682 Td (	2.9	15
39	The 10B(n,$alpha$)7Li cross sections at ultra-low energy through the Trojan Horse Method applied to the 2H(10B,$alpha^{7}$Li)1H. European Physical Journal A, 2019, 55, 1.	2.5	14
40	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Si</mml:mi><mml:mprescripts /><mml:none /><mml:mn>26</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:mi>Î³</mml: mathvariant="normal">P</mml:mi><mml:mprescripts /><mml:none /><mml:mn>27</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> direct proton capture by mea	2.9	14
41	DWBA momentum distribution and its effect on THM. Nuclear Physics A, 2010, 834, 658c-660c.	1.5	11
42	Measurement of Neutron Reaction Cross Sections in Carbon using a Single Crystal Diamond Detector. AIP Conference Proceedings, 2011, , .	0.4	10
43	Clustering in Non-Self-Conjugate Nuclei. Progress of Theoretical Physics Supplement, 2012, 196, 184-191.	0.1	10
44	The Trojan horse method in nuclear astrophysics: recent results. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014008.	3.6	7
45	The $$^{27}hbox {Al}(hbox {p},alpha)^{24}hbox {Mg}$$ reaction at astrophysical energies studied by means of the Trojan Horse Method applied to the $$^2hbox {H}(^{27}hbox {Al},alpha ^{24}hbox) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	7
46	No signature of nuclear-Coulomb interference in the proton-proton elastic scattering via the Trojan Horse Method. Nuclear Physics A, 2007, 787, 337-342.	1.5	6
47	Indirect study of 11B(p,)8Be and 10B(p,Î±)7Be reactions at astrophysical energies by means of the Trojan Horse Method: recent results. Nuclear Physics A, 2010, 834, 655c-657c.	1.5	6
48	New High-Precision Measurement of the Reaction Rate of the ¹⁸O(<i>p</i>,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td 26, 237-242.	3.4	5
49	Trojan Horse Method: recent applications in nuclear astrophysics. Nuclear Physics A, 2010, 834, 639c-642c.	1.5	4
50	Trojan Horse Particle Invariance: An Extensive Study. Few-Body Systems, 2014, 55, 1001-1004.	1.5	4
51	Low Mass Stars or Intermediate Mass Stars? The Stellar Origin of Presolar Oxide Grains Revealed by Their Isotopic Composition. Frontiers in Astronomy and Space Sciences, 2021, 7, .	2.8	4
52	Neutron-Driven Nucleosynthesis in Stellar Plasma. Frontiers in Physics, 0, 10, .	2.1	4
53	Experimental study of the18O(d, p)19O reaction and the ANC Method. Journal of Physics: Conference Series, 2013, 420, 012142.	0.4	3
54	^{10}B(n,$$alpha _{0}$$)^{7}Li and ^{10}B(n,$$alpha _{1}$$)^{7}Li reactions measured via Trojan Horse Method. European Physical Journal A, 2021, 57, 1.	2.5	3

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55	Trojan Horse Investigation for AGB Stellar Nucleosynthesis. Universe, 2022, 8, 128.	2.5	3
56	Pole approximation in the quasi-free t + p scattering and the t(p,d)d reaction via the t + d interaction. Few-Body Systems, 2008, 44, 353-356.	1.5	2
57	Trojan Horse Method: A tool to explore electron screening effect. Journal of Physics: Conference Series, 2010, 202, 012018.	0.4	2
58	Nuclear Astrophysics with the Trojan Horse Method. Journal of Physics: Conference Series, 2016, 665, 012009.	0.4	2
59	Indirect Measurements of n- and p-Induced Reactions of Astrophysical Interest on Oxygen Isotopes. Frontiers in Astronomy and Space Sciences, 2020, 7, .	2.8	2
60	Proton-proton elastic scattering via the Trojan horse method. Few-Body Systems, 2008, 43, 219-225.	1.5	1
61	New results on the Trojan Horse Method applied to the [sup 10,11]B+p reactions. , 2009, , .		1
62	First measurement of the¹⁸O(<i>p,</i>Î±)¹⁵N cross section at astrophysical energies. Journal of Physics: Conference Series, 2010, 202, 012019.	0.4	1
63	Trojan Horse Method: a useful tool for electron screening effect investigation. Nuclear Physics A, 2010, 834, 673c-675c.	1.5	1
64	Light nuclear clusters to look into the bright stars. , 2012, , .		1
65	Bare nucleus S(E) factor of the2H(d,p)3H and2H(d,n)3He reactions via the Trojan Horse Method. Journal of Physics: Conference Series, 2012, 337, 012017.	0.4	1
66	Low-energy d+d fusion via the Trojan Horse Method. Journal of Physics: Conference Series, 2013, 436, 012073.	0.4	1
67	Investigation of the¹⁹F(p, Î±)¹⁶O reaction in the THM framework. Journal of Physics: Conference Series, 2013, 420, 012139.	0.4	1
68	The 18O(d,p)19O reaction and the ANC method. , 2014, , .		1
69	Resonance strength measurement at astrophysical energies: The 17O(p,Î±)14N reaction studied via Trojan Horse Method. AIP Conference Proceedings, 2015, , .	0.4	1
70	Study of the ¹⁷O(<i>n</i>, (alpha))¹⁴C Reaction: Extension of the Trojan Horse Method to the Neutrons Induced Reactions. , 2017, , .		1
71	Indirect methods constraining nuclear capture - the Trojan Horse Method. Journal of Physics: Conference Series, 2020, 1668, 012045.	0.4	1
72	Indirect Measurement of [sup 15]N(p,Î±)[sup 12]C and [sup 18]O(p,Î±)[sup 15]N. Applications to the AGB Star Nucleosynthesis. AIP Conference Proceedings, 2008, , .	0.4	0

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73	Recent Applications of the THM to the AGB Star Nucleosynthesis. AIP Conference Proceedings, 2008, , .	0.4	0
74	Indirect Measurements for (p,Î±) Reactions Involving Boron Isotopes. AIP Conference Proceedings, 2008, , .	0.4	0
75	RECENT ASTROPHYSICAL APPLICATIONS OF THE TROJAN HORSE METHOD TO NUCLEAR ASTROPHYSICS. AIP Conference Proceedings, 2008, , .	0.4	0
76	The trojan horse method as indirect technique in nuclear astrophysics. Journal of Physics: Conference Series, 2008, 111, 012033.	0.4	0
77	Nuclear Proton-proton Elastic Scattering via the Trojan Horse Method. , 2009, , .		0
78	The Trojan Horse method as an indirect approach for nuclear astrophysics studies. Journal of Physics: Conference Series, 2010, 205, 012048.	0.4	0
79	Indirect measurement of17O(p,Î±)14N cross section at ultra-low energies. Journal of Physics: Conference Series, 2010, 202, 012021.	0.4	0
80	Coulomb suppression in the low-energy p-p elastic scattering via the Trojan Horse Method. , 2010, , .		0
81	The 65 keV resonance in the 17O(p,Î±)14N thermonuclear reaction. Nuclear Physics A, 2010, 834, 676c-678c.	1.5	0
82	Pole approximation validation in the study of the [sup 6]Li(d,Î±)[sup 4]He reaction. , 2010, , .		0
83	The [sup 2]H(d,p)[sup 3]H Reaction At Astrophysical Energies Studied Via The Trojan Horse Method And Pole Approximation Validity Test. , 2010, , .		0
84	The Trojan Horse Method as a tool to investigate low-energy resonances: the [sup 18]O(p, Î±)[sup 15]N and [sup 17]O(p, Î±)[sup 14]N cases. , 2010, , .		0
85	Improved Results on Extraction of [sup 11]B(p, Î±[sub 0])[sup 8]Be and [sup 10]B(p, Î±)[sup 7]Be S(E)-Factor Through the Trojan Horse Method. , 2010, , .		0
86	Nuclear Astrophysics and Neutron Induced Reactions: Quasi-Free Reactions and RIBs. , 2010, , .		0
87	Study of the [sup 10]B(p,Î±)[sup 7]Be Reaction through the Indirect Trojan Horse Method. , 2010, , .		0
88	Spectator invariance test in the study of the Trojan Horse Method6,7Li fusion reactions via the Trojan Horse Method. EPJ Web of Conferences, 2011, 17, 06004.	0.3	0
89	Indirect Study of the 2H(d,p)3H and 2H(d,n)3He Reactions at Astrophysical Energies via the Trojan Horse Method. Few-Body Systems, 2011, 50, 323-325.	1.5	0
90	High accuracy [sup 18]O(p,Î±)[sup 15]N reaction rate in the 8â‹…10[sup 6]â€“5â‹…10[sup 9]â€‰K temperature range. , 2011, , .		0

#	Article	IF	Citations
91	[sup 2]H(d,p)[sup 3]H and [sup 2]H(d,n)[sup 3]He reactions at sub-coulomb energies. , 2012, , .		0
92	The fluorine destruction in stars: First experimental study of the [sup 19]F(p,Î±)[sup 16]O reaction at astrophysical energies. , 2012, , .		0
93	Light element burning reactions at stellar temperatures in view of the recent THM measurements. EAS Publications Series, 2013, 63, 315-320.	0.3	0
94	Electron screening effects in (p,Î±) reactions induced on boron isotopes studied via the Trojan Horse Method. Journal of Physics: Conference Series, 2013, 436, 012075.	0.4	0
95	Application of the Trojan Horse Method to study neutron induced reactions: the17O(n,Î±)14Creaction. EPJ Web of Conferences, 2014, 66, 07008.	0.3	0
96	Lithium and boron burning S(E)-factor measurements at astrophysical energies via the Trojan Horse Method. EPJ Web of Conferences, 2014, 66, 07012.	0.3	0
97	Study of the 17O(n,Î±)14C reaction: Extension of the Trojan Horse Method to neutron induced reactions. , 2014, , .		0
98	17O(p,Î±)14N reaction measurement at astrophysical energies. , 2014, , .		0
99	On the introduction of 17O+p reaction rates evaluated through the THM in AGB nucleosynthesis calculations. , 2014, , .		0
100	The 17O(p,Î±)14N reaction measurement via the Trojan horse method and its application to 17O nucleosynthesis. , 2014, , .		0
101	Unscreened cross-sections for nuclear astrophysics via the Trojan Horse Method. Journal of Physics: Conference Series, 2014, 569, 012018.	0.4	0
102	Study of the 10B(p,Î±)7Be reaction through the indirect Trojan Horse method. , 2015, , .		0
103	Impact of THM reaction rates for astrophysics. AIP Conference Proceedings, 2015, , .	0.4	0
104	The AGB star nucleosynthesis in the light of the recent 17O(p,Î±)14N and 18O(p,Î±)15N reaction rate determinations. , 2015, , .		0
105	THM determination of the 65 keV resonance strength intervening in the 17O(p,Î±)14N reaction rate. , 2015, , .		0
106	The effect of the recent17O(p,Î±)14N and18O(p,Î±)15N fusion cross section measurements in the nucleosynthesis of AGB stars. EPJ Web of Conferences, 2015, 86, 00030.	0.3	0
107	Development of a Monte Carlo code for the data analysis of the 18F(p,Î±)15O reaction at astrophysical energies. , 2015, , .		0
108	Light elements burning reaction rates at stellar temperatures as deduced by the Trojan Horse measurements. , 2015, , .		0

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109	C-burning via the Trojan horse method. AIP Conference Proceedings, 2017, , .	0.4	0
110	AGB nucleosynthesis: The 19F(Î±, p)22Ne reaction at astrophysical energies. AIP Conference Proceedings, 2017, , .	0.4	0
111	Trojan horse method with neutrons induced reactions: The 17O(n,Î±)14C reaction. AIP Conference Proceedings, 2017, , .	0.4	0
112	Clusterization of light nuclei and the Trojan Horse Method. Journal of Physics: Conference Series, 2017, 863, 012072.	0.4	0
113	New direct measurement of the10B(p,Î±)7Be reaction with the activation technique. EPJ Web of Conferences, 2017, 165, 01021.	0.3	0
114	Nuclear reactions in AGB nucleosynthesis: the19F(Î±, p)22Ne at energies of astrophysical relevance. EPJ Web of Conferences, 2017, 165, 01019.	0.3	0
115	The Trojan Horse Method application on the 10B(p,Î±0)7Be reaction cross section measurements. EPJ Web of Conferences, 2017, 165, 01018.	0.3	0
116	The 10B(p,Î±)7Be S(E)-factor from 5 keV to 1.5 MeV using the Trojan Horse Method. EPJ Web of Conferences, 2017, 165, 01042.	0.3	0
117	C-burning at astrophysical energies via the Trojan Horse Method. AIP Conference Proceedings, 2018, , .	0.4	0
118	Neutron-induced reactions investigated via the Trojan Horse Method. Journal of Physics: Conference Series, 2019, 1308, 012022.	0.4	0
119	Nuclear astrophysics experiments with trojan horse method. AIP Conference Proceedings, 2019, , .	0.4	0
120	Nuclear Physics in Stellar Lifestyles with the Trojan Horse Method. EPJ Web of Conferences, 2019, 223, 01065.	0.3	0
121	Indirect study of the 3He(n, p)3H reaction at cosmological energies. Journal of Physics: Conference Series, 2020, 1668, 012039.	0.4	0
122	The Resonant Behaviour of the ^{12} C+ ^{12} C Fusion Cross Section at Astrophysical Energies. Springer Proceedings in Physics, 2019, , 17-22.	0.2	0
123	The Cosmologically Relevant ^{7} Be(n, $$alpha $$) ^{4} He Reaction in View of the Recent THM Investigations. Springer Proceedings in Physics, 2019, , 53-56.	0.2	0
124	The $$^{19}mathrm{F}(alpha ,mathrm{p})^{22}$$ Ne and $$^{23}mathrm{Na}(mathrm{p},alpha) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Proceedings in Physics, 2019, , 339-342.	0.2	0
125	Overview on the Trojan Horse Method in nuclear astrophysics. Journal of Physics: Conference Series, 2020, 1643, 012051.	0.4	0