# Maria Letizia Sergi

List of Publications by Year
in descending order

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Version: 2024-02-01

| | | | |
|---|---|---|---|
| 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 | Trojan Horse Investigation for AGB Stellar Nucleosynthesis. Universe, 2022, 8, 128. | 2.5 | 3 |
| 2 | <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 mathvariant="normal">Î³</mml:mi><mml:mmultiscripts><mml:mi 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 |
| 3 | 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 |
| 4 | $$^{10}$$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 |
| 5 | 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 ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 | 2.9 | 15 |
| 6 | 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 $$^2hbox {H}(^{27}hbox {Al},alpha ^{24}hbox) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 2.8 | 7 |
| 7 | Indirect Measurements of n- and p-Induced Reactions of Astrophysical Interest on Oxygen Isotopes. Frontiers in Astronomy and Space Sciences, 2020, 7, . | 2.8 | 2 |
| 8 | Clusters and their fundamental role for Trojan Horse Method. European Physical Journal A, 2020, 56, 1. | 2.5 | 15 |
| 9 | Indirect measurement of the $$^3hbox {He}$$(n,p)$$^3hbox {H}$$ reaction cross section at Big Bang energies. European Physical Journal A, 2020, 56, 1. | 2.5 | 21 |
| 10 | Indirect methods constraining nuclear capture - the Trojan Horse Method. Journal of Physics: Conference Series, 2020, 1668, 012045. | 0.4 | 1 |
| 11 | Indirect study of the 3He(n, p)3H reaction at cosmological energies. Journal of Physics: Conference Series, 2020, 1668, 012039. | 0.4 | 0 |
| 12 | Overview on the Trojan Horse Method in nuclear astrophysics. Journal of Physics: Conference Series, 2020, 1643, 012051. | 0.4 | 0 |
| 13 | Cross-section Measurement of the Cosmologically Relevant <sup>7</sup>Be(n, Î±)<sup>4</sup>He Reaction over a Broad Energy Range in a Single Experiment. Astrophysical Journal, 2019, 879, 23. | 4.5 | 49 |
| 14 | Neutron-induced reactions investigated via the Trojan Horse Method. Journal of Physics: Conference Series, 2019, 1308, 012022. | 0.4 | 0 |
| 15 | Nuclear astrophysics experiments with trojan horse method. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 16 | Nuclear Physics in Stellar Lifestyles with the Trojan Horse Method. EPJ Web of Conferences, 2019, 223, 01065. | 0.3 | 0 |
| 17 | The 10B(n,$alpha$)7Li cross sections at ultra-low energy through the Trojan Horse Method applied to the 2H(10B,$alpha^{7}$Li)1H. European Physical Journal A, 2019, 55, 1. | 2.5 | 14 |
| 18 | The Resonant Behaviour of the $$^{12}$$ C+ $$^{12}$$ C Fusion Cross Section at Astrophysical Energies. Springer Proceedings in Physics, 2019, , 17-22. | 0.2 | 0 |

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|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | C-burning at astrophysical energies via the Trojan Horse Method. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 23 | An increase in the 12C + 12C fusion rate from resonances at astrophysical energies. Nature, 2018, 557, 687-690. | 27.8 | 123 |
| 24 | 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 |
| 25 | The <sup>19</sup>F(Î±, p)<sup>22</sup>Ne 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 |
| 26 | Assessing the near threshold cross section of the<mml:math 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±</mml: 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 |
| 27 | 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 |
| 28 | First Measurement of the <sup>19</sup>F(Î±, p)<sup>22</sup>Ne Reaction at Energies of Astrophysical Relevance. Astrophysical Journal, 2017, 836, 57. | 4.5 | 40 |
| 29 | Study of the <sup>17</sup>O(n, (alpha ))<sup>14</sup>C Reaction: Extension of the Trojan Horse Method to the Neutrons Induced Reactions. , 2017, , . | | 1 |
| 30 | On the Determination of the <sup>7</sup>Be(n, Î±)<sup>4</sup>He Reaction Cross Section at BBN Energies. Astrophysical Journal, 2017, 850, 175. | 4.5 | 40 |
| 31 | C-burning via the Trojan horse method. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 32 | AGB nucleosynthesis: The 19F(Î±, p)22Ne reaction at astrophysical energies. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 33 | Trojan horse method with neutrons induced reactions: The 17O(n,Î±)14C reaction. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 34 | Clusterization of light nuclei and the Trojan Horse Method. Journal of Physics: Conference Series, 2017, 863, 012072. | 0.4 | 0 |
| 35 | New direct measurement of the10B(p,Î±)7Be reaction with the activation technique. EPJ Web of Conferences, 2017, 165, 01021. | 0.3 | 0 |
| 36 | Nuclear reactions in AGB nucleosynthesis: the19F(Î±, p)22Ne at energies of astrophysical relevance. EPJ Web of Conferences, 2017, 165, 01019. | 0.3 | 0 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | Nuclear Astrophysics with the Trojan Horse Method. Journal of Physics: Conference Series, 2016, 665, 012009. | 0.4 | 2 |
| 40 | A new study of 10B(p, $alpha$ )7Be reaction at low energies. European Physical Journal A, 2016, 52, 1. | 2.5 | 17 |
| 41 | Improvement 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>, /><mml:mmultiscripts><mml:mi 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 |
| 42 | Study of the 10B(p,Î±)7Be reaction through the indirect Trojan Horse method. , 2015, , . | | 0 |
| 43 | Impact of THM reaction rates for astrophysics. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 44 | Resonance strength measurement at astrophysical energies: The 17O(p,Î±)14N reaction studied via Trojan Horse Method. AIP Conference Proceedings, 2015, , . | 0.4 | 1 |
| 45 | The AGB star nucleosynthesis in the light of the recent 17O(p,Î±)14N and 18O(p,Î±)15N reaction rate determinations. , 2015, , . | | 0 |
| 46 | THM determination of the 65 keV resonance strength intervening in the 17O(p,Î±)14N reaction rate. , 2015, , . | | 0 |
| 47 | 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 |
| 48 | Development of a Monte Carlo code for the data analysis of the 18F(p,Î±)15O reaction at astrophysical energies. , 2015, , . | | 0 |
| 49 | Light elements burning reaction rates at stellar temperatures as deduced by the Trojan Horse measurements. , 2015, , . | | 0 |
| 50 | 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 |
| 51 | 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 |
| 52 | Study of the 17O(n,Î±)14C reaction: Extension of the Trojan Horse Method to neutron induced reactions. , 2014, , . | | 0 |
| 53 | The 18O(d,p)19O reaction and the ANC method. , 2014, , . | | 1 |
| 54 | 17O(p,Î±)14N reaction measurement at astrophysical energies. , 2014, , . | | 0 |

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| 55 | On the introduction of 17O+p reaction rates evaluated through the THM in AGB nucleosynthesis calculations. , 2014, , . | | 0 |
| 56 | The 17O(p,Î±)14N reaction measurement via the Trojan horse method and its application to 17O nucleosynthesis. , 2014, , . | | 0 |
| 57 | Measurement of the 10 keV resonance in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">B</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>10</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>p</mml:mi><mml:mo>, /<mml:mi mathvariant="normal">Be</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:. Physical Review C, 2014, 90, . | 2.9 | 52 |
| 58 | Trojan Horse Particle Invariance: An Extensive Study. Few-Body Systems, 2014, 55, 1001-1004. | 1.5 | 4 |
| 59 | NEW DETERMINATION OF THE<sup>2</sup>H(d,p)<sup>3</sup>H AND<sup>2</sup>H(d,n)<sup>3</sup>He REACTION RATES AT ASTROPHYSICAL ENERGIES. Astrophysical Journal, 2014, 785, 96. | 4.5 | 73 |
| 60 | Unscreened cross-sections for nuclear astrophysics via the Trojan Horse Method. Journal of Physics: Conference Series, 2014, 569, 012018. | 0.4 | 0 |
| 61 | New Advances in the Trojan Horse Method as an Indirect Approach to Nuclear Astrophysics. Few-Body Systems, 2013, 54, 745-753. | 1.5 | 29 |
| 62 | Experimental study of the18O(d, p)19O reaction and the ANC Method. Journal of Physics: Conference Series, 2013, 420, 012142. | 0.4 | 3 |
| 63 | Light element burning reactions at stellar temperatures in view of the recent THM measurements. EAS Publications Series, 2013, 63, 315-320. | 0.3 | 0 |
| 64 | Suppression of the centrifugal barrier effects in the off-energy-shell neutron<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>+</mml:mo><mml:msup><mml:mrow /><mml:mn>17</mml:mn></mml:msup><mml:mi mathvariant="bold">O</mml:mi></mml:mrow></mml:math>interaction. Physical Review C, 2013, 87, . | 2.9 | 54 |
| 65 | AN UPDATED<sup>6</sup>Li(p, Î±)<sup>3</sup>He REACTION RATE AT ASTROPHYSICAL ENERGIES WITH THE TROJAN HORSE METHOD. Astrophysical Journal, 2013, 768, 65. | 4.5 | 63 |
| 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 the<sup>19</sup>F(p, Î±)<sup>16</sup>O reaction in the THM framework. Journal of Physics: Conference Series, 2013, 420, 012139. | 0.4 | 1 |
| 68 | 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 |
| 69 | THE RGB AND AGB STAR NUCLEOSYNTHESIS IN LIGHT OF THE RECENT<sup>17</sup>O(p,) Tj ETQq1 1 0.784314 rgBT /Overlo Astrophysical Journal, 2013, 764, 128. | 4.5 | 47 |
| 70 | Clustering in Non-Self-Conjugate Nuclei. Progress of Theoretical Physics Supplement, 2012, 196, 184-191. | 0.1 | 10 |
| 71 | Light nuclear clusters to look into the bright stars. , 2012, , . | | 1 |
| 72 | New measurement of the<sup>11</sup>B(p,Î±<sub>0</sub>)<sup>8</sup>Be bare-nucleusS(E) factor via the Trojan horse method. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015106. | 3.6 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | [sup 2]H(d,p)[sup 3]H and [sup 2]H(d,n)[sup 3]He reactions at sub-coulomb energies. , 2012, , . | | 0 |
| 74 | 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 |
| 75 | The fluorine destruction in stars: First experimental study of the [sup 19]F(p,Î±)[sup 16]O reaction at astrophysical energies. , 2012, , . | | 0 |
| 76 | Trojan horse particle invariance studied with the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none | | |

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|---|---|---|---|
| 91 | Coulomb suppression in the low-energy p-p elastic scattering via the Trojan Horse Method. , 2010, , . | | 0 |
| 92 | A NOVEL APPROACH TO MEASURE THE CROSS SECTION OF THE<sup>18</sup>O(p, Î±)<sup>15</sup>N RESONANT REACTION IN THE 0-200 keV ENERGY RANGE. Astrophysical Journal, 2010, 708, 796-811. | 4.5 | 74 |
| 93 | The 65 keV resonance in the 17O(p,Î±)14N thermonuclear reaction. Nuclear Physics A, 2010, 834, 676c-678c. | 1.5 | 0 |
| 94 | Trojan Horse Method: recent applications in nuclear astrophysics. Nuclear Physics A, 2010, 834, 639c-642c. | 1.5 | 4 |
| 95 | 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 |
| 96 | DWBA momentum distribution and its effect on THM. Nuclear Physics A, 2010, 834, 658c-660c. | 1.5 | 11 |
| 97 | Trojan Horse Method: a useful tool for electron screening effect investigation. Nuclear Physics A, 2010, 834, 673c-675c. | 1.5 | 1 |
| 98 | Pole approximation validation in the study of the [sup 6]Li(d,Î±)[sup 4]He reaction. , 2010, , . | | 0 |
| 99 | Study of the<sup>6</sup>Li(n, Î±)<sup>3</sup>H reaction via the<sup>2</sup>H quasi-free break-up. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 125105. | 3.6 | 52 |
| 100 | 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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|---|---|---|---|
| 109 | Proton-proton elastic scattering via the Trojan horse method. Few-Body Systems, 2008, 43, 219-225. | 1.5 | 1 |
| 110 | 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 |
| 111 | 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 |
| 112 | Off-energy-shell<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>p</mml:mi></mml:mrow></mml:math>scat at sub-Coulomb energies via the Trojan horse method. Physical Review C, 2008, 78, . | 2.9 | 12 |
| 113 | The Trojan horse method in nuclear astrophysics: recent results. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014008. | 3.6 | 7 |
| 114 | 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 |
| 115 | Indirect measurement of the <sup>18</sup>O(p, Î±)<sup>15</sup>N reaction rate through the THM. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014014. | 3.6 | 20 |
| 116 | Recent Applications of the THM to the AGB Star Nucleosynthesis. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 117 | Indirect Measurements for (p,Î±) Reactions Involving Boron Isotopes. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 118 | RECENT ASTROPHYSICAL APPLICATIONS OF THE TROJAN HORSE METHOD TO NUCLEAR ASTROPHYSICS. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 119 | Measurement of the 20 and 90 keV 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 rgB mathvariant="normal">N</mml:mi></mml:mmultiscripts> | 7.8 | 65 |
| 120 | The trojan horse method as indirect technique in nuclear astrophysics. Journal of Physics: Conference Series, 2008, 111, 012033. | 0.4 | 0 |
| 121 | Suppression of the Coulomb Interaction in the Off-Energy-Shellpâ^'pScattering from thep+dâ†'p+p+nReaction. Physical Review Letters, 2007, 98, 252502. | 7.8 | 59 |
| 122 | Boron depletion: indirect measurement of the 10B(p,Î±)7Be S(E)-factor. Nuclear Physics A, 2007, 787, 309-314. | 1.5 | 39 |
| 123 | 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 |
| 124 | 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 |
| 125 | Neutron-Driven Nucleosynthesis in Stellar Plasma. Frontiers in Physics, 0, 10, . | 2.1 | 4 |