

Maria Grazia Pellegriti

List of Publications by Year in descending order

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109
papers

2,149
citations

218677

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45
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docs citations

111
times ranked

1119
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Reactions induced by the halo nucleus ^6He at energies around the Coulomb barrier. <i>Physical Review C</i> , 2004, 69, . | 2.9 | 216 |
| 2 | Elastic Scattering and Reaction Mechanisms of the Halo Nucleus ^6He around the Coulomb Barrier. <i>Physical Review Letters</i> , 2010, 105, 022701. | 7.8 | 163 |
| 3 | The Bare Astrophysical $S(E)$ Factor of the $^7\text{Li}(p, \hat{1}\pm)\hat{1}\pm$ Reaction. <i>Astrophysical Journal</i> , 2001, 562, 1076-1080. | 4.5 | 103 |
| 4 | The $^6\text{He}(p, \hat{1}\pm)^0)^6\text{He}$ reaction at sub-Coulomb energies via the Trojan-horse method. <i>Physical Review C</i> , 2004, 69, . | 2.9 | 103 |
| 5 | Experimental study of the collision $^6\text{He} + ^{11}\text{B}$ around the Coulomb barrier. <i>Physical Review C</i> , 2012, 85, . | 2.9 | 103 |
| 6 | $\hat{1}\pm$ Trojan horse $\hat{1}\pm$ method applied to $^2\text{H}(^6\text{Li}, \hat{1}\pm)^4\text{He}$ at astrophysical energies. <i>Physical Review C</i> , 2001, 63, . | 2.9 | 99 |
| 7 | The ^6He scattering and reactions on ^{12}C and cluster states of ^{14}C . <i>Nuclear Physics A</i> , 2004, 730, 285-298. | 1.5 | 83 |
| 8 | Validity test of the $\hat{1}\pm$ Trojan horse $\hat{1}\pm$ method applied to the $^6\text{Li}(p, \hat{1}\pm)^3\text{He}$ reaction. <i>Physical Review C</i> , 2003, 67, . | 2.9 | 71 |
| 9 | Sequential decay reactions induced by a 18 MeV ^6He beam on ^6Li and ^7Li . <i>Nuclear Physics A</i> , 2005, 753, 263-287. | 1.5 | 59 |
| 10 | Elastic scattering of ^6Li on ^6Li via $^6\text{Li} + ^6\text{Li}$ reaction. <i>Physical Review C</i> , 2005, 71, 044601. | 2.9 | 56 |
| 11 | Indirect study of the $^6\text{He} + ^6\text{Li}$ reaction. <i>Physical Review C</i> , 2005, 71, 044602. | 2.9 | 55 |
| 12 | Direct study of the $^6\text{He} + ^{12}\text{C}$ reaction. <i>Physical Review C</i> , 2005, 71, 044603. | 2.9 | 50 |
| 13 | Improved information on the $^2\text{H}(^6\text{Li}, \hat{1}\pm)^4\text{He}$ reaction extracted via the $\hat{1}\pm$ Trojan horse $\hat{1}\pm$ method. <i>Physical Review C</i> , 2001, 64, . | 2.9 | 46 |
| 14 | Deep sea tests of a prototype of the KM3NeT digital optical module. <i>European Physical Journal C</i> , 2014, 74, 1. | 3.9 | 46 |
| 15 | Heavy residue excitation functions for the collisions $^6, ^7\text{Li} + ^{64}\text{Zn}$ near the Coulomb barrier. <i>Physical Review C</i> , 2013, 87, . | 2.9 | 45 |
| 16 | Proton-induced lithium destruction cross-section and its astrophysical implications. <i>Astronomy and Astrophysics</i> , 2003, 398, 423-427. | 5.1 | 44 |
| 17 | Measurement of cross section and astrophysical factor of the $d(d, p)t$ reaction using the Trojan Horse Method. <i>Nuclear Physics A</i> , 2005, 758, 146-149. | 1.5 | 44 |
| 18 | Quasi-free $^6\text{Li}(n, \hat{1}\pm)^3\text{H}$ reaction at low energy from ^2H break-up. <i>European Physical Journal A</i> , 2005, 25, 649-650. | 2.5 | 43 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Light-particle emission in the reaction $6\text{He} + 64\text{Zn}$ around the Coulomb barrier. Europhysics Letters, 2003, 64, 309-315. | 2.0 | 37 |
| 20 | Indirect study of the $^{13}\text{C} + ^{16}\text{O}$ reaction. Physical Review Letters, 2009, 102, 162503. | 2.9 | 36 |
| 21 | Quasi-elastic backscattering of ^6Li on light, medium and heavy targets at near- and sub-barrier energies. European Physical Journal A, 2012, 48, 1. | 2.9 | 35 |
| 22 | Quasi-elastic backscattering of $^6,7\text{Li}$ on light, medium and heavy targets at near- and sub-barrier energies. European Physical Journal A, 2012, 48, 1. | 2.5 | 33 |
| 23 | Influence of the interstrip gap on the response and the efficiency of Double Sided Silicon Strip Detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 713, 11-18. | 1.6 | 32 |
| 24 | The prototype detection unit of the KM3NeT detector. European Physical Journal C, 2016, 76, 1. | 3.9 | 32 |
| 25 | An above-barrier narrow resonance in ^{15}F . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 26-31. | 4.1 | 31 |
| 26 | Discovery of a New Broad Resonance in ^{19}Ne : Implications for the Destruction of the Cosmic ^{13}C -Ray Emitter F18. Physical Review Letters, 2009, 102, 162503. | 7.8 | 27 |
| 27 | Quasielastic backscattering and barrier distributions for the $^6\text{Li} + ^{64}\text{Zn}$ systems. Physical Review C, 2013, 87, . | 2.9 | 23 |
| 28 | Measurement of the atmospheric muon depth intensity relation with the NEMO Phase-2 tower. Astroparticle Physics, 2015, 66, 1-7. | 4.3 | 21 |
| 29 | Cross-section of $^8\text{Li}(\alpha, n)^{11}\text{B}$: Inhomogeneous Big Bang nucleosynthesis. European Physical Journal A, 2004, 20, 355-358. | 2.5 | 20 |
| 30 | Indirect study of the astrophysically important $^{15}\text{O}(\hat{\pm}, \hat{\pm}^3)^{19}\text{Ne}$ reaction through $^2\text{H}(^{18}\text{Ne}, ^{19}\text{Ne})^1\text{H}$. Physical Review C, 2002, 66, . | 2.9 | 19 |
| 31 | On the magnitude of the $^8\text{Li} + ^4\text{He} \rightarrow ^{11}\text{B} + n$ 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 |
| 32 | Measurements of nuclear ^{13}C -ray line emission in interactions of protons and ^{13}C particles with N, O, Ne, and Si. Physical Review C, 2011, 83, . | 2.9 | 19 |
| 33 | Measuring total reaction cross-sections at energies near the coulomb barrier by the active target method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 612, 399-406. | 1.6 | 17 |
| 34 | Breakup and n -transfer effects on the fusion reactions $^6\text{Li} + ^{12}\text{C}$. Physical Review Letters, 2004, 93, 172501. | 2.9 | 17 |
| 35 | Indirect Study of the Astrophysically Relevant $^6\text{Li}(p, \hat{\pm})^3\text{He}$ Reaction by Means of the Trojan Horse Method. Progress of Theoretical Physics Supplement, 2004, 154, 341-348. | 0.1 | 16 |
| 36 | Reactions induced by 18 MeV ^6He beam on ^6Li , ^7Li and ^{12}C . Nuclear Physics A, 2004, 746, 183-187. | 1.5 | 14 |

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|----|--|-----|-----------|
| 37 | Evidence for core excitation in single-particle states of ^{19}Na . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 864-869. | 4.1 | 14 |
| 38 | States in ^{17}O excited in the $^{13}\text{C} + ^9\text{Be} \rightarrow ^{13}\text{C} + 2\alpha + n$ reaction at 90 MeV. European Physical Journal A, 2009, 41, 335-339. | 2.5 | 14 |
| 39 | Systems at near-barrier energy | | |
| 40 | Measurements of \hat{I}_{\pm} -decay half-lives at GSI. Physica Scripta, 2012, T150, 014028. | 2.5 | 12 |
| 41 | Improvements in data analysis obtained by large-area silicon \hat{I}^{E} - E detector telescopes. European Physical Journal A, 2015, 51, 1. | 2.5 | 12 |
| 42 | SOLVING THE LARGE DISCREPANCY BETWEEN INCLUSIVE AND EXCLUSIVE MEASUREMENTS OF THE $^8\text{Li} + ^4\text{He} \rightarrow ^{11}\text{B} + n$ REACTION CROSS SECTION AT ASTROPHYSICAL ENERGIES. Astrophysical Journal, 2009, 706, L251-L255. | 4.5 | 11 |
| 43 | Long term monitoring of the optical background in the Capo Passero deep-sea site with the NEMO tower prototype. European Physical Journal C, 2016, 76, 1. | 3.9 | 11 |
| 44 | Bare astrophysical S(E)-factor for the $^6\text{Li}(d, \hat{I}_{\pm})^4\text{He}$ and $^7\text{Li}(p, \hat{I}_{\pm})^4\text{He}$ reactions at astrophysical energies. Nuclear Physics A, 2003, 718, 496-498. | 1.5 | 10 |
| 45 | \hat{I}^{E} Neutron detection with low-intensity radioactive beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 783-790. | 1.6 | 10 |
| 46 | Two-proton pickup reaction ($^6\text{He}, ^8\text{Be}$) on $^{12}\text{C}, ^{16}\text{O}$, and ^{19}F . Physical Review C, 2004, 70, . | 2.9 | 9 |
| 47 | Toward correction-free $^8\text{Li}(\hat{I}_{\pm}, n)^{11}\text{B}$ data at the Gamow energy of explosive nucleosynthesis. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 105105. | 3.6 | 9 |
| 48 | Indirect study of the $^6\text{Li}(p, \hat{I}_{\pm})^3\text{He}$ reaction at astrophysical energies. Nuclear Physics A, 2003, 718, 499-501. | 1.5 | 8 |
| 49 | Study of the $^3\text{He}(d, p)^4\text{He}$ reaction through the Trojan Horse Method. Nuclear Physics A, 2005, 758, 98-101. | 1.5 | 8 |
| 50 | Structure effects on reaction mechanisms in collisions induced by radioactive ion beams. Physics of Atomic Nuclei, 2006, 69, 1366-1371. | 0.4 | 7 |
| 51 | Electron Screening Effects on \hat{I}_{\pm} -decay. , 2009, , . | | 7 |
| 52 | $\text{Li-}\hat{I}_{\pm}$ CLUSTER STATES IN ^{12}B USING $^8\text{Li} + ^4\text{He}$ INVERSE KINEMATICS ELASTIC SCATTERING. International Journal of Modern Physics E, 2011, 20, 1026-1029. | 1.0 | 7 |
| 53 | Determination of the half-life of ^{213}Fr with high precision. Physical Review C, 2013, 88, . | 2.9 | 7 |
| 54 | Status and first results of the NEMO Phase-2 tower. Journal of Instrumentation, 2014, 9, C03045-C03045. | 1.2 | 7 |

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|----|--|-----|-----------|
| 55 | Borromean nucleus reactions induced below the breakup threshold: ${}^6\text{He}+p$. Physical Review C, 2001, 63, . | 2.9 | 6 |
| 56 | The astrophysical factor for the ${}^{11}\text{B}(p, \hat{1}\pm 0){}^8\text{Be}$ reaction extracted via the Trojan Horse method. Nuclear Physics A, 2004, 738, 406-410. | 1.5 | 6 |
| 57 | In flight production of a ${}^8\text{Li}$ radioactive beam for Big Bang nucleosynthesis investigations at LNS Catania. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 406-415. | 1.6 | 6 |
| 58 | Transfer, sequential decay, and quasi-free reactions induced by 18-MeV ${}^6\text{He}$ beam on ${}^6\text{Li}$, ${}^7\text{Li}$, and ${}^{12}\text{C}$. Physics of Atomic Nuclei, 2006, 69, 1360-1365. | 0.4 | 6 |
| 59 | Halo effects on fusion cross section in ${}^4,6\text{He}+{}^{64}\text{Zn}$ collision around and below the coulomb barrier. Journal of Physics: Conference Series, 2011, 282, 012014. | 0.4 | 6 |
| 60 | The Inverse Kinematics Thick Target scattering method as a tool to study cluster states in exotic nuclei. Journal of Physics: Conference Series, 2012, 366, 012013. | 0.4 | 6 |
| 61 | A new device for combined Coulomb excitation and isomeric conversion electron spectroscopy with fast fragmentation beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 587, 292-299. | 1.6 | 5 |
| 62 | Fusion, elastic and total reaction cross sections in the collision ${}^6\text{Li}+{}^{64}\text{Zn}$. EPJ Web of Conferences, 2011, 17, 16018. | 0.3 | 5 |
| 63 | The Trojan-Horse Method applied to the ${}^6\text{Li}(p, \hat{1}\pm){}^3\text{He}$ reaction down to astrophysical energies. Nuclear Physics A, 2004, 734, 639-642. | 1.5 | 4 |
| 64 | ${}^6\text{He}$ quasi-free scattering off clusters in ${}^6\text{Li}$?. Europhysics Letters, 2006, 76, 801-807. | 2.0 | 4 |
| 65 | Evaluation of the ${}^{13}\text{N}(\hat{1}\pm, p){}^{16}\text{O}$ thermonuclear reaction rate and its impact on the isotopic composition of supernova grains. Physical Review C, 2020, 102, . | 2.9 | 4 |
| 66 | Elastic and break-up of the 1n-halo ${}^{11}\text{Be}$ nucleus. EPJ Web of Conferences, 2014, 66, 03023. | 0.3 | 3 |
| 67 | Underwater acoustic positioning system for the SMO and KM3NeT - Italia projects. , 2014, , . | | 3 |
| 68 | The trigger and data acquisition for the NEMO-Phase 2 tower. , 2014, , . | | 3 |
| 69 | ${}^{12}\text{C}$ states populated in $\text{B}^{10}+\text{B}^{10}$ reactions. Physical Review C, 2019, 99, . | 2.9 | 3 |
| 70 | The ${}^7\text{Li}(p, \hat{1}\pm){}^4\text{He}$ fusion reaction studied via the trojan horse method and its astrophysical implications. Nuclear Physics, Section B, Proceedings Supplements, 2003, 118, 455. | 0.4 | 2 |
| 71 | Study Of Reaction Mechanisms For ${}^{9,10,11}\text{Be}+{}^{64}\text{Zn}$ Systems Around The Coulomb Barrier. AIP Conference Proceedings, 2010, , . | 0.4 | 2 |
| 72 | STRUCTURE EFFECTS IN COLLISIONS INDUCED BY HALO AND WEAKLY BOUND NUCLEI AROUND THE COULOMB BARRIER. International Journal of Modern Physics E, 2010, 19, 1236-1240. | 1.0 | 2 |

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|----|---|------|-----------|
| 73 | Structure effects in the reactions $^9,^{10},^{11}\text{Be}+^{64}\text{Zn}$ at the Coulomb barrier. Journal of Physics: Conference Series, 2011, 267, 012012. | 0.4 | 2 |
| 74 | Elastic scattering and direct reactions of the $1n$ halo ^{11}Be nucleus on ^{64}Zn near the barrier. Journal of Physics: Conference Series, 2012, 381, 012050. | 0.4 | 2 |
| 75 | Elastic Scattering for the $^{11}\text{Be}+^{64}\text{Zn}$ System Close to the Coulomb Barrier. Acta Physica Polonica B, 2013, 44, 463. | 0.8 | 2 |
| 76 | Indirect study of $^{12}\text{C}(\hat{1}\pm, \hat{1}^3)^{16}\text{O}$ reaction. Journal of Physics: Conference Series, 2016, 665, 012007. | 0.4 | 2 |
| 77 | Few-body problems in nuclear astrophysics. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1413-S1415. | 3.6 | 1 |
| 78 | Quasi-bound low energy tail of resonance. AIP Conference Proceedings, 2007, , . | 0.4 | 1 |
| 79 | New pathways to bypass the ^{15}O waiting point. AIP Conference Proceedings, 2007, , . | 0.4 | 1 |
| 80 | Enhancement in the $^6\text{He}+^{64}\text{Zn}$ fusion cross section at energies around the barrier: static or dynamic effect?. EPJ Web of Conferences, 2011, 17, 16003. | 0.3 | 1 |
| 81 | Alpha structure of ^{12}B studied by elastic scattering of ^8Li EXCYT beam on ^4He thick target. Journal of Physics: Conference Series, 2011, 267, 012011. | 0.4 | 1 |
| 82 | Elastic Scattering and Fusion of ^6Li on ^{64}Zn at the Barrier. , 2011, , . | | 1 |
| 83 | Reactions induced by ^7Li beam and optimization of silicon detector telescope. , 2012, , . | | 1 |
| 84 | Measurement of $\text{Li}+\text{Sn}$ fusion excitation functions around the Coulomb barrier using an improved activation technique. EPJ Web of Conferences, 2014, 66, 03027. | 0.3 | 1 |
| 85 | Projectile structure effects in the collisions $^6,^7\text{Li}+^{64}\text{Zn}$ around the Coulomb barrier.. EPJ Web of Conferences, 2014, 66, 03022. | 0.3 | 1 |
| 86 | Long-term optical background measurements in the Capo Passero deep-sea site. , 2014, , . | | 1 |
| 87 | Fusion of the $^6\text{Li}+^{120}\text{Sn}$ and $^7\text{Li}+^{119}\text{Sn}$ and the role of neutron transfer and breakup processes. Journal of Physics: Conference Series, 2014, 515, 012006. | 0.4 | 1 |
| 88 | $^8\text{Li}+\hat{1}\pm$ resonant elastic scattering: a tool to study cluster states in ^{12}B . Journal of Physics: Conference Series, 2014, 569, 012024. | 0.4 | 1 |
| 89 | Fusion reaction studies with RIBs and possible experimental techniques. Progress in Particle and Nuclear Physics, 2001, 46, 317-318. | 14.4 | 0 |
| 90 | THE TROJAN HORSE METHOD APPLIED TO THE ASTROPHYSICALLY RELEVANT PROTON CAPTURE REACTIONS ON Li ISOTOPES. , 2004, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Reactions induced by ^{11}Be beam at Rex-Isolde. EPJ Web of Conferences, 2011, 17, 13001. | 0.3 | 0 |
| 92 | Structure effects and dynamics in fusion reactions of light weakly bound nuclei. Journal of Physics: Conference Series, 2011, 282, 012020. | 0.4 | 0 |
| 93 | Studying ^{12}B via ^8Li resonant scattering. , 2011, , . | | 0 |
| 94 | Elastic scattering of Beryllium isotopes near the Coulomb barrier. , 2011, , . | | 0 |
| 95 | Evidence of strong effects of the ^{11}Be halo structure on reaction processes at energies around the Coulomb barrier. Journal of Physics: Conference Series, 2011, 312, 082020. | 0.4 | 0 |
| 96 | Fusion Cross Section in the $^4\text{He}+^{64}\text{Zn}$ Collisions Around the Coulomb Barrier. , 2011, , . | | 0 |
| 97 | Studies on the response of double sided silicon strip detectors. , 2012, , . | | 0 |
| 98 | Fusion reactions in collisions induced by Li isotopes on Sn targets. , 2012, , . | | 0 |
| 99 | States in ^{10}Be populated in $^{6,7}\text{Li}+^{7,8}\text{Li}, ^{3,4}\text{He}+^{10}\text{Be}^*$ reactions at 30 and 52 MeV. Journal of Physics: Conference Series, 2013, 436, 012044. | 0.4 | 0 |
| 100 | Elastic scattering and heavy residue production in the collisions $^{6,7}\text{Li}+^{64}\text{Zn}$ around the Coulomb barrier. EPJ Web of Conferences, 2013, 63, 02019. | 0.3 | 0 |
| 101 | Comparison of the effects of couplings to breakup channels in reactions induced by ^6Li and ^6He on the same ^{64}Zn target. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 102 | Role of neutron transfer processes on the $^6\text{Li}+^{120}\text{Sn}$ and $^7\text{Li}+^{119}\text{Sn}$ fusion reactions. EPJ Web of Conferences, 2015, 88, 01004. | 0.3 | 0 |
| 103 | Effects of coupling to breakup channels in reactions induced by weakly bound and halo nuclei. EPJ Web of Conferences, 2016, 117, 06012. | 0.3 | 0 |
| 104 | Gamma beam characterization system for ELI-NP: The gamma absorption calorimeter. , 2016, , . | | 0 |
| 105 | Interesting states in $A = 10$ mass region, populated in $^{10}\text{B} + ^{10}\text{B}$ nuclear reactions. EPJ Web of Conferences, 2019, 223, 01027. | 0.3 | 0 |
| 106 | THE TROJAN HORSE METHOD IN NUCLEAR ASTROPHYSICS. , 2004, , . | | 0 |
| 107 | QUASI-FREE PROTON-PROTON ELASTIC SCATTERING IN THE TROJAN HORSE FRAMEWORK. , 2004, , . | | 0 |
| 108 | Structure of Light Nuclei Studied with $^7\text{Li} + ^{6,7}\text{Li}$ Reactions. Springer Proceedings in Physics, 2019, , 215-216. | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|----|-----------|
| 109 | Quasi-free ${}^6\text{Li}(n, \hat{1}\pm){}^3\text{H}$ reaction at low energy from ${}^2\text{H}$ break-up. , 2005, , 649-650. | | 0 |