

Emanuele Strano

List of Publications by Year in descending order

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115
papers

1,035
citations

394421

19
h-index

477307

29
g-index

117
all docs

117
docs citations

117
times ranked

779
citing authors

#	ARTICLE	IF	CITATIONS
1	Fusion of $^{40}\text{Ca} + ^{96}\text{Zr}$ revisited: Transfer couplings and hindrance far below the barrier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 639-644.	4.1	62
2	New Improved Indirect Measurement of the $^{19}\text{F}(p, \hat{1}\pm)^{16}\text{O}$ Reaction at Energies of Astrophysical Relevance. Astrophysical Journal, 2017, 845, 19.	4.5	56
3	Cross-section Measurement of the Cosmologically Relevant $^{7}\text{Be}(n, \hat{1}\pm)^{4}\text{He}$ Reaction over a Broad Energy Range in a Single Experiment. Astrophysical Journal, 2019, 879, 23.	4.5	49
4	Heavy residue excitation functions for the collisions $^{6,7}\text{Li} + ^{64}\text{Zn}$ near the Coulomb barrier. Physical Review C, 2013, 87, .	2.9	45
5	Elastic scattering for the $^{8}\text{Li} + ^{28}\text{Si}$ at near-barrier energies. Physical Review C, 2013, 88, 014607.	2.9	39
6	Transfer reactions $^{8}\text{Li} + ^{28}\text{Si}$ and $^{8}\text{Li} + ^{28}\text{Si}$ at near-barrier energies. Physical Review C, 2013, 88, 014607.	2.9	38
7	Fusion hindrance for the positive Q-value system $^{12}\text{C} + ^{30}\text{Si}$. Physical Review C, 2018, 97, .	2.9	36
8	The experimental set-up of the RIB in-flight facility EXOTIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 834, 46-70.	1.6	35
9	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
10	Total reaction cross sections for $^{8}\text{Li} + ^{90}\text{Zr}$ at near-barrier energies. European Physical Journal A, 2015, 51, 1.	2.5	33
11	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
12	Gamma-ray spectroscopy at MHz counting rates with a compact LaBr ₃ detector and silicon photomultipliers for fusion plasma applications. Review of Scientific Instruments, 2016, 87, 11E714.	1.3	31
13	Fusion of $^{7}\text{Li} + ^{28}\text{Si}$ at near-barrier energies. Physical Review C, 2013, 88, 014607.	2.9	30
14	Fusion of $^{28}\text{Si} + ^{28}\text{Si}$ at near-barrier energies. Physical Review C, 2013, 88, 014607.	2.9	27
15	Fusion of $^{48}\text{Ca} + ^{58}\text{Fe}$ at near-barrier energies. Physical Review C, 2013, 88, 014607.	2.9	27
16	Upgrade of the facility EXOTIC for the in-flight production of light Radioactive Ion Beams. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 223-226.	1.4	24
17	The high granularity and large solid angle detection array EXPADES. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 657-660.	1.4	24
18	Quasielastic backscattering and barrier distributions for the $^{6,7}\text{Li} + ^{64}\text{Zn}$ systems. Physical Review C, 2013, 87, .	2.9	23

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19	Evidence for O15+ $\hat{1}\pm$ resonance structures in Ne19 via direct measurement. Physical Review C, 2017, 96, .	2.9	21
20	Reexamination of scattering in inverse kinematics. Physical Review C, 2015, 91, .	2.9	20
21	Scattering in inverse kinematics. Physical Review C, 2015, 91, .	2.9	19
22	Production of ^3He in the $^7\text{Li} + ^{12}\text{C}$ reaction. Physical Review C, 2017, 95, .	2.9	19
23	Breakup of $^6\text{Li} + p$ at near-barrier energies and the effect on elastic scattering. Physical Review C, 2017, 95, .	2.9	19
24	Breakup and n -transfer effects on the fusion reactions $^6\text{Li} + ^{12}\text{C}$. Physical Review C, 2017, 95, .	2.9	17
25	Probing the cluster structure of ^7Li via elastic scattering on protons and deuterons in inverse kinematics. Physical Review C, 2016, 94, .	2.9	16
26	Exclusive breakup of ^7Li incident on a proton target at 5.44A MeV. Physical Review C, 2017, 95, .	2.9	16
27	Insight into the reaction dynamics of proton drip-line nuclear system $^{17}\text{F} + ^{58}\text{Ni}$ at near-barrier energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, Effects of coupling to breakup in the $^7\text{Li} + ^{12}\text{C}$ reaction. Physical Review C, 2017, 95, .	4.1	14
28	Effects of coupling to breakup in the $^7\text{Li} + ^{12}\text{C}$ reaction. Physical Review C, 2017, 95, .	4.1	14
29	Oscillations above the barrier in the fusion of $^{28}\text{Si} + ^{28}\text{Si}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 746, 300-304.	4.1	12
30	Improvements in data analysis obtained by large-area silicon $^{\hat{1}}\text{E} - \text{E}$ detector telescopes. European Physical Journal A, 2015, 51, 1.	2.5	12
31	Elastic scattering of ^7Li on ^{28}Si at near-barrier energies. Physical Review C, 2017, 95, .	2.9	12
32	MITA: A Multilayer Ionization-chamber Telescope Array for low-energy reactions with exotic nuclei. European Physical Journal A, 2019, 55, 1.	2.5	12
33	$^{17}\text{O} + ^{58}\text{Ni}$ scattering and reaction dynamics around the Coulomb barrier. Physical Review C, 2016, 94, .	2.9	11
34	New results in low-energy fusion of $^{40}\text{Ca} + ^{92}\text{Zr}$. Physical Review C, 2017, 95, .	2.9	11
35	Study of the $^6\text{Li} + p \rightarrow ^3\text{He} + 4\text{He}$ reaction in inverse kinematics. European Physical Journal A, 2015, 51, 1.	2.5	10
36	Important influence of single neutron stripping coupling on near-barrier $^8\text{Li} + ^{90}\text{Zr}$ quasi-elastic scattering. European Physical Journal A, 2015, 51, 1.	2.5	9

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37	Global description of the Li^7+p reaction at 5.44 MeV/u in a continuum-discretized coupled-channels approach. <i>Physical Review C</i> , 2017, 96, .	2.9	9
38	Isotopic effects in sub-barrier fusion of Si + Si systems. <i>Physical Review C</i> , 2018, 97, .	2.9	9
39	Li^{\pm} CLUSTER STATES IN ^{12}B USING $^8Li + ^4He$ INVERSE KINEMATICS ELASTIC SCATTERING. <i>International Journal of Modern Physics E</i> , 2011, 20, 1026-1029.	1.0	7
40	Determination of the half-life of ^{213}Fr with high precision. <i>Physical Review C</i> , 2013, 88, .	2.9	7
41	Evidence of dynamical dipole excitation in the fusion-evaporation of the $Ca^{40}+Sm^{152}$ heavy system. <i>Physical Review C</i> , 2016, 93, .	2.9	7
42	Coherent coupled-reaction-channels analysis of existing and new $p + ^{19}Be$ data between 1.7 and 15 MeV/nucleon. <i>Physical Review C</i> , 2019, 99, .	2.9	7
43	Be^9+p breakup at 5.67A MeV in a full kinematics approach. <i>Physical Review C</i> , 2020, 101, .	2.9	7
44	Halo effects on fusion cross section in $^4He + ^{64}Zn$ collision around and below the coulomb barrier. <i>Journal of Physics: Conference Series</i> , 2011, 282, 012014.	0.4	6
45	The Inverse Kinematics Thick Target scattering method as a tool to study cluster states in exotic nuclei. <i>Journal of Physics: Conference Series</i> , 2012, 366, 012013.	0.4	6
46	The $^7Li(d, p)^8Li$ reaction in inverse kinematics at 5.44 MeV/u. <i>European Physical Journal A</i> , 2017, 53, 1.	2.5	6
47	Fusion, elastic and total reaction cross sections in the collision $^6Li + ^{64}Zn$. <i>EPJ Web of Conferences</i> , 2011, 17, 16018.	0.3	5
48	Light response of YAP:Ce and LaBr ₃ :Ce scintillators to 40 MeV protons for applications to Telescope Proton Recoil neutron spectrometers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 820, 85-88.	1.6	4
49	$^7Be^-$ and $^8B^-$ reaction dynamics at Coulomb barrier energies. <i>EPJ Web of Conferences</i> , 2016, 117, 06006.	0.3	4
50	The Trojan Horse Method for nuclear astrophysics and its recent applications. <i>EPJ Web of Conferences</i> , 2017, 165, 01032.	0.3	4
51	Use of the facility EXOTIC for fusion-evaporation studies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 877, 293-299.	1.6	4
52	Fusion of $^{28}Si + ^{28}Si$: oscillations above the barrier and the behavior down to $1 < i > \frac{1}{4} < /i > b$. <i>EPJ Web of Conferences</i> , 2014, 66, 03082.	0.3	3
53	Reaction dynamics studies for the system $^7Be + ^{208}Pb$ at Coulomb barrier energies. <i>EPJ Web of Conferences</i> , 2017, 163, 00035.	0.3	3
54	Elastic scattering for the system ^6Li+p at near barrier energies with MAGNEX. , 2015, .		2

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55	The influence of the 2-neutron elastic transfer on the fusion of $^{42}\text{Ca} + ^{40}\text{Ca}$. EPJ Web of Conferences, 2016, 117, 08008.	0.3	2
56	Recent Results on Reactions with Weakly-bound Nuclei. Acta Physica Polonica B, 2013, 44, 437.	0.8	2
57	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
58	Elastic Scattering and Fusion of ^6Li on ^{64}Zn at the Barrier. , 2011, , .		1
59	Reactions induced by ^7Li beam and optimization of silicon detector telescope. , 2012, , .		1
60	Scattering process for the system $^7\text{Be} + ^{58}\text{Ni}$ at 23.2 MeV beam energy. Journal of Physics: Conference Series, 2013, 420, 012077.	0.4	1
61	Dynamical Dipole Mode in the ^{192}Pb Mass Region. Acta Physica Polonica B, 2013, 44, 605.	0.8	1
62	Elastic scattering measurement for the system $^{17}\text{O} + ^{58}\text{Ni}$ at Coulomb barrier energies with silicon strip detectors exploiting ASIC electronics. Journal of Physics: Conference Series, 2013, 420, 012071.	0.4	1
63	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
64	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
65	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
66	$^8\text{Li} + ^{12}\text{B}$ resonant elastic scattering: a tool to study cluster states in ^{12}B . Journal of Physics: Conference Series, 2014, 569, 012024.	0.4	1
67	Elastic scattering and transfer reactions for the system $^7\text{Be} + ^{58}\text{Ni}$ at Coulomb barrier energies. Journal of Physics: Conference Series, 2015, 639, 012002.	0.4	1
68	Fusion Hindrance and Quadrupole Collectivity in Collisions of $A \approx 50$ Nuclei: The Case of $^{48}\text{Ti} + ^{58}\text{Fe}$. EPJ Web of Conferences, 2015, 86, 00057.	0.3	1
69	Transfer couplings and hindrance far below the barrier for $^{40}\text{Ca} + ^{96}\text{Zr}$. EPJ Web of Conferences, 2015, 86, 00056.	0.3	1
70	Elastic scattering measurements for the system $^7\text{Be} + ^{28}\text{Si}$ at 17.2 MeV. , 2015, , .		1
71	The study of neutron-rich nuclei production in the region of the closed shell $N=126$ in the multi-nucleon transfer reaction $^{136}\text{Xe} + ^{208}\text{Pb}$. Journal of Physics: Conference Series, 2016, 703, 012020.	0.4	1
72	Elastic scattering of $^{17}\text{O} + ^{208}\text{Pb}$ at energies near the Coulomb barrier. EPJ Web of Conferences, 2016, 117, 08027.	0.3	1

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73	Fusion hindrance for the positive Q-value system $^{12}\text{C}+^{30}\text{Si}$. EPJ Web of Conferences, 2017, 163, 00019.	0.3	1
74	The RIB in-flight facility EXOTIC at INFN-LNL. EPJ Web of Conferences, 2017, 165, 01041.	0.3	1
75	$^{8}\text{B} + ^{208}\text{Pb}$ Elastic Scattering at Coulomb Barrier Energies. Journal of Physics: Conference Series, 2018, 966, 012010.	0.4	1
76	Sub-barrier fusion of Si+Si systems. EPJ Web of Conferences, 2017, 163, 00010.	0.3	1
77	Structure of ^{24}Mg Excited States and Their Influence on Nucleosynthesis. Acta Physica Polonica B, 2017, 48, 319.	0.8	1
78	Reactions induced by ^{11}Be beam at Rex-Isolde. EPJ Web of Conferences, 2011, 17, 13001.	0.3	0
79	Structure effects and dynamics in fusion reactions of light weakly bound nuclei. Journal of Physics: Conference Series, 2011, 282, 012020.	0.4	0
80	Studying ^{12}B via ^{8}Li resonant scattering. , 2011, , .		0
81	Elastic scattering of Beryllium isotopes near the Coulomb barrier. , 2011, , .		0
82	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
83	Fusion Cross Section in the $^{4,6}\text{He}+^{64}\text{Zn}$ Collisions Around the Coulomb Barrier. , 2011, , .		0
84	Studies on the response of double sided silicon strip detectors. , 2012, , .		0
85	Study of ^{24}Mg resonances relevant for carbon burning nucleosynthesis. , 2012, , .		0
86	Fusion reactions in collisions induced by Li isotopes on Sn targets. , 2012, , .		0
87	Energy reconstruction from PileUp events. , 2012, , .		0
88	States in ^{10}Be populated in $^{6,7}\text{Li}+^{7}\text{Li}, ^{3,4}\text{He}+^{10}\text{Be}^*$ reactions at 30 and 52 MeV. Journal of Physics: Conference Series, 2013, 436, 012044.	0.4	0
89	Study of ^{24}Mg resonances relevant to carbon burning nucleosynthesis. Journal of Physics: Conference Series, 2013, 436, 012074.	0.4	0
90	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

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91	Investigation of the Dynamical Dipole mode in the ^{192}Pb mass region. EPJ Web of Conferences, 2014, 66, 03069.	0.3	0
92	Transfervs. Breakup in the interaction of the ^7Be Radioactive Ion Beam with a ^{58}Ni target at Coulomb barrier energies. EPJ Web of Conferences, 2014, 66, 03060.	0.3	0
93	Direct and Compound Nucleus Reactions for the System $^7\text{Be} + ^{58}\text{Ni}$ at Near-barrier Energies. Acta Physica Polonica B, 2014, 45, 363.	0.8	0
94	Study of ^{24}Mg resonances relevant for carbon burning nucleosynthesis. , 2014, , .		0
95	Elastic scattering of ^{17}O ions from ^{58}Ni at near-barrier energies. EPJ Web of Conferences, 2014, 66, 03087.	0.3	0
96	Reaction dynamics induced by the radioactive ion beam ^7Be on medium-mass and heavy targets. AIP Conference Proceedings, 2015, , .	0.4	0
97	Dynamical Dipole mode in heavy-ion fusion reactions in the ^{192}Pb mass region. Journal of Physics: Conference Series, 2015, 590, 012052.	0.4	0
98	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
99	Reaction dynamics studies for the system $^7\text{Be}+^{58}\text{Ni}$. Journal of Physics: Conference Series, 2015, 590, 012057.	0.4	0
100	Dynamical Dipole mode in the $^{40,48}\text{Ca} + ^{152,144}\text{Sm}$ fusion reactions at 11 MeV/nucleon. EPJ Web of Conferences, 2016, 117, 08016.	0.3	0
101	Fusion reactions of $^{58,64}\text{Ni}+^{124}\text{Sn}$. EPJ Web of Conferences, 2016, 117, 08011.	0.3	0
102	$^{15}\text{O} + ^{19}\text{Ne}$ resonant elastic scattering to study cluster states in ^{19}Ne . Journal of Physics: Conference Series, 2017, 863, 012026.	0.4	0
103	Dynamical Dipole mode in heavy-ion fusion reactions. Journal of Physics: Conference Series, 2017, 863, 012060.	0.4	0
104	$^8\text{B} + ^{208}\text{Pb}$ Elastic Scattering at Coulomb Barrier Energies. EPJ Web of Conferences, 2017, 163, 00032.	0.3	0
105	Oxygen- $^{15}\text{O} + ^{19}\text{Ne}$ resonant elastic scattering to study cluster states in ^{19}Ne . Journal of Physics: Conference Series, 2017, 876, 012021.	0.4	0
106	Dynamical Dipole mode in heavy-ion fusion reactions. EPJ Web of Conferences, 2017, 163, 00043.	0.3	0
107	Pre-equilibrium GDR in a heavy composite system. Journal of Physics: Conference Series, 2018, 966, 012049.	0.4	0
108	Reaction Dynamics for the Systems ^7Be , $^8\text{B} + ^{208}\text{Pb}$ at Coulomb Barrier Energies. Journal of Physics: Conference Series, 2018, 1078, 012013.	0.4	0

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109	^7Be and ^8B reaction dynamics at Coulomb barrier energies. EPJ Web of Conferences, 2018, 184, 02015.	0.3	0
110	Neutron-rich Nuclei Populated in Multi-nucleon Transfer Reactions: the $^{197}\text{Au}+^{130}\text{Te}$ System. Acta Physica Polonica B, 2017, 48, 609.	0.8	0
111	Discrimination of Processes and Optical Model Analysis in the $^{17}\text{O}+^{58}\text{Ni}$ Collision Around the Coulomb Barrier. Acta Physica Polonica B, 2017, 48, 615.	0.8	0
112	The Cosmologically Relevant $^7\text{Be}(n, \alpha)^4\text{He}$ Reaction in View of the Recent THM Investigations. Springer Proceedings in Physics, 2019, , 53-56.	0.2	0
113	Structure of Light Nuclei Studied with $^7\text{Li}+^{6,7}\text{Li}$ Reactions. Springer Proceedings in Physics, 2019, , 215-216.	0.2	0
114	A clear signature of the breakup modes for ^9Be on a proton target at 5.6 MeV/nucleon. Journal of Physics: Conference Series, 2020, 1643, 012102.	0.4	0
115	Direct processes for the systems $^7\text{Be}, ^8\text{B} + ^{208}\text{Pb}$ at Coulomb barrier energies. Journal of Physics: Conference Series, 2020, 1643, 012096.	0.4	0