

Vasileios Soukeras

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

1,182
citations

361413

20
h-index

414414

32
g-index

101
all docs

101
docs citations

101
times ranked

465
citing authors

#	ARTICLE	IF	CITATIONS
1	The NUMEN project: NUclear Matrix Elements for Neutrinoless double beta decay. European Physical Journal A, 2018, 54, 1.	2.5	146
2	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
3	Analysis of two-nucleon transfer reactions in the ${}^{20}\text{Ne}({}^{29}\text{Cd}, {}^{42}\text{Zn}){}^{116}\text{Sn}$ system at 306 MeV. Physical Review C, 2020, 103.	2.9	42
4	An upgraded focal plane detector for the MAGNEX spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 989, 164918.	1.6	41
5	Neutron decay of ${}^8\text{B} + \hat{1}\pm$ Si at near-barrier energies. Physical Review C, 2013.	2.9	39
6	Resonances by measurements of neutron ${}^{15}\text{C}$ and ${}^{18}\text{B}$ in ${}^{116}\text{Sn}$. Physical Review C, 1996, 54.	2.9	38
7	Neutron decay of ${}^8\text{B}$ and ${}^7\text{Li}$ in ${}^{116}\text{Sn}$. Physical Review C, 1996, 54.	2.9	38
8	First Measurement of the ${}^{116}\text{Cd}({}^{20}\text{Ne}, {}^{20}\text{O}){}^{116}\text{Sn}$ Reaction at 15, \$A\$, MeV. Acta Physica Polonica B, 2018, 49, 275.	0.8	37
9	Analysis of two-nucleon transfer reactions in the ${}^{20}\text{Ne}({}^{29}\text{Ge}, {}^{36}\text{Zn}){}^{116}\text{Sn}$ elastic and inelastic scattering at 306 MeV. Physical Review C, 2019, 100.	2.9	36
10	The MAGNEX magnetic spectrometer for double charge exchange reactions. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 334-338.	1.4	35
11	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
12	A Constrained Analysis of the ${}^{40}\text{Ca}(18\text{O}, 18\text{F}){}^{40}\text{K}$ Direct Charge Exchange Reaction Mechanism at 275 MeV. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	32
13	Direct and compound-nucleus reaction mechanisms in the ${}^7\text{Be}({}^{40}\text{Ca}, {}^{36}\text{Ar}){}^{116}\text{Sn}$ reaction. Physical Review C, 2019, 100.	2.9	30
14	Analysis of two-proton transfer in the ${}^{38}\text{K}({}^{40}\text{Ca}, {}^{36}\text{Ar}){}^{116}\text{Sn}$ reaction. Physical Review C, 2019, 100.	2.9	30

#	ARTICLE	IF	CITATIONS
19	ence of direct reaction channels at deep sub-barrier energies for weakly bound nuclei on heavy targets: The case $B_8 + Pb$ Multichannel experimental and theoretical constraints for the $B_8 + Pb$ system Physical Review Letters, 2018, 121, 112701.	2.9	23
20	Charge-state distributions of ^{20}Ne ions emerging from thin foils. Results in Physics, 2019, 13, 102191.	4.1	22
21			

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37	Global descriptions and decay rates for continuum excitation of weakly bound nuclei. European Physical Journal A, 2021, 57, 1.	2.5	11
38	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
39	First comparison of GEANT4 hadrontherapy physics model with experimental data for a NUMEN project reaction case. European Physical Journal A, 2020, 56, 1.	2.5	10
40	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
41	Global description of the $\text{Li}7+p$ reaction at 5.44 MeV/u in a continuum-discretized coupled-channels approach. Physical Review C, 2017, 96, .	2.9	9
42	Coherent coupled-reaction-channels analysis of existing and new $p + \text{Be}9$ data between 1.7 and 15 MeV/nucleon. Physical Review C, 2019, 99, .	2.9	7
43	$\text{Be}9+p$ breakup at 5.67A MeV in a full kinematics approach. Physical Review C, 2020, 101, .	2.9	7
44	Identification of medium mass ($A=60\text{--}80$) ejectiles from 15 MeV/nucleon peripheral heavy-ion collisions with the MAGNEX large-acceptance spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1031, 166588.	1.6	7
45	The $7\text{Li}(d, p)8\text{Li}$ reaction in inverse kinematics at 5.44 MeV/u. European Physical Journal A, 2017, 53, 1.	2.5	6
46	Low energy proton induced reactions with weakly bound nuclei for application purposes. European Physical Journal A, 2021, 57, 1.	2.5	6
47	Global study of $\text{Be}9$ at $2.72A$ MeV in a full kinematics approach. Physical Review C, 2020, 101, .	2.9	6
48	NURE: An ERC project to study nuclear reactions for neutrinoless double beta decay. , 2017, , .		6
49	BACKWARD ANGLE STRUCTURE IN THE $^{20}\text{Ne} + ^{28}\text{Si}$ QUASIELASTIC SCATTERING. International Journal of Modern Physics E, 2013, 22, 1350073.	1.0	5
50	7Be - and 8B -reaction dynamics at Coulomb barrier energies. EPJ Web of Conferences, 2016, 117, 06006.	0.3	4
51	The Trojan Horse Method for nuclear astrophysics and its recent applications. EPJ Web of Conferences, 2017, 165, 01032.	0.3	4
52	Proton inelastic scattering in inverse kinematics as a mean for determining decay rates in continuum: The $9\text{Be} + \alpha$ case. Nuclear Physics A, 2021, 1008, 122155.	1.5	4
53	A Microscopic Approach for $p + ^9\text{Be}$ at Energies Between 1.7 to 15 MeV/nucleon. Acta Physica Polonica B, 2019, 50, 1547.	0.8	4
54	Reaction dynamics studies for the system $7\text{Be} + ^{208}\text{Pb}$ at Coulomb barrier energies. EPJ Web of Conferences, 2017, 163, 00035.	0.3	3

#	ARTICLE	IF	CITATIONS
55	Study of the reaction ^{70}Zn (15 MeV/nucleon) + ^{64}Ni with the MAGNEX spectrometer for the production of neutron-rich isotopes. EPJ Web of Conferences, 2021, 252, 07005.	0.3	3
56	Total reaction cross sections at near barrier energies for $^6,7\text{Li}$ on various targets. European Physical Journal A, 2014, 50, 1.	2.5	2
57	Elastic scattering for the system $^6\text{Li}+p$ at near barrier energies with MAGNEX. , 2015, , .		2
58	Study of the scattering of ^{15}C at energies around the Coulomb barrier. Journal of Physics: Conference Series, 2020, 1643, 012095.	0.4	2
59	Elastic scattering measurements for the system $^7\text{Be}+^{28}\text{Si}$ at 17.2 MeV. , 2015, , .		1
60	The nuclear matrix elements of $0\nu\bar{\nu}\bar{\nu}\bar{\nu}$ decay and the NUMEN project at INFN-LNS. Journal of Physics: Conference Series, 2016, 730, 012006.	0.4	1
61	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
62	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2017, , .	0.4	1
63	The nuclear matrix elements of $0\nu\bar{\nu}\bar{\nu}\bar{\nu}$ decay and the NUMEN project at INFN-LNS. EPJ Web of Conferences, 2018, 194, 02001.	0.3	1
64	Measuring nuclear reaction cross sections to extract information on neutrinoless double beta decay. Journal of Physics: Conference Series, 2018, 966, 012021.	0.4	1
65	Experimental challenges in the measurement of double charge exchange reactions within the NUMEN project. Journal of Physics: Conference Series, 2018, 1078, 012008.	0.4	1
66	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2019, , .	0.4	1
67	Upgrade of the MAGNEX spectrometer toward the high-intensity phase of NUMEN. EPJ Web of Conferences, 2021, 252, 03003.	0.3	1
68	Study of the $^4\text{He}(^4\text{He},^4\text{He})^4\text{He}^*$ inelastic scattering at the MAGNEX facility. EPJ Web of Conferences, 2021, 252, 04007.	0.3	1
69	Halo Effects in the Low-energy Scattering of ^{15}C with Heavy Targets. Acta Physica Polonica B, 2020, 51, 731.	0.8	1
70	Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS. Journal of Physics: Conference Series, 2020, 1643, 012074.	0.4	1
71	Energy reconstruction from PileUp events. , 2012, , .		0
72	Elastic scattering of ^{17}O ions from ^{58}Ni at near-barrier energies. EPJ Web of Conferences, 2014, 66, 03087.	0.3	0

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73	Reaction dynamics induced by the radioactive ion beam ^7Be on medium-mass and heavy targets. AIP Conference Proceedings, 2015, , .	0.4	0
74	Neutron decay of the Giant Pairing Vibration in ^{15}C . Journal of Physics: Conference Series, 2016, 724, 012006.	0.4	0
75	Post-stripper study for the (^{20}Ne , ^{20}O) double charge exchange reaction at zero degrees with the MAGNEX spectrometer. Journal of Physics: Conference Series, 2018, 1056, 012052.	0.4	0
76	Experimental challenges for the measurement of the $^{116}\text{Cd}(^{20}\text{Ne}, ^{20}\text{O})^{116}\text{Sn}$ double charge exchange reaction at 15 AMeV. Journal of Physics: Conference Series, 2018, 1023, 012006.	0.4	0
77	Data reduction for experimental measurements within the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012010.	0.4	0
78	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
79	Experimental issues for the measurement of the double charge exchange reactions within the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012011.	0.4	0
80	Heavy-ion particle identification for the transfer reaction channels for the system $^{18}\text{O} + ^{116}\text{Sn}$ under the NUMEN Project. Journal of Physics: Conference Series, 2018, 1056, 012015.	0.4	0
81	^7Be and ^8B reaction dynamics at Coulomb barrier energies. EPJ Web of Conferences, 2018, 184, 02015.	0.3	0
82	Recent results on Heavy-Ion induced reactions of interest for $0^+ \rightarrow 1/2^- \rightarrow 2^+$ decay. Journal of Physics: Conference Series, 2019, 1308, 012002.	0.4	0
83	New experimental campaign of NUMEN project. AIP Conference Proceedings, 2019, , .	0.4	0
84	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2019, , .	0.4	0
85	Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS. EPJ Web of Conferences, 2019, 223, 01009.	0.3	0
86	Study of continuum excitation by light weakly bound projectiles on proton target. EPJ Web of Conferences, 2019, 223, 01058.	0.3	0
87	New Results from the NUMEN Project. , 2020, , .		0
88	Recent results on heavy-ion direct reactions of interest for $0^+ \rightarrow 1/2^- \rightarrow 2^+$ decay at INFN - LNS. Journal of Physics: Conference Series, 2020, 1610, 012004.	0.4	0
89	Searching for treasures at sub-barrier energies: the case of ^8B and ^7Be . EPJ Web of Conferences, 2021, 252, 04006.	0.3	0
90	Recent results for the one-proton transfer reaction in the $^{18}\text{O} + ^{48}\text{Ti}$ collision at 275 MeV. EPJ Web of Conferences, 2021, 252, 04002.	0.3	0

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91	Recent experimental activity on heavy-ion induced reactions within the NUMEN project. EPJ Web of Conferences, 2021, 252, 04001.	0.3	0
92	Low energy proton induced reactions for CANS applications. EPJ Web of Conferences, 2021, 252, 06002.	0.3	0
93	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
94	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
95	New results from the NUMEN project. , 2019, , .		0
96	A clear signature of the breakup modes for ^{9}Be on a proton target at 5.6 MeV/nucleon. Journal of Physics: Conference Series, 2020, 1643, 012102.	0.4	0
97	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
98	Study of the $(^{6}\text{Li}+p)$ and $(^{7}\text{Li}+p)$ Systems in the Continuum Discretized Coupled Channels Approach. Acta Physica Polonica B, 2020, 51, 737.	0.8	0
99	Background estimate in heavy-ion two-body reactions measured by the MAGNEX spectrometer. Journal of Physics: Conference Series, 2020, 1643, 012019.	0.4	0