

Seweryn Kowalski

List of Publications by Year in descending order

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141
papers

4,427
citations

117625

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docs citations

142
times ranked

2367
citing authors

#	ARTICLE	IF	CITATIONS
1	$\phi(892)^0$ meson production in inelastic p+p interactions at 40 and 80 $\sqrt{s_{NN}}$ GeV beam momenta measured by NA61/SHINE at the CERN SPS. European Physical Journal C, 2022, 82, 1.	3.9	3
2	Nuclear temperature and its dependence on the source neutron-proton asymmetry deduced using the Albergo thermometer. Physical Review C, 2021, 103, .	2.9	1
3	Measurements of multiplicity fluctuations of identified hadrons in inelastic proton-proton interactions at the CERN Super Proton Synchrotron. European Physical Journal C, 2021, 81, 1.	3.9	3
4	Spectra and mean multiplicities of π^0 in central $^{40}\text{Ar}+^{45}\text{Sc}$ collisions at 13A, 19A, 30A, 40A, 75A and 150 $\sqrt{s_{NN}}$ GeV beam momenta measured by the NA61/SHINE spectrometer at the CERN SPS. European Physical Journal C, 2021, 81, 1.	3.9	8
5	Measurements of π^0 , K^0_S , p and Λ spectra in $^{7}\text{Be}+^{9}\text{Be}$ collisions at beam momenta from 19A to 150 $\sqrt{s_{NN}}$ GeV with the NA61/SHINE spectrometer at the CERN SPS. European Physical Journal C, 2021, 81, 1.	3.9	7
6	Measurement of the production cross section of Λ protons on carbon via beam attenuation in a 90-cm-long target. Physical Review D, 2021, 103, .	4.7	3
7	Measurements of Λ and $\bar{\Lambda}$ production in proton-proton interactions at $\sqrt{s_{NN}} = 17.3$ $\sqrt{s_{NN}}$ GeV in the NA61/SHINE experiment. European Physical Journal C, 2021, 81, 1.	3.9	2
8	Λ and $\bar{\Lambda}$ Conjugate Fragment Decay from the Disassembly of ^{28}Si at Very High Excitation Energy. , 2020, , .		0
9	Measurements of Λ and $\bar{\Lambda}$ production in proton-proton interactions at $\sqrt{s_{NN}} = 17.3$ $\sqrt{s_{NN}}$ GeV in the NA61/SHINE experiment. European Physical Journal C, 2020, 80, 1.	3.9	8
10	Proton-proton interactions and onset of deconfinement. Physical Review C, 2020, 102, .	2.9	10
11	Measurement of ϕ meson production in p + p interactions at 40, 80 and 158 $\sqrt{s_{NN}}$ GeV with the NA61/SHINE spectrometer at the CERN SPS. European Physical Journal C, 2020, 80, 1.	3.9	8
12	Search for an exotic $S=\bar{a}^2, Q=\bar{a}^2$ baryon resonance in proton-proton interactions at $\sqrt{s_{NN}}=17.3$ $\sqrt{s_{NN}}$ GeV. Physical Review D, 2020, 101, .	4.7	1
13	Λ Detector System for Searching Long Lived Heaviest Nuclei in Activated Scintillators. , 2020, , .		0
14	Two-particle correlations in azimuthal angle and pseudorapidity in central $^{7}\text{Be}+^{9}\text{Be}$ collisions at the CERN Super Proton Synchrotron. European Physical Journal C, 2020, 80, 1.	3.9	0
15	Measurements of π^0 production in $^{7}\text{Be} + ^{9}\text{Be}$ collisions at beam momenta from 19A to 150 $\sqrt{s_{NN}}$ GeV in the NA61/SHINE experiment at the CERN SPS. European Physical Journal C, 2020, 80, 1.	3.9	5
16	Probing the neutron-proton asymmetry dependence of the nuclear source temperature with light charged particles. Physical Review C, 2020, 101, .	2.9	3
17	$\phi(892)^0$ meson production in inelastic p+p interactions at 158 $\sqrt{s_{NN}}$ GeV beam momentum measured by NA61/SHINE at the CERN SPS. European Physical Journal C, 2020, 80, 1.	3.9	10
18	Development of Si Beam Position Detectors for NA61/SHINE experiment. Journal of Physics: Conference Series, 2020, 1690, 012050.	0.4	0

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37	Experimental survey of the production of Λ^{\pm} -decaying heavy elements in heavy ion collisions. Physical Review C, 2017, 95, .	2.9	27
38	A Novel Experimental Setup for Rare Events Selection and Its Potential Application to Super-heavy Elements Search. Acta Physica Polonica B, 2018, 49, 1801.	0.8	2
39	Challenges in QCD matter physics –The scientific programme of the Compressed Baryonic Matter experiment at FAIR. European Physical Journal A, 2017, 53, 1.	2.5	222
40	Chemical potential and symmetry energy for intermediate-mass fragment production in heavy ion reactions near the Fermi energy. Physical Review C, 2017, 95, .	2.9	1
41	-conjugate neck structures in the collisions of 35 MeV/nucleon ^{40}Ca with ^{40}Ca . Physical Review C, 2017, 95, .	2.9	16
42	NA61/SHINE Collaboration. Nuclear Physics A, 2017, 967, 994-995.	1.5	5
43	Two-particle correlations in azimuthal angle and pseudorapidity in inelastic p + p interactions at the CERN Super Proton Synchrotron. European Physical Journal C, 2017, 77, 1.	3.9	12
44	Measurement of meson resonance production in $\pi^+ + \pi^- + C$ interactions at SPS energies. European Physical Journal C, 2017, 77, 1.	3.9	15
45	Measurements of $\pi^{\pm} K^{\pm}$, $K^{\pm} p$ and Λ^{\pm} . European Physical Journal C, 2017, 77, 1.	3.9	83
46	A novel approach to the island of stability of super-heavy elements search. EPJ Web of Conferences, 2016, 117, 01003.	0.3	4
47	Properties of excited $A = 40$ nuclear systems with varying matter composition. EPJ Web of Conferences, 2016, 117, 07021.	0.3	0
48	Measurements of $\pi^{\pm} \Lambda^{\pm}$ differential yields from the surface of the T2K replica target for incoming 31 GeV/c protons with the NA61/SHINE spectrometer at the CERN SPS. European Physical Journal C, 2016, 76, 1.	3.9	24
49	Multiplicity and transverse momentum fluctuations in inelastic proton-proton interactions at the CERN Super Proton Synchrotron. European Physical Journal C, 2016, 76, 1.	3.9	32
50	Measurements of $\pi^{\pm} \Lambda^{\pm}$, $K^{\pm} K^{\pm}$, $K^0_S K^0_S$, $\Lambda^{\pm} p$ and proton production in proton-carbon interactions at 31 GeV/c with the NA61/SHINE spectrometer at the CERN SPS. European Physical Journal C, 2016, 76, 1.	3.9	78
51	Production of Λ^{\pm} -hyperons in inelastic p+p interactions at 158 GeV/c. European Physical Journal C, 2016, 76, 1.	3.9	20
52	Investigation of the Freeze-out Configuration in the $^{197}\text{Au} + ^{197}\text{Au}$ Reaction at 23 A MeV. Acta Physica Polonica B, 2016, 47, 975.	0.8	1
53	A Scintillating Fibre System Readout by SiPMs for Precise Time and Position Measurements. , 2016, , .		0
54	Freeze-out configuration properties in the $^{197}\text{Au} + ^{197}\text{Au}$ reaction at 23 A MeV. Physical Review C, 2015, 92, .	2.9	8

#	ARTICLE	IF	CITATIONS
55	Clustering in alpha conjugate nuclei. EPJ Web of Conferences, 2015, 88, 00024.	0.3	0
56	Advanced mathematical on-line analysis in nuclear experiments. Usage of parallel computing CUDA routines in standard root analysis. EPJ Web of Conferences, 2015, 88, 01007.	0.3	0
57	Production cross sections for intermediate mass fragments from dynamical and statistical decay of projectile-like fragments in Sn124+Ni64 and Sn112+Ni58 collisions at 35 A MeV. Physical Review C, 2015, 91, .	2.9	24
58	Reconstructed primary fragments and symmetry energy, temperature and density of the fragmenting source in Zn64+Sn112 at 40 A MeV/nucleon. Nuclear Physics A, 2015, 933, 290-305.	1.5	14
59	Experimental Search for Super and Hyper Heavy Nuclei at Cyclotron Institute Texas A&M University. Acta Physica Polonica B, 2014, 45, 279.	0.8	5
60	Experimental reconstruction of primary hot isotopes and characteristic properties of the fragmenting source in heavy-ion reactions near the Fermi energy. Physical Review C, 2014, 90, .	2.9	18
61	Measurements of production properties of hyperons in proton-carbon interactions at 3.1 A GeV. Physical Review C, 2014, 89, .	2.9	28
62	CBM Collaboration. Nuclear Physics A, 2014, 931, 1222-1227.	1.5	0
63	Novel determination of density, temperature, and symmetry energy for nuclear multifragmentation through primary fragment-yield reconstruction. Physical Review C, 2014, 89, .	2.9	25
64	Measurement of negatively charged pion spectra in inelastic p+p interactions at $p_{\text{lab}} = 20, 31, 40, 80$ and $158 \text{ A GeV}/c$. European Physical Journal C, 2014, 74, 1.	3.9	83
65	NA61/SHINE facility at the CERN SPS: beams and detector system. Journal of Instrumentation, 2014, 9, P06005-P06005.	1.2	170
66	Isospin Against Size Effects In Projectile Dynamical Fission For $^{112,124}\text{Sn} + ^{58,64}\text{Ni}$ and $^{124}\text{Xe} + ^{64}\text{Zn}$ Reactions At 35 A.MeV. Journal of Physics: Conference Series, 2014, 515, 012020.	0.4	2
67	Density determinations in heavy ion collisions. Physical Review C, 2013, 88, .	2.9	17
68	Experimental reconstruction of excitation energies of primary hot isotopes in heavy ion collisions near the Fermi energy. Physical Review C, 2013, 88, .	2.9	15
69	Average neutron detection efficiency for DEMON detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 709, 68-71.	1.6	6
70	Pion emission from the T2K replica target: Method, results and application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 701, 99-114.	1.6	36
71	Probing clusterization in $^{40}\text{Ca} + ^{40}\text{Ca}$ reaction at 35 MeV A. Journal of Physics: Conference Series, 2013, 420, 012088.	0.4	1
72	In-Medium phenomena in Low Density Nuclear Matter. Journal of Physics: Conference Series, 2013, 420, 012086.	0.4	0

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91	A novel approach to isoscaling: The role of the order parameter. Nuclear Physics A, 2010, 847, 233-242.	1.5	41
92	Observation of fast collinear partitioning of the Au197+Au197 system into three and four fragments of comparable size. Physical Review C, 2010, 81, .	2.9	24
93	Symmetry Energy of Dilute Warm Nuclear Matter. Physical Review Letters, 2010, 104, 202501.	7.8	141
94	Isoscaling and the symmetry energy in the multifragmentation regime of heavy-ion collisions. Physical Review C, 2010, 81, .	2.9	39
95	Strong enhancement of dynamical emission of heavy fragments in the neutron-rich Sn124+Ni64 reaction at 35 A MeV. Physical Review C, 2010, 81, .	2.9	31
96	Isospin dependence of the nuclear equation of state near the critical point. Physical Review C, 2010, 81, .	2.9	41
97	Isobaric yield ratios and the symmetry energy in heavy-ion reactions near the Fermi energy. Physical Review C, 2010, 81, .	2.9	75
98	Aligned breakup of heavy nuclear systems as a new type of deep inelastic collisions at small impact parameters. Physical Review C, 2010, 81, .	2.9	20
99	Power law behavior of the isotope yield distributions in the multifragmentation regime of heavy ion reactions. Physical Review C, 2010, 82, .	2.9	36
100	LOW DENSITY NUCLEAR MATTER IN FERMI ENERGY COLLISIONS. International Journal of Modern Physics E, 2010, 19, 1513-1522.	1.0	0
101	THE ISOSPIN DEPENDENCE OF THE NUCLEAR PHASE TRANSITION NEAR THE CRITICAL POINT. International Journal of Modern Physics E, 2010, 19, 1570-1576.	1.0	1
102	Hadro-Production Measurements to Characterize the T2K Neutrino Flux with the NA61 Experiment at the CERN SPS. , 2010, , .		0
103	Isospin effects in projectile-like dynamical fission for [^{112,124} Sn]+[^{58,64} Ni] reactions at 35 A MeV. , 2009, , .		0
104	NEW EXPERIMENTAL APPROACH FOR HEAVY AND SUPERHEAVY ELEMENT PRODUCTION. International Journal of Modern Physics E, 2009, 18, 1036-1043.	1.0	4
105	Ion program of NA61/SHINE at the CERN SPS. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064039.	3.6	20
106	Isospin Effects in Heavy-Ion Collisions: Some Results From CHIMERA Experiments At LNS And Perspectives With Radioactive Beams. , 2009, , .		0
107	The NA61/SHINE Collaboration. Nuclear Physics A, 2009, 830, 961c-962c.	1.5	0
108	The CBM Collaboration. Nuclear Physics A, 2009, 830, 942c-944c.	1.5	1

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109	The NA61/SHINE Experiment at the CERN SPS. Nuclear Physics A, 2009, 830, 559c-562c.	1.5	6
110	Metallic Magnetic Calorimeters for Beta Spectrometry. , 2009, , .		2
111	RE-SEPARATION MODES OF ¹⁹⁷ Au + ¹⁹⁷ Au SYSTEM AT SUB-FERMI ENERGIES. International Journal of Modern Physics E, 2008, 17, 41-52.	1.0	9
112	Quantum Nature of a Nuclear Phase Transition. Physical Review Letters, 2008, 101, 122702.	7.8	47
113	Centrality dependence of isospin effect signatures in Sn124+64Ni and Sn112+Ni58 reactions. Physical Review C, 2008, 77, .	2.9	22
114	Fast Ternary and Quaternary Breakup of the Au197+Au197 System in Collisions at 15 MeV/nucleon. Physical Review Letters, 2008, 101, 262701.	7.8	35
115	TERNARY REACTIONS IN 197AU + 197AU COLLISIONS REVISITED. International Journal of Modern Physics E, 2007, 16, 511-515.	1.0	11
116	Dynamical multi-breakup processes in the Sn124+Ni64 system at 35 MeV/nucleon. Physical Review C, 2007, 75, .	2.9	34
117	Experimental determination of the symmetry energy of a low density nuclear gas. Physical Review C, 2007, 75, .	2.9	109
118	Properties of the initial participant matter interaction zone in near-Fermi-energy heavy-ion collisions. Physical Review C, 2007, 75, .	2.9	3
119	The detector system of the BigSol spectrometer at Texas A & M. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 605-614.	1.4	6
120	Clustering and Symmetry Energy in a Low Density Nuclear Gas. Nuclear Physics A, 2007, 787, 619-626.	1.5	2
121	Response of YAP:Ce scintillators to energetic heavy ions. Journal of Physics: Conference Series, 2006, 41, 143-150.	0.4	1
122	DYNAMICAL EVOLUTION OF THE 197Au + 197Au SYSTEM AT 15 MeV/NUCLEON. International Journal of Modern Physics E, 2006, 15, 495-499.	1.0	15
123	DYNAMICAL FISSION IN THE Sn + Ni INTERACTION AT 35A MeV. International Journal of Modern Physics E, 2006, 15, 410-416.	1.0	4
124	Tracing the evolution of temperature in near Fermi energy heavy ion collisions. Physical Review C, 2005, 72, .	2.9	37
125	Choshal-like test of equilibration in near-Fermi-energy heavy-ion collisions. Physical Review C, 2005, 71, .	2.9	8
126	Dynamical fission in Sn124+Ni64 collision at 35A MeV. Physical Review C, 2005, 71, .	2.9	39

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127	Time sequence and time scale of intermediate mass fragment emission. <i>Physical Review C</i> , 2005, 71, .	2.9	68
128	HOW TO CALIBRATE THE TIME SCALE OF EMISSION OF INTERMEDIATE MASS FRAGMENTS. <i>International Journal of Modern Physics E</i> , 2005, 14, 353-357.	1.0	16
129	Reaction dynamics and multifragmentation in Fermi energy heavy ion reactions. <i>Physical Review C</i> , 2004, 69, .	2.9	75
130	Isoscaling in central $^{124}\text{Sn}+^{64}\text{Ni}$, $^{112}\text{Sn}+^{58}\text{Ni}$ collisions at 35A MeV . <i>Nuclear Physics A</i> , 2004, 732, 173-201.	1.5	85
131	Fragmentation studies with the CHIMERA detector at LNS in Catania: recent progress. <i>Nuclear Physics A</i> , 2004, 734, 504-511.	1.5	149
132	Licentiate studies in econophysics at the University of Silesia. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 344, 340-343.	2.6	0
133	Isotope correlations as a probe for freeze-out characterization: central $^{124}\text{Sn}+^{64}\text{Ni}$, $^{112}\text{Sn}+^{58}\text{Ni}$ collisions. <i>Nuclear Physics A</i> , 2004, 734, 524-527.	1.5	15
134	Particle identification method in the CsI(Tl) scintillator used for the CHIMERA 4π detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 489, 257-265.	1.6	58
135	Mass and charge identification of fragments detected with the Chimera Silicon 4π CsI(Tl) telescopes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 490, 251-262.	1.6	52
136	Elastic magnetic electron scattering from ^{29}Si and ^{31}P . <i>Nuclear Physics A</i> , 1984, 430, 189-213.	1.5	9
137	Comparison of Inelastic Electron Scattering with $[g_{2^+} - (f_{2^+}^3)]_{8^+}$ Shell-Model Calculations for the $T=1$ and $T=2, 8^+$ States in ^{54}Fe . <i>Physical Review Letters</i> , 1981, 46, 706-709.	7.8	20
138	An Isochronous Beam Recirculation Magnet System. <i>IEEE Transactions on Nuclear Science</i> , 1981, 28, 2847-2849.	2.0	8
139	Isoscalar Character of the $J^\pi = 6^+, E_x = 5.125\text{ MeV}$ State in ^{58}Ni . <i>Physical Review Letters</i> , 1978, 41, 1705-1709.	7.8	11
140	Fragmentation of Isovector M_8 Strength in ^{58}Ni . <i>Physical Review Letters</i> , 1978, 40, 504-507.	7.8	32
141	Elastic electron scattering from the multipole moment distributions of ^{25}Mg . <i>Physical Review C</i> , 1977, 16, 1703-1711.	2.9	21