

Kailas Swaminathan

List of Publications by Year in descending order

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103
papers

1,877
citations

236925

25
h-index

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all docs

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docs citations

103
times ranked

843
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evidence for α -induced neutron production following neutron transfer in the $^6\text{Li} + ^{124}\text{Sn}$ reaction. <i>Physical Review C</i> , 2021, 104, 014607.	2.9	1
2	Unraveling the reaction mechanism for large α production and incomplete fusion in reactions involving weakly bound stable nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 820, 136570.	2.9	2
3	Investigation of neutron transfer in $^6\text{Li} + ^{124}\text{Sn}$ reaction. <i>Physical Review C</i> , 2021, 104, 014607.	4.1	11
4	$^6\text{Li} + ^{124}\text{Sn}$ reaction system. <i>Physical Review C</i> , 2021, 104, 014607.	2.9	6
5	Incomplete fusion reactions using strongly and weakly bound projectiles. <i>Physics Reports</i> , 2020, 845, 1-58.	25.6	51
6	Determination of Breakup Cross-Sections Using A 3-body Simulation Code Based on Monte Carlo Method. , 2020, , .		0
7	Neutron Multiplicity Measurements for the Near Super-heavy Nucleus ^{260}Rf . , 2020, , .		0
8	Elastic scattering for $^6\text{Li} + ^{51}\text{V}$ and systematic study of breakup threshold anomaly. <i>Nuclear Physics A</i> , 2020, 1002, 121973.	1.5	9
9	Role of target shell structure in direct reactions involving weakly bound ^7Li . <i>Physical Review C</i> , 2019, 100, .	2.9	7
10	Measurement of the 21^+ level lifetime in ^{120}Sn by the Doppler shift attenuation method: Evidence of enhanced collectivity. <i>Physical Review C</i> , 2019, 100, .	2.9	1
11	Reaffirmation of probe dependence of the mass deformation length for low-lying excitations in $^{112}\text{Sn}, ^{116}\text{Sn}, ^{118}\text{Sn}, ^{120}\text{Sn}, ^{122}\text{Sn}, ^{124}\text{Sn}$ isotopes. <i>Physical Review C</i> , 2019, 100, .	2.9	4
12	Measurement of incomplete fusion cross sections in $^6\text{Li} + ^{238}\text{U}$ reactions. <i>Physical Review C</i> , 2019, 99, .	2.9	8
13	Low-lying quadrupole and octupole collective excitations in the $^{112}\text{Sn}, ^{116}\text{Sn}, ^{118}\text{Sn}, ^{120}\text{Sn}, ^{122}\text{Sn}, ^{124}\text{Sn}$ isotopes. <i>Physical Review C</i> , 2019, 99, .	2.9	8
14	Deep-inelastic multinucleon transfer processes in the $^{16}\text{O} + ^{27}\text{Al}$ reaction. <i>Physical Review C</i> , 2018, 97, .	2.9	7
15	Mass distributions of fission fragments from nuclei populated by multinucleon transfer or incomplete fusion channels in $^6\text{Li} + ^{124}\text{Sn}$ reaction. <i>Physical Review C</i> , 2018, 97, .	2.9	13
16	Fusion reaction studies for the $^6\text{Li} + ^{124}\text{Sn}$ reaction system at $E_{\text{lab}} = 1.24$ MeV. <i>Physical Review C</i> , 2018, 97, .	2.9	21
17	$^6\text{Li} + ^{124}\text{Sn}$ reaction system at $E_{\text{lab}} = 1.24$ MeV. <i>Physical Review C</i> , 2018, 97, .	2.9	21

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19	Binary fragmentation based studies for the near super-heavy compound nucleus ^{256}Rf . European Physical Journal A, 2017, 53, 1.	2.5	7
20	Elastic, inelastic, and 1-neutron transfer channels in the $^7\text{Li} + ^{120}\text{Sn}$ system. Physical Review C, 2017, 95, .	2.9	14
21	Fusion hindrance at deep sub-barrier energies for the $\text{B11} + \text{Au197}$ system. Physical Review C, 2017, 96, .	2.9	14
22	Investigation of large ^6Li production in reactions involving weakly bound ^7Li . Physical Review C, 2017, 96, .	2.9	19
23	Reexamination of fission in the ^{232}Th reaction. Physical Review C, 2017, 95, .	2.9	8
24	Reexamination of fission in the ^{209}Bi mass region with excitation energy near 50 MeV. Physical Review C, 2017, 95, .	2.9	8
25	Resonant, direct, and transfer breakup of ^6Li by $^{\text{Sn}}$. Exploring contributions from incomplete fusion in $^6\text{Li} + ^{\text{Sn}}$ system. Physical Review C, 2017, 95, .	2.9	23
26	Probing transfer of unbound states of ^6Li to $^{\text{Sn}}$ with weakly bound $^{\text{Sn}}$. Physical Review C, 2017, 95, .	2.9	27
27	Mass, total kinetic energy, and neutron multiplicity correlations in the binary fragmentation of ^{208}Pb . Physical Review C, 2016, 93, .	2.9	9
28	Mass, total kinetic energy, and neutron multiplicity correlations in the binary fragmentation of ^{208}Pb at 29.4 A MeV bombarding Fission barrier, damping of shell correction, and neutron emission in the fission of ^{208}Pb . Physical Review C, 2015, 92, .	2.9	9
29	Summary: 75 years of nuclear fission – present status and perspectives. Pramana - Journal of Physics, 2015, 85, 555-560.	1.8	0
30	Fission time-scale from the measurement of pre-scission light particles and $\hat{3}$ -ray multiplicities. Pramana - Journal of Physics, 2015, 85, 335-343.	1.8	2
31	Nuclear transmutation strategies for management of long-lived fission products. Pramana - Journal of Physics, 2015, 85, 517-523.	1.8	7
32	Charged particle-induced nuclear fission reactions – Progress and prospects. Pramana - Journal of Physics, 2014, 83, 851-884.	1.8	10
33	Track etch membranes (TEMs) for separation sciences from BARC-TIFR Pelletron accelerator. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 947-950.	1.5	1
34	Understanding fusion and its suppression for the ^9Be projectile with different targets. Physical Review C, 2014, 89, .	2.9	31
35	Effect of projectile breakup on fission-fragment mass distributions in the $^6\text{Li} + ^{238}\text{U}$ reactions. Physical Review C, 2014, 90, .	2.9	11

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37	Fission fragment angular distributions in ${}^6\text{Li}+{}^{235}\text{U}$ reactions. Physical Review C, 2014, 90, .	2.9	10
38	Technical design report for the \overline{P} ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71
39	Exploring the breakup and transfer coupling effects in ${}^9\text{Be}$ elastic scattering. Physical Review C, 2013, 87, .	2.9	31
40	Role of the cluster structure of ${}^7\text{Li}$ in the dynamics of fragment capture. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 931-936.	4.1	71
41	Determination of ${}^{241}\text{Pu}(\text{Tj ETQq1 } 1.0784314 \text{ rgBT } / \text{Overlock } 10 \text{ Tf } 50.582 \text{ Td})$	2.9	18
42	Complete fusion in ${}^7\text{Li}+{}^{144}\text{Sm}$ reactions. Physical Review C, 2013, 88, .	2.9	41
43	Nuclear temperatures from evaporation fragment spectra and observed anomalies. Physical Review C, 2013, 87, .	2.9	2
44	ONSET OF QUASIFSSION PROCESS IN ASYMMETRIC REACTIONS FORMING THE COMPOUND SYSTEM ${}^{210}\text{Rn}$, 2013, .		0
45	Reaction studies for the ${}^6\text{Li}+{}^{209}\text{Bi}$	2.9	61
46	Search for an effect of shell closure on nuclear dissipation via a neutron-multiplicity measurement. Physical Review C, 2012, 86, .	2.9	25
47	Disentangling reaction mechanisms for ${}^6\text{Li}+{}^{209}\text{Bi}$ production in the ${}^6\text{Li}+{}^{209}\text{Bi}$ reaction mechanisms involving weakly bound ${}^6\text{Li}$	2.9	36
48	Investigation of cluster structure of ${}^9\text{Be}$ from high precision elastic scattering data. Physical Review C, 2011, 84, .	2.9	79
49	Evaporation residue excitation function measurement for the ${}^{16}\text{O}+{}^{194}\text{Pt}$ reaction.	2.9	21
50	Sub- and above-barrier fusion of loosely bound ${}^6\text{Li}$ with ${}^{28}\text{Si}$. European Physical Journal A, 2010, 44, 403-410.	2.9	35
51	Inclusive ${}^6\text{Li}$ -production cross section for the ${}^6\text{Li}+{}^{209}\text{Bi}$	2.5	29
52	Angular momentum dependence of the nuclear level density parameter. Physical Review C, 2010, 81, .	2.9	21
53	Conclusive evidence of quasifission in reactions forming the ${}^{210}\text{Rn}$ compound nucleus. Physical Review C, 2010, 81, .	2.9	12
54		2.9	42

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55	Production of ^6He in $^7\text{Li}+^7\text{Li}$ Reaction. AIP Conference Proceedings, 2010, .	0.4	0
56	Microscopic description of 295 MeV polarized protons incident on Sn isotopes. Physical Review C, 2010, 81, .	2.9	9
57	Predicted weakening of the spin-orbit interaction with the addition of neutrons. Physical Review C, 2009, 79, .	2.9	7
58	Effect of breakup in the fusion of ^7Li with ^6He . Physical Review C, 2009, 79, .	2.9	18
59	Reaction mechanism study of $^7\text{Li}(^7\text{Li},^6\text{He})$ reaction at above Coulomb barrier energies. Pramana - Journal of Physics, 2009, 72, 363-373.	1.8	2
60	Resonant breakup of ^6Li by ^{209}Bi . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 139-144.	4.1	58
61	Measurement of $^{67}\text{Zn}(n,p)^{67}\text{Cu}$, $^{92}\text{Mo}(n,p)^{92}\text{Nb}$, and $^{98}\text{Mo}(n,p)^{98}\text{Nb}$ Reaction Cross Sections at Incident Neutron Energies of $E_n = 1.6$ and 3.7 MeV. Nuclear Science and Engineering, 2009, 163, 175-182.	1.1	18
62	Electric dipolarizability of ^7Li . Pramana - Journal of Physics, 2008, 71, 1271-1277.	1.8	0
63	Sub-barrier fusion excitation for the system $^7\text{Li}+^{28}\text{Si}$. Physical Review C, 2008, 78, .	2.9	14
64	Breakup threshold anomaly in the elastic scattering for the $^7\text{Li}+^{60}\text{Zr}$ system. Physical Review C, 2008, 77, .	2.9	60
65	Fission fragment anisotropies for the $^{13}\text{C}+^{235}\text{U}$ system at near-Coulomb barrier energies. Physical Review C, 2008, 77, .	2.9	5
66	Dipole polarizability of ^7Li from precision measurement of the elastic scattering on ^{60}Zr . Physical Review C, 2007, 76, .	2.9	15
67	Experimental investigation of fusion of $^7\text{Li}+^{28}\text{Si}$ above the Coulomb barrier. Physical Review C, 2007, 76, .	2.9	20
68	Microscopic optical model potentials for p-nucleus scattering at intermediate energies. Physical Review C, 2007, 75, .	2.9	11
69	Accelerator development in India for ADS programme. Pramana - Journal of Physics, 2007, 68, 331-342.	1.8	33
70	Evidence for transfer followed by breakup in $^7\text{Li}+^{65}\text{Cu}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 463-468.	4.1	108
71	Study of Exotic Nuclei. Hyperfine Interactions, 2006, 162, 133-138.	0.5	0
72	Elastic scattering and fusion cross sections for ^7Be , $^7\text{Li}+^{27}\text{Al}$ systems. Physical Review C, 2006, 73, .	2.9	45

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73	Fission time scale from pre-scission neutron, proton, and \pm particle multiplicities in $^{28}\text{Si}+^{175}\text{Lu}$. Physical Review C, 2006, 73, .	2.9	56
74	Adiabatic heavy-ion fusion potentials for fusion at deep sub-barrier energies. Pramana - Journal of Physics, 2005, 64, 47-53.	1.8	2
75	Experimental signatures for distinguishing breakup fusion and transfer in $^{7}\text{Li}+^{165}\text{Ho}$. Physical Review C, 2005, 72, .	2.9	35
76	PIXE STUDIES USING THE VAN-DE-GRAAFF ACCELERATOR AT BARC, TROMBAY – DIFFERENCES IN ELEMENTAL CONCENTRATIONS IN BLOOD SAMPLES OF CHILDREN. International Journal of PIXE, 2005, 15, 181-185.	0.4	1
77	Direct and compound reactions induced by unstable helium beams near the Coulomb barrier. Physical Review C, 2004, 70, .	2.9	108
78	Anomaly in the nuclear charge radii of Zr isotopes. Physical Review C, 2004, 70, .	2.9	20
79	PIXE STUDIES ON GOLD STANDARDS BY PROTONS OF ENERGY 3.3 MeV. International Journal of PIXE, 2004, 14, 141-146.	0.4	2
80	Observation of unexpected orbiting behavior for $^{16}\text{O}+^{89}\text{Y}$ and $^{16}\text{O}+^{93}\text{Nb}$ reactions. Physical Review C, 2003, 68, .	2.9	6
81	Search for oscillations in evaporation \pm -particle spectra from hot compound nuclei. Physical Review C, 2002, 66, .	2.9	5
82	Status report on the folded tandem ion accelerator at BARC. Pramana - Journal of Physics, 2002, 59, 739-744.	1.8	7
83	Light-charged-particle evaporation from hot ^{31}P nucleus at $E^* \approx 60$ MeV. European Physical Journal A, 2002, 14, 53-61.	2.5	2
84	Precise nuclear matter densities from heavy-ion collisions. Physical Review C, 2001, 65, .	2.9	18
85	Light charged particle emission in heavy-ion reactions – What have we learnt?. Pramana - Journal of Physics, 2001, 57, 75-84.	1.8	4
86	Breakup of 42 MeV ^7Li projectiles in the fields of ^{12}C and ^{197}Au nuclei. Pramana - Journal of Physics, 2001, 57, 209-213.	1.8	0
87	Collectivity against nucleon transfer in sub-barrier fusion of $^{12}\text{C}+^{194,198}\text{Pt}$. Physical Review C, 2001, 63, .	2.9	34
88	Non-statistical fluctuations in O-AgBr interaction at 60A GeV in terms of factorial correlators. European Physical Journal A, 2000, 8, 97.	2.5	12
89	Shell Effects in Fission Fragment Anisotropies for $^{12}\text{C}+^{194,198}\text{Pt}$ Systems. Physical Review Letters, 1999, 82, 699-702.	7.8	43
90	Heavy-ion induced fission reactions at near-barrier energies – what have we learnt?. Pramana - Journal of Physics, 1999, 53, 485-494.	1.8	2

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91	Fission fragment angular distributions at near-barrier energies in $^{11}\text{B}, ^{12}\text{C}, ^{14}\text{N} + ^{209}\text{Bi}$. Physical Review C, 1998, 57, 971-974.	2.9	9
92	Puzzling features of heavy-ion fission at sub-barrier energies. Zeitschrift für Physik A, 1996, 356, 309-312.	0.9	4
93	Sub-barrier fission fragment angular distributions for the system $^{19}\text{F} + ^{232}\text{Th}$. Pramana - Journal of Physics, 1993, 41, 339-344.	1.8	7
94	Neutron flow or collective degrees of freedom for near barrier heavy-ion fusion. Pramana - Journal of Physics, 1993, 41, 163-169.	1.8	3
95	Optical model analysis of $^{90}, ^{92}, ^{94}, ^{96}\text{Zr} + ^4\text{He}$ elastic scattering at 35.4 MeV. Zeitschrift für Physik A, Atomic Nuclei, 1988, 331, 309-313.	0.3	0
96	Neutron capture gross section of ^{232}Th . Radiation Effects, 1986, 93, 189-192.	0.4	0
97	Proton-nucleus optical model potential at low energies—a review. Pramana - Journal of Physics, 1986, 27, 139-160.	1.8	4
98	Volume integrals of real and imaginary parts of optical potentials for light projectiles. Radiation Effects, 1986, 95, 157-160.	0.4	0
99	$^{51}\text{p}, \text{n} + ^{51}\text{Cr}$ reaction from E p 1.9 to 4.5 MeV. Pramana - Journal of Physics, 1985, 24, 629-635.	1.8	5
100	Thermonuclear reaction rates from (p,n) reaction. AIP Conference Proceedings, 1985, , .	0.4	0
101	Elastic scattering of 36 MeV alpha particles from ^{197}Au . Pramana - Journal of Physics, 1984, 23, 495-500.	1.8	8
102	Heavy-ion total reaction cross sections. Zeitschrift für Physik A, 1984, 317, 75-78.	1.4	27
103	The imaginary part of the nucleon-nucleus optical potential. Zeitschrift für Physik A, 1983, 313, 99-103.	1.4	2