

Kailas Swaminathan

List of Publications by Year in descending order

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103
papers

1,877
citations

236925

25
h-index

289244

40
g-index

103
all docs

103
docs citations

103
times ranked

843
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct and compound reactions induced by unstable helium beams near the Coulomb barrier. Physical Review C, 2004, 70, .	2.9	108
2	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
3	${}^6\text{Li}+{}^6\text{Li}$ reaction. Physical Review C, 2005, 71, 054601.	2.9	79
4	Technical design report for the $\overline{\text{P}}$ ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71
5	Role of the cluster structure of 7Li in the dynamics of fragment capture. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 931-936.	4.1	71
6	Fusion reaction studies for the ${}^6\text{Li}+{}^6\text{Li}$ system. Physical Review C, 2005, 71, 054601.	2.9	61
7	${}^6\text{Li}+{}^6\text{Li}$ reaction. Physical Review C, 2005, 71, 054601.	2.9	60
8	Resonant breakup of 6Li by 209Bi . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 139-144.	4.1	58
9	Fission time scale from precession neutron, proton, and $1\pm$ particle multiplicities in $\text{Si}28+\text{Lu}175$. Physical Review C, 2006, 73, .	2.9	56
10	Incomplete fusion reactions using strongly and weakly bound projectiles. Physics Reports, 2020, 845, 1-58.	25.6	51
11	Elastic scattering and fusion cross sections for $\text{Be}7, \text{Li}7+\text{Al}27$ systems. Physical Review C, 2006, 73, .	2.9	45
12	Shell Effects in Fission Fragment Anisotropies for $\text{C}12+\text{P}194, 198\text{t}$ Systems. Physical Review Letters, 1999, 82, 699-702.	7.8	43
13	Conclusive evidence of quasifission in reactions forming the ${}^{\text{Rn}}$ compound nucleus. Physical Review C, 2005, 71, 054601.	2.9	42
14	Complete fusion in ${}^7\text{Li}+{}^{144}\text{Sm}$ reaction. Physical Review C, 2013, 88, .	2.9	41
15	Disentangling reaction mechanisms for ${}^6\text{Li}+{}^6\text{Li}$ reaction. Physical Review C, 2009, 79, 054601.	2.9	39
16	${}^6\text{Li}+{}^6\text{Li}$ reaction. Physical Review C, 2005, 71, 054601.	2.9	36
17	Experimental signatures for distinguishing breakup fusion and transfer in $\text{Li}7+\text{Ho}165$. Physical Review C, 2005, 72, .	2.9	35
18	Evaporation residue excitation function measurement for the ${}^{16}\text{O}+{}^{194}\text{Pt}$ reaction. Physical Review C, 2011, 84, .	2.9	35

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19	Collectivity against nucleon transfer in sub-barrier fusion of $^{12}\text{C}+^{194}\text{Pt}$. Physical Review C, 2001, 63, .	2.9	34
20	Accelerator development in India for ADS programme. Pramana - Journal of Physics, 2007, 68, 331-342.	1.8	33
21	Exploring the breakup and transfer coupling effects in ^9Be elastic scattering. Physical Review C, 2013, 87, .	2.9	31
22	Understanding fusion and its suppression for the ^9Be projectile with different targets. Physical Review C, 2014, 89, .	2.9	31
23	Sub- and above-barrier fusion of loosely bound ^6Li with ^{28}Si . European Physical Journal A, 2010, 44, 403-410.	2.5	29
24	Heavy-ion total reaction cross sections. Zeitschrift für Physik A, 1984, 317, 75-78.	1.4	27
25	Probing transfer to unbound states of the ejectile with weakly bound ^7Li on ^{200}Pb . Physical Review C, 2016, 93, .	2.9	27
26	Search for an effect of shell closure on nuclear dissipation via a neutron-multiplicity measurement. Physical Review C, 2012, 86, .	2.9	25
27	Fission barrier, damping of shell correction, and neutron emission in the fission of ^{240}Pu . Physical Review C, 2015, 92, .	2.9	23
28	Resonant, direct, and transfer breakup of ^6Li by ^{112}Sn . Physical Review C, 2016, 94, .	2.9	23
29	Production cross section for the $^6\text{Li}+^{124}\text{Sn}$ system at near-barrier energies. Physical Review C, 2018, 98, .	2.9	21
30	Investigation of cluster structure of ^9Be from high precision elastic scattering data. Physical Review C, 2011, 84, .	2.9	21
31	Investigation of large ^6Li production in reactions involving weakly bound ^7Li . Physical Review C, 2017, 96, .	2.9	21
32	Anomaly in the nuclear charge radii of Zr isotopes. Physical Review C, 2004, 70, .	2.9	20
33	Experimental investigation of fusion of $^7\text{Li}+^{28}\text{Si}$ above the Coulomb barrier. Physical Review C, 2007, 76, .	2.9	20
34	Investigation of large ^6Li production in reactions involving weakly bound ^7Li . Physical Review C, 2017, 96, .	2.9	19
35	Precise nuclear matter densities from heavy-ion collisions. Physical Review C, 2001, 65, .	2.9	18
36	Effect of breakup in the fusion of ^7Li with ^{165}Ho . Physical Review C, 2017, 96, .	2.9	18

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37	Measurement of ^{67}Zn , ^{67}Cu , ^{92}Mo , ^{92}mMo , ^{98}Mo , ^{99}Mo Reaction Cross Sections at Incident Neutron Energy 1.1 MeV. Physical Review C, 2009, 163, 175-182.	1.1	18
38	Dipole polarizability of ^{241}Pu . Physical Review C, 2009, 79, 044601.	2.9	18
39	Role of cluster structure in the breakup of ^7Li . Physical Review C, 2018, 97, 044601.	2.9	15
40	Sub-barrier fusion excitation for the system $^7\text{Li} + ^{28}\text{Si}$. Physical Review C, 2008, 78, 044601.	2.9	14
41	Elastic, inelastic, and 1-nucleon transfer channels in the $^7\text{Li} + ^{120}\text{Sn}$ system. Physical Review C, 2017, 95, 044601.	2.9	14
42	Fusion hindrance at deep sub-barrier energies for the $\text{B}_{11} + \text{Au}_{197}$ system. Physical Review C, 2017, 96, 044601.	2.9	14
43	Mass distributions of fission fragments from nuclei populated by multinucleon transfer or incomplete fusion channels in $^6\text{Li} + ^{238}\text{U}$ reactions. Physical Review C, 2017, 95, 044601.	2.9	13
44	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
45	Angular momentum dependence of the nuclear level density parameter. Physical Review C, 2010, 81, 044601.	2.9	12
46	Microscopic optical model potentials for p-nucleus scattering at intermediate energies. Physical Review C, 2007, 75, 044601.	2.9	11
47	Effect of projectile breakup on fission-fragment mass distributions in the $^6\text{Li} + ^{238}\text{U}$ reactions. Physical Review C, 2014, 90, 044601.	2.9	11
48	Unraveling the reaction mechanism for large alpha production and incomplete fusion in reactions involving weakly bound stable nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136570.	4.1	11
49	Charged particle-induced nuclear fission reactions – Progress and prospects. Pramana - Journal of Physics, 2014, 83, 851-884.	1.8	10
50	Fission fragment angular distributions in $^6\text{Li} + ^{235,238}\text{U}$ reactions. Physical Review C, 2014, 90, 044601.	2.9	10
51	Fission fragment angular distributions at near-barrier energies in ^{11}B , ^{12}C , $^{14}\text{N} + ^{209}\text{Bi}$. Physical Review C, 1998, 57, 971-974.	2.9	9
52	Microscopic description of 295 MeV polarized protons incident on Sn isotopes. Physical Review C, 2010, 81, 044601.	2.9	9
53	Mass, total kinetic energy, and neutron multiplicity correlations in the binary fragmentation of ^{208}Pb at 294A MeV bombarding energy. Physical Review C, 2010, 81, 044601.	2.9	9

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55	Elastic scattering for $6\text{Li}+51\text{V}$ and systematic study of breakup threshold anomaly. Nuclear Physics A, 2020, 1002, 121973.	1.5	9
56	Elastic scattering of 36 MeV alpha particles from 197Au . Pramana - Journal of Physics, 1984, 23, 495-500.	1.8	8
57	Projectile-breakup-induced fission fragment angular distributions in the $^{29}\text{Th}+^{232}\text{Th}$ reaction. Physical Review C, 2017, 96, .	2.9	8
58	Reexamination of fission in the $^{209}\text{Bi}+^{200}\text{Pb}$ mass region with excitation energy near 50 MeV. Physical Review C, 2017, 95, .	2.9	8
59	Measurement of incomplete fusion cross sections in $^{6,7}\text{Li}+^{238}\text{U}$ reactions. Physical Review C, 2019, 99, .	2.9	8
60	Low-lying quadrupole and octupole collective excitations in the $^{112,116}\text{Sn}$ isotopes. Physical Review C, 2019, 99, .	2.9	8
61	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
62	Status report on the folded tandem ion accelerator at BARC. Pramana - Journal of Physics, 2002, 59, 739-744.	1.8	7
63	Predicted weakening of the spin-orbit interaction with the addition of neutrons. Physical Review C, 2009, 79, .	2.9	7
64	Nuclear transmutation strategies for management of long-lived fission products. Pramana - Journal of Physics, 2015, 85, 517-523.	1.8	7
65	Binary fragmentation based studies for the near super-heavy compound nucleus ^{256}Rf . European Physical Journal A, 2017, 53, 1.	2.5	7
66	Deep-inelastic multinucleon transfer processes in the $^{16}\text{O}+^{27}\text{Al}$ reaction. Physical Review C, 2018, 97, .	2.9	7
67	Role of target shell structure in direct reactions involving weakly bound ^7Li . Physical Review C, 2019, 100, .	2.9	7
68	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
69	Investigation of neutron transfer in the $^{7}\text{Li}+^{232}\text{Th}$ system. Physical Review C, 2021, 104, .	2.9	6
70	$51(p, n)^{51}\text{Cr}$ reaction from E_p 1.9 to 4.5 MeV. Pramana - Journal of Physics, 1985, 24, 629-635.	1.8	5
71	Search for oscillations in evaporation \pm -particle spectra from hot compound nuclei. Physical Review C, 2002, 66, .	2.9	5
72	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

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73	Proton-nucleus optical model potential at low energies—a review. <i>Pramana - Journal of Physics</i> , 1986, 27, 139-160.	1.8	4
74	Puzzling features of heavy-ion fission at sub-barrier energies. <i>Zeitschrift für Physik A</i> , 1996, 356, 309-312.	0.9	4
75	Light charged particle emission in heavy-ion reactions — What have we learnt?. <i>Pramana - Journal of Physics</i> , 2001, 57, 75-84.	1.8	4
76	Resonant breakup of ${}^8\text{Be}$ in ${}^{80}\text{Sn}$		

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91	Experimental evidence for α -particle production following neutron transfer in the $^{13}\text{C} + ^{13}\text{C}$ reaction. AIP Conference Proceedings, 1985, , .	2.9	1
92	Thermonuclear reaction rates from (p,n) reaction. AIP Conference Proceedings, 1985, , .	0.4	0
93	Neutron capture gross section of th-232. Radiation Effects, 1986, 93, 189-192.	0.4	0
94	Volume integrals of real and imaginary parts of optical potentials for light projectiles. Radiation Effects, 1986, 95, 157-160.	0.4	0
95	Optical model analysis of $^{90}\text{Zr} + ^4\text{He}$ elastic scattering at 35.4 MeV. Zeitschrift für Physik A, Atomic Nuclei, 1988, 331, 309-313.	0.3	0
96	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
97	Study of Exotic Nuclei. Hyperfine Interactions, 2006, 162, 133-138.	0.5	0
98	Electric dipolarizability of ^7Li . Pramana - Journal of Physics, 2008, 71, 1271-1277.	1.8	0
99	Production of ^6He in $^7\text{Li} + ^7\text{Li}$ Reaction. AIP Conference Proceedings, 2010, , .	0.4	0
100	ONSET OF QUASIFISSION PROCESS IN ASYMMETRIC REACTIONS FORMING THE COMPOUND SYSTEM ^{210}Rn , 2013, , .		0
101	Summary: 75 years of nuclear fission – present status and perspectives. Pramana - Journal of Physics, 2015, 85, 555-560.	1.8	0
102	Determination of Breakup Cross-Sections Using A 3-body Simulation Code Based on Monte Carlo Method. , 2020, , .		0
103	Neutron Multiplicity Measurements for the Near Super-heavy Nucleus ^{260}Rf . , 2020, , .		0