

# Ambar Chatterjee

## List of Publications by Year in descending order

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54  
papers

1,371  
citations

361413

20  
h-index

330143

37  
g-index

54  
all docs

54  
docs citations

54  
times ranked

691  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance results of National Array of Neutron Detectors (NAND) facility at IUAC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 986, 164754.	1.6	10
2	Evaluation of detection efficiency and neutron scattering in NAND detector array: FLUKA simulation and experimental validation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1013, 165682.	1.6	2
3	Role of target shell structure in direct reactions involving weakly bound $Li^7$ . Physical Review C, 2019, 100, .	2.9	7
4	Nuclear dissipation at high excitation energy and angular momenta in reaction forming $^{227}Np$ . Physical Review C, 2019, 99, .	2.9	9
5	Asymmetric fission around lead: The case of $^{198}Po$ . Physical Review C, 2019, 100, .	2.9	12
6	Systematic study of $^{192}Po$ . Physical Review C, 2018, 98, .	2.9	13
7	Compound nuclei using neutron multiplicity as a probe. Physical Review C, 2018, 98, .	2.9	12
8	Deformed band structures at high spin in $^{200}Tl$ . Physical Review C, 2017, 95, .	2.9	10
9	Fusion hindrance at deep sub-barrier energies for the $B11+Au197$ system. Physical Review C, 2017, 96, .	2.9	14
10	Investigation of large $^{6}Li$ production in reactions involving weakly bound $Li$ . Physical Review C, 2017, 96, .	2.9	19
11	Probing transfer to unbound states of the ejectile with weakly bound nuclei. Physical Review C, 2016, 93, .	2.9	27
12	Evolution of fusion hindrance for asymmetric systems at deep sub-barrier energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 332-336.	4.1	25
13	Fission time-scale from the measurement of pre-scission light particles and $\hat{\nu}^3$ -ray multiplicities. Pramana - Journal of Physics, 2015, 85, 335-343.	1.8	2
14	Fusion and quasi-elastic scattering in the $^{19}F+^{19}F$ system. Physical Review C, 2015, 91, .	2.9	17
15	$^{19}F$ production in the $^{19}F+^{19}F$ system. Physical Review C, 2015, 91, .	2.9	12
16	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
17	Nuclear temperatures from evaporation fragment spectra and observed anomalies. Physical Review C, 2013, 87, .	2.9	2
18	High spin spectroscopy of $^{201}Tl$ . Physical Review C, 2013, 88, .	2.9	9

#	ARTICLE	IF	CITATIONS
19	Disentangling reaction mechanisms for $^6\text{Li} + ^{209}\text{Bi}$ reaction. Physical Review C, 2012, 85, .	2.9	61
20	Production of $^6\text{Li}$ in the $^{18}\text{O} + ^{12}\text{C}$ reaction. International Journal of Modern Physics E, 2011, 20, 1058-1061.	2.9	36
21	Spectroscopic studies of fragment nuclei in thermal neutron induced fission of $^{235}\text{U}$ . Physical Review C, 2012, 85, .	2.9	78
22	Investigation of cluster structure of $^9\text{Be}$ from high precision elastic scattering data. Physical Review C, 2011, 84, .	2.9	21
23	OBSERVATION OF HEAVY CLUSTER STRUCTURE OF $^{18}\text{O}$ BY INCLUSIVE MEASUREMENT OF INTERMEDIATE MASS FRAGMENT EMITTED IN $^{18}\text{O} + ^{12}\text{C}$ REACTION AT 80 MeV. International Journal of Modern Physics E, 2011, 20, 1058-1061.	1.0	1
24	Fusion of the weakly bound projectile $^9\text{Li}$ with $^{209}\text{Bi}$ . Physical Review C, 2012, 85, .	2.9	79
25	NEUTRON CORRELATIONS IN $^6\text{He}$ VIEWED THROUGH NUCLEAR BREAK-UP. Modern Physics Letters A, 2010, 25, 1846-1849.	1.2	1
26	Fine structure dips in the fission fragment mass distribution for the $^{235}\text{U}$ .		

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37	Elastic scattering and fusion cross sections for $Be7, Li7+Al27$ systems. <i>Physical Review C</i> , 2006, 73, .	2.9	45
38	Fission time scale from pre-scission neutron, proton, and $\hat{\pm}$ particle multiplicities in $Si28+Lu175$ . <i>Physical Review C</i> , 2006, 73, .	2.9	56
39	Velocity slice imaging for dissociative electron attachment. <i>Review of Scientific Instruments</i> , 2005, 76, 053107.	1.3	88
40	Experimental signatures for distinguishing breakup fusion and transfer in $Li7+Ho165$ . <i>Physical Review C</i> , 2005, 72, .	2.9	35
41	Direct and compound reactions induced by unstable helium beams near the Coulomb barrier. <i>Physical Review C</i> , 2004, 70, .	2.9	108
42	Observation of unexpected orbiting behavior for $O16+Y89$ and $O16+Nb93$ reactions. <i>Physical Review C</i> , 2003, 68, .	2.9	6
43	Search for oscillations in evaporation $\hat{\pm}$ -particle spectra from hot compound nuclei. <i>Physical Review C</i> , 2002, 66, .	2.9	5
44	Light-charged-particle evaporation from hot $31P$ nucleus at $E^{\hat{\pm}} \approx 60$ MeV. <i>European Physical Journal A</i> , 2002, 14, 53-61.	2.5	2
45	Precise nuclear matter densities from heavy-ion collisions. <i>Physical Review C</i> , 2001, 65, .	2.9	18
46	Data acquisition for experiments with multi-detector arrays. <i>Pramana - Journal of Physics</i> , 2001, 57, 135-139.	1.8	6
47	Breakup of 42 MeV $7Li$ projectiles in the fields of $12C$ and $197Au$ nuclei. <i>Pramana - Journal of Physics</i> , 2001, 57, 209-213.	1.8	0
48	Collectivity against nucleon transfer in sub-barrier fusion of $12C+194,198Pt$ . <i>Physical Review C</i> , 2001, 63, .	2.9	34
49	Non-statistical fluctuations in $O-AgBr$ interaction at 60A GeV in terms of factorial correlators. <i>European Physical Journal A</i> , 2000, 8, 97.	2.5	12
50	Fragment spin as a function of the mass asymmetry in heavy ion induced fission reactions. <i>Physical Review C</i> , 1999, 60, .	2.9	26
51	Shell Effects in Fission Fragment Anisotropies for $C12+P194,198t$ Systems. <i>Physical Review Letters</i> , 1999, 82, 699-702.	7.8	43
52	Fission fragment angular distributions at near-barrier energies in $11B, 12C, 14N+209Bi$ . <i>Physical Review C</i> , 1998, 57, 971-974.	2.9	9
53	Sub-barrier fission fragment angular distributions for the system $19F+232Th$ . <i>Pramana - Journal of Physics</i> , 1993, 41, 339-344.	1.8	7
54	Angular distributions in pre-equilibrium reactions. <i>Zeitschrift für Physik A</i> , 1983, 313, 93-98.	1.4	1