

# Gopal Mukherjee

## List of Publications by Year in descending order

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91  
papers

1,059  
citations

430874

18  
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501196

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docs citations

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times ranked

794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for competing bi-faceted compound nucleus fission modes in $^{232}\text{Th}(\bar{I}_{\pm}, f)$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136848.	4.1	2
2	Signature of fusion suppression in complex fragment emission. Physical Review C, 2022, 105, .	2.9	0
3	Alignment effects in the medium-spin level structure of $^{78}\text{Se}$ . Physical Review C, 2022, 105, .	2.9	1
4	Different manifestations of triaxial shapes of the positive and negative parity bands in $^{187}\text{Os}$ . Physical Review C, 2022, 105, .	2.9	3
5	Structural evolution and $K$ mixing in $^{49}\text{V}$ . Physical Review C, 2022, 105, .	2.9	0
6	Study of shape evolution of nuclei with $^{40}\text{Zr}$ and $^{50}\text{Nb}$ . Nuclear Physics A, 2022, 1023, 122449.	1.3	4
7	Nuclear level density and thermal properties of $^{115}\text{Sn}$ from neutron evaporation. European Physical Journal A, 2021, 57, 1.	2.5	2
8	Excitation energy and angular momentum dependence of the nuclear level density parameter around $^{110}\text{A}$ . Physical Review C, 2021, 103, .	2.9	3
9	Complex fragment emission in dissipative binary decay of $^{74}\text{Kr}$ . Physical Review C, 2021, 103, .	2.9	0
10	Experimental evidence of exact E(5) symmetry in $^{82}\text{Kr}$ . Physical Review C, 2021, 104, .	2.9	4
11	Search for the Hoyle analogue state in $^{16}\text{O}$ . European Physical Journal A, 2021, 57, .	2.5	3
12	Evidence of octupole correlation in $^{79}\text{Se}$ . Physical Review C, 2021, 104, .	2.9	5
13	First Observation of Multiple Transverse Wobbling Bands of Different Kinds in $^{183}\text{Au}$ . Physical Review C, 2021, 103, .	7.8	30
14	Spectroscopic investigation of complex nuclear excitations in $^{66}\text{Ga}$ . Physical Review C, 2020, 102, .	2.9	3
15	Evidence for the reduction of nuclear level density away from the $\hat{I}^2$ -stability line. Physical Review C, 2020, 102, .	2.9	8
16	Observation of signature partner bands in $^{117}\text{Sb}$ . Physical Review C, 2020, 101, .	2.9	3
17	Revealing multiple band structures in $^{131}\text{Xe}$ from $\bar{I}_{\pm}$ -induced reactions. Physical Review C, 2020, 101, .	2.9	11
18	Evolution of collectivity and shape transition in $^{66}\text{Zn}$ . Physical Review C, 2020, 102, .	2.9	5

#	ARTICLE	IF	CITATIONS
19	ChAKRA : The high resolution charged particle detector array at VECC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 943, 162411.	1.6	8
20	In-beam spectroscopic study of $^{63}\text{Zn}$ . Physical Review C, 2019, 100, .	2.9	6
21	Evidence of the octupole correlation between the shears bands in $^{142}\text{Eu}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134960.	4.1	2
22	Observation of rotation about the longest principal axis in $^{89}\text{Zr}$ . Physical Review C, 2019, 99, .	2.9	7
23	Effect of neutron alignments on the structure of $^{197}\text{Tl}$ . Physical Review C, 2019, 99, .	2.9	5
24	New high precision study on the decay width of the Hoyle state in $^{12}\text{C}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 130-133.	4.1	22
25	Band structures in $^{169}\text{Tm}$ and the structures of Tm isotopes around $N = 98$ . European Physical Journal A, 2019, 55, 1.	2.5	0
26	Effect of clustering on the emission of light charged particles. European Physical Journal A, 2018, 54, 1.	2.5	0
27	A Compton suppressed detector multiplicity trigger based digital DAQ for gamma-ray spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 893, 138-145.	1.6	21
28	Extremely asymmetric shears band in $^{143}\text{Sm}$ . Physical Review C, 2018, 98, .	2.9	5
29	Experimental nuclear physics research using the cyclotron at VECC. European Physical Journal A, 2018, 54, 1.	2.5	2
30	Yrast and non-yrast spectroscopy of $^{199}\text{Tl}$ using $^{199}\text{Tl}$ -induced reactions. Physical Review C, 2018, 98, .	2.9	4
31	High spin states in $^{63}\text{Cu}$ . European Physical Journal A, 2018, 54, 1.	2.5	7
32	Abrupt phase change of the core rotation in the $^{143}\text{Sm}$ nucleus. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 143-148.	4.1	5
33	Observation of multiple doubly degenerate bands in $^{195}\text{Tl}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 768-772.	4.1	33
34	Deformed band structures at high spin in $^{200}\text{Tl}$ . Physical Review C, 2017, 95, .	2.9	10
35	Band structures of $^{169}\text{Tm}$ and the effect of the $^{169}\text{Tm}$ deformed shell gap. Physical Review C, 2017, 95, .	2.9	6
36	Study of $^{26}\text{Mg}$ through $1p$ pick-up reaction $^{27}\text{Al}(d,^3\text{He})$ . International Journal of Modern Physics E, 2017, 26, 1750064.	1.0	1

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37	Evidence of antimagnetic rotation in an odd-odd nucleus: The case of $^{142}\text{Eu}$ . Physical Review C, 2017, 96, .	2.9	11
38	High-spin states in $^{133}\text{Cs}$ and the shell model description. Physical Review C, 2017, 95, .	2.9	4
39	Fragment emission mechanism in the $\text{S}32+\text{C}12$ reaction. Physical Review C, 2017, 95, .	2.9	3
40	Fission fragment mass distributions from $\text{Po}210$ and $\text{At}213$ . Physical Review C, 2017, 96, .	2.9	8
41	Fission fragment mass distributions in reactions populating $^{200}\text{Pb}$ . Physical Review C, 2016, 94, .	2.9	9
42	Experimental investigation of $T=1$ analog states of $\text{Al}26$ and $\text{Mg}26$ . Physical Review C, 2016, 93, .	2.9	7
43	Fission dynamics study in $\text{Am}243$ and $\text{Fm}254$ . Physical Review C, 2016, 93, .	2.9	1
44	Shears mechanism and development of collectivity in $\text{Sm}141$ . Physical Review C, 2016, 94, .	2.9	10
45	Survival of cluster correlation in dissipative binary breakup of $\text{Mg}^{*24,25}$ . Physical Review C, 2016, 94, .	2.9	11
46	Excitation energy dependence of the level density parameter close to the doubly magic $^{208}\text{Pb}$ . Physical Review C, 2016, 94, .	2.9	13
47	Lifetime measurements in the yrast band of the gamma-soft nuclei $^{131}\text{Ce}$ and $^{133}\text{Pr}$ . Pramana - Journal of Physics, 2016, 87, 1.	1.8	1
48	Negative-parity high-spin states and a possible magnetic rotation band in $\text{Pr}7659135$ . Physical Review C, 2015, 92, .	2.9	8
49	Experimental study of $\text{Al}26$ through the $1\text{p}$ pick-up reaction $\text{Al}27(\text{d},\text{t})$ . Physical Review C, 2015, 91, .	2.9	8
50	Fusion-fission dynamics studies using mass distribution as a probe. Pramana - Journal of Physics, 2015, 85, 291-301.	1.8	3
51	A new high-spin isomer in $^{195}\text{Bi}$ . European Physical Journal A, 2015, 51, 1.	2.5	7
52	Antimagnetic rotation and sudden change of electric quadrupole transition strength in $^{143}\text{Eu}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 387-391.	4.1	13
53	Transitional nuclei near shell closures. , 2014, , .		0
54	High spin spectroscopy of near spherical nuclei: Role of intruder orbitals. , 2014, , .		0

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55	Multiple magnetic rotational bands based on proton alignment in $^{143}\text{Eu}$ . Physical Review C, 2014, 90, .	2.9	15
56	Decay of Hoyle state. Pramana - Journal of Physics, 2014, 83, 673-682.	1.8	1
57	High spin structure in $^{130,131}\text{Ba}$ . European Physical Journal A, 2014, 50, 1.	2.5	11
58	Shape coexistence in the near-spherical $^{142}\text{Sm}$ nucleus. Physical Review C, 2014, 89, .	2.9	26
59	A charged particle detector array for detection of light charged particles from nuclear reactions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 849-855.	1.6	10
60	Band structures and intruder $i_{13/2}$ state in $^{197}\text{Tl}$ . Physical Review C, 2013, 88, .	2.9	7
61	High spin spectroscopy of $^{201}\text{Tl}$ . Physical Review C, 2013, 88, .	2.9	9
62	Estimation of direct components of the decay of the Hoyle state. Physical Review C, 2013, 88, .	2.9	44
63	Experimental investigation of shell-model excitations of $^{89}\text{Zr}$ up to high spin. Physical Review C, 2012, 86, .	2.9	25
64	Onset of deformation at $^{112}\text{Bi}$ nuclei. Physical Review C, 2012, 85, .	2.9	16
65	Complex-fragment emission in low-energy light-ion reactions. Physical Review C, 2012, 85, .	2.9	11
66	Evidence of quasifission in the $^{16}\text{O} + ^{238}\text{U}$ system. Physical Review C, 2012, 85, .	2.9	20
67	Structural change of the unique-parity $i_{13/2}$ state in $^{111}\text{In}$ . Physical Review C, 2011, 84, .	2.9	7
68	CLUSTER EMISSION IN $^{13}\text{C} + ^{12}\text{C}$ and $^{12}\text{C} + ^{12}\text{C}$ REACTIONS AT $\sim 6$ MEV/NUCLEON. International Journal of Modern Physics E, 2011, 20, 789-792.	1.0	1
69	Extreme nuclear shapes examined via giant dipole resonance lineshapes in hot light-mass systems. Physical Review C, 2010, 81, .	2.9	36
70	Rotational alignments in $^{235}\text{U}$ and the possible role of $^{15}\text{Np}$ and the	2.9	7
71	Change over from compound nuclear fission to quasi-fission. , 2009, , .		0
72	Effect of and alignments in the shape of $^{75}\text{Br}$ from lifetime measurement. Nuclear Physics A, 2009, 829, 137-150.	1.5	27

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73	Band structures in near spherical $^{138}\text{Ce}$ . Nuclear Physics A, 2009, 825, 16-38.	1.5	17
74	Deformation of rotational structures in $^{73}\text{Kr}$ and $^{74}\text{Rb}$ : Probing the additivity principle at triaxial shapes. Physical Review C, 2008, 78, .	2.9	9
75	Giant dipole resonance width in nuclei near Sn at low temperature and high angular momentum. Physical Review C, 2008, 77, .	2.9	20
76	Identification of the $g_{92}$ proton and neutron band crossing in the $N=Z$ nucleus $^{76}\text{Sr}$ . Physical Review C, 2007, 75, .	2.9	18
77	Collective rotation and vibration in neutron-rich $^{180,182}\text{Hf}$ nuclei. Physical Review C, 2007, 75, .	2.9	23
78	Lifetime measurements of triaxial strongly deformed bands in $^{163}\text{Tm}$ . Physical Review C, 2007, 75, .	2.9	15
79	High spin states in $^{143}\text{Sm}$ . Physical Review C, 2006, 73, .	2.9	21
80	Search For Wobbling Excitations In Hf Nuclei: Are The SD Bands Triaxial?. AIP Conference Proceedings, 2005, , .	0.4	0
81	Structure Of Multi-Quasiparticle Isomers In The Region Of $^{177}\text{Lu}$ . AIP Conference Proceedings, 2005, , .	0.4	0
82	Identification of low-spin states in $^{111}\text{Sb}$ : Test of spin-orbit coupling in light nuclei. Physical Review C, 2005, 71, .	2.9	10
83	Structure of two-, four-, and six-quasiparticle isomers in $^{174}\text{Yb}$ and $K$ -forbidden decays. Physical Review C, 2005, 71, .	2.9	41
84	Influence of Nuclear Structure on Sub-Barrier Hindrance in $\text{Ni}+\text{Ni}$ Fusion. Physical Review Letters, 2004, 93, .	7.8	156
85	$K$ -Mixing and fast decay of a seven-quasiparticle isomer in $^{179}\text{Ta}$ . European Physical Journal A, 2004, 22, 23-27.	2.5	17
86	High-spin states, lifetime measurements and isomers in $^{181}\text{Os}$ . Nuclear Physics A, 2003, 728, 287-338.	1.5	11
87	Proton decay study of $^{150}\text{Lu}$ and $^{150}\text{Lm}$ . Physical Review C, 2003, 68, .	2.9	20
88	Configuration dependence of deformation in $^{183}\text{Au}$ . Physical Review C, 2002, 66, .	2.9	18
89	Shape evolution of yrast-band in $^{78}\text{Kr}$ . Nuclear Physics A, 2002, 700, 59-69.	1.5	14
90	High Spin States in $^{70}\text{Ge}$ [Erratum: APH N.S., Heavy Ion Physics 11 (2000) 189]. Acta Physica Hungarica A Heavy Ion Physics, 2001, 13, 253-258.	0.4	6

#	ARTICLE	IF	CITATIONS
91	Shape of $^{80}\text{Krat}$ high spin. Physical Review C, 2001, 64, .	2.9	23