

# Gopal Mukherjee

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

1,059  
citations

430874

18  
h-index

501196

28  
g-index

92  
all docs

92  
docs citations

92  
times ranked

794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Nuclear Structure on Sub-Barrier Hindrance in Ni+Ni Fusion. Physical Review Letters, 2004, 93, .	7.8	156
2	Estimation of direct components of the decay of the Hoyle state. Physical Review C, 2013, 88, .	2.9	44
3	Structure of two-, four-, and six-quasiparticle isomers in Yb174 and K-forbidden decays. Physical Review C, 2005, 71, .	2.9	41
4	Extreme nuclear shapes examined via giant dipole resonance line shapes in hot light-mass systems. Physical Review C, 2010, 81, .	2.9	36
5	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
6	First Observation of Multiple Transverse Wobbling Bands of Different Kinds in $^{238}\text{U}$ . Physical Review Letters, 2020, 125, 132501.	7.8	30
7	Effect of and alignments in the shape of $^{75}\text{Br}$ from lifetime measurement. Nuclear Physics A, 2009, 829, 137-150.	1.5	27
8	Shape coexistence in the near-spherical $^{142}\text{Sm}$ nucleus. Physical Review C, 2014, 89, .	2.9	26
9	Experimental investigation of shell-model excitations of $^{89}\text{Zr}$ up to high spin. Physical Review C, 2012, 86, .	2.9	25
10	Shape of $^{80}\text{Kr}$ at high spin. Physical Review C, 2001, 64, .	2.9	23
11	Collective rotation and vibration in neutron-rich Hf180,182 nuclei. Physical Review C, 2007, 75, .	2.9	23
12	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
13	High spin states in $^{143}\text{Sm}$ . Physical Review C, 2006, 73, .	2.9	21
14	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
15	Proton decay study of $^{150}\text{Lu}$ and $^{150}\text{Lu}$ . Physical Review C, 2003, 68, .	2.9	20
16	Giant dipole resonance width in nuclei near Sn at low temperature and high angular momentum. Physical Review C, 2008, 77, .	2.9	20
17	Evidence for quasiparticle in $^{238}\text{U}$ . Physical Review Letters, 2018, 121, 132501.	2.9	20
18	Configuration dependence of deformation in $^{183}\text{Au}$ . Physical Review C, 2002, 66, .	2.9	18



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37	Deformed band structures at high spin in $^{209}\text{Tl}$ . Physical Review C, 2017, 95, .	2.9	10
38	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
39	High spin spectroscopy of $^{201}\text{Tl}$ . Physical Review C, 2013, 88, .	2.9	9
40	Fission fragment mass distributions in reactions populating $^{209}\text{Pb}$ . Physical Review C, 2016, 94, .	2.9	9
41	Negative-parity high-spin states and a possible magnetic rotation band in $^{135}\text{Pr}$ . Physical Review C, 2015, 92, .	2.9	8
42	Experimental study of $^{26}\text{Al}$ through the $^{1}\text{p}$ pick-up reaction $^{27}(\text{d},\text{t})$ . Physical Review C, 2015, 91, .	2.9	8
43	Fission fragment mass distributions from $^{210}\text{Po}$ and $^{213}\text{At}$ . Physical Review C, 2017, 96, .	2.9	8
44	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
45	Evidence for the reduction of nuclear level density away from the $\hat{I}^2$ -stability line. Physical Review C, 2020, 102, .	2.9	8
46	Rotational alignments in $^{235}\text{Np}$ and the possible role of structural change of the unique-parity $^{\pi}h_{11/2}$ in $^{113}\text{In}$ . Physical Review C, 2011, 84, .	2.9	7
47	Structural change of the unique-parity $^{\pi}h_{11/2}$ in $^{113}\text{In}$ . Physical Review C, 2011, 84, .	2.9	7
48	Band structures and intruder $i_{13/2}$ state in $^{197}\text{Tl}$ . Physical Review C, 2013, 88, .	2.9	7
49	A new high-spin isomer in $^{195}\text{Bi}$ . European Physical Journal A, 2015, 51, 1.	2.5	7
50	Experimental investigation of $T=1$ analog states of $^{26}\text{Al}$ and $^{26}\text{Mg}$ . Physical Review C, 2016, 93, .	2.9	7
51	High spin states in $^{63}\text{Cu}$ . European Physical Journal A, 2018, 54, 1.	2.5	7
52	Observation of rotation about the longest principal axis in $^{89}\text{Zr}$ . Physical Review C, 2019, 99, .	2.9	7
53	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
54	Return of backbending in $^{169}\text{Tm}$ and the effect of the $^{\pi}N_{98}$ deformed shell gap. Physical Review C, 2017, 95, .	2.9	6

#	ARTICLE	IF	CITATIONS
55	In-beam spectroscopic study of $Zn$ . Physical Review C, 2019, 100, .	2.9	6
56	Extremely asymmetric shears band in Sm143. Physical Review C, 2018, 98, .	2.9	5
57	Abrupt phase change of the core rotation in the 143Sm nucleus. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 143-148.	4.1	5
58	Effect of neutron alignments on the structure of $Tl$ . Physical Review C, 2019, 99, .	2.9	5
59	Evolution of collectivity and shape transition in $Zn$ . Physical Review C, 2020, 102, .	2.9	5
60	Evidence of octupole correlation in Se79. Physical Review C, 2021, 104, .	2.9	5
61	High-spin states in $Cs$ and the shell model description. Physical	2.9	4
62	$\gamma$ st and non- $\gamma$ st spectroscopy of $Tl$ using $\gamma$ -induced reactions. Physical Review C, 2018, 98, .	2.9	4
63	Experimental evidence of exact E(5) symmetry in $Kr$ . Physical Review C, 2021, 104, .	2.9	4
64	Study of shape evolution of nuclei with $Z=48$ and $N=60$ . Nuclear Physics A, 2022, 1023, 122449.	1.5	4
65	Fusion-fission dynamics studies using mass distribution as a probe. Pramana - Journal of Physics, 2015, 85, 291-301.	1.8	3
66	Fragment emission mechanism in the S32+C12 reaction. Physical Review C, 2017, 95, .	2.9	3
67	Spectroscopic investigation of complex nuclear excitations in $Ga$ . Physical Review C, 2020, 102, .	2.9	3
68	Observation of signature partner bands in $Sb$ . Physical Review C, 2020, 101, .	2.9	3
69	Excitation energy and angular momentum dependence of the nuclear level density parameter around $A=110$ . Physical Review C, 2021, 103, .	2.9	3
70	Search for the Hoyle analogue state in $^{16}O$ . European Physical Journal A, 2021, 57, .	2.5	3
71	Different manifestations of triaxial shapes of the positive and negative parity bands in $Os$ . Physical Review C, 2022, 105, .	2.9	3
72	Experimental nuclear physics research using the cyclotron at VECC. European Physical Journal A, 2018, 54, 1.	2.5	2

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73	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
74	Nuclear level density and thermal properties of $^{115}\text{Sn}$ from neutron evaporation. European Physical Journal A, 2021, 57, 1.	2.5	2
75	Evidence for competing bi-faceted compound nucleus fission modes in $^{232}\text{Th}(\bar{1}\pm, f)$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136848.	4.1	2
76	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
77	Decay of Hoyle state. Pramana - Journal of Physics, 2014, 83, 673-682.	1.8	1
78	Fission dynamics study in $^{243}\text{Am}$ and $^{254}\text{Fm}$ . Physical Review C, 2016, 93, .	2.9	1
79	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
80	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
81	Alignment effects in the medium-spin level structure of $^{78}\text{Se}$ . Physical Review C, 2022, 105, .		1
82	Search For Wobbling Excitations In Hf Nuclei: Are The SD Bands Triaxial?. AIP Conference Proceedings, 2005, , .	0.4	0
83	Structure Of Multi-Quasiparticle Isomers In The Region Of $^{177}\text{Lu}$ . AIP Conference Proceedings, 2005, , .	0.4	0
84	Change over from compound nuclear fission to quasi-fission. , 2009, , .		0
85	Transitional nuclei near shell closures. , 2014, , .		0
86	High spin spectroscopy of near spherical nuclei: Role of intruder orbitals. , 2014, , .		0
87	Effect of clustering on the emission of light charged particles. European Physical Journal A, 2018, 54, 1.	2.5	0
88	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
89	Complex fragment emission in dissipative binary decay of $^{74}\text{Kr}$ . Physical Review C, 2021, 103, .	2.9	0
90	Signature of fusion suppression in complex fragment emission. Physical Review C, 2022, 105, .	2.9	0

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91	Structural evolution and $K$ mixing in $V$ Physical Review C, 2022, 105, .	2.9	0