

Gopal Mukherjee

List of Publications by Year in descending order

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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 ^{174}Yb and K-forbidden decays. Physical Review C, 2005, 71, .	2.9	41
4	Extreme nuclear shapes examined via giant dipole resonance lineshapes in hot light-mass systems. Physical Review C, 2010, 81, .	2.9	36
5	Observation of multiple doubly degenerate bands in ^{195}Tl . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 768-772. First Observation of Multiple Transverse Wobbling Bands of Different Kinds in Au . xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Au</mml:mi></mml:mrow><mml:mprescripts /><mml:mi>183</mml:mi></mml:mmultiscripts></mml:mrow></mml:math>.	4.1	33
6	Physical Review Letters, 2020, 125, 132501. Effect of and alignments in the shape of ^{75}Br from lifetime measurement. Nuclear Physics A, 2009, 829, 137-150.	7.8	30
7	Shape coexistence in the near-spherical ^{142}Sm nucleus. Physical Review C, 2014, 89, .	1.5	27
8	Experimental investigation of shell-model excitations of Zr up to high spin. Physical Review C, 2012, 86, .	2.9	26
9	Shape of ^{80}Kr at high spin. Physical Review C, 2001, 64, .	2.9	23
10	Collective rotation and vibration in neutron-rich $^{180,182}\text{Hf}$ nuclei. Physical Review C, 2007, 75, .	2.9	23
11	New high precision study on the decay width of the Hoyle state in ^{12}C . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 130-133.	4.1	22
12	High spin states in ^{143}Sm . Physical Review C, 2006, 73, .	2.9	21
13	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
14	Proton decay study of ^{150}Lu and ^{150}Lm . Physical Review C, 2003, 68, .	2.9	20
15	Giant dipole resonance width in nuclei near Sn at low temperature and high angular momentum. Physical Review C, 2008, 77, .	2.9	20
16	Evidence of quasirotation in the Sn . display="inline"><mml:mmultiscripts><mml:mi>\text{Sn}</mml:mi><mml:mprescripts /><mml:mi>16</mml:mi></mml:mmultiscripts></mml:math>.	2.9	20
17	Configuration dependence of deformation in ^{183}Au . Physical Review C, 2002, 66, .	2.9	18

#	ARTICLE	IF	CITATIONS
19	Identification of the g92 proton and neutron band crossing in the N=Z nucleus Sr76. Physical Review C, 2007, 75, .	2.9	18
20	K-Mixing and fast decay of a seven-quasiparticle isomer in 179Ta. European Physical Journal A, 2004, 22, 23-27.	2.5	17
21	Band structures in near spherical 138Ce. Nuclear Physics A, 2009, 825, 16-38.	1.5	17
22	Lifetime measurements of triaxial strongly deformed bands in Tm163. Physical Review C, 2007, 75, .	2.9	15
23	Onset of deformation at $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block" \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \text{ N } \rangle \langle \text{mml:mo} = \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \text{ 112 } \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{ m12 } \rangle \text{ in Bi nuclei. Physical Review C, 2012, 85, .}$	2.9	15
24	Multiple magnetic rotational bands based on proton alignment in Eu143. Physical Review C, 2014, 90, .	2.9	15
25	Shape evolution of yrast-band in 78Kr. Nuclear Physics A, 2002, 700, 59-69.	1.5	14
26	Antimagnetic rotation and sudden change of electric quadrupole transition strength in 143 Eu. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 387-391.	4.1	13
27	Excitation energy dependence of the level density parameter close to the doubly magic $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block" \rangle \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \text{ Pb } \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \text{ p13 } \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \text{ 208 } \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle \text{ . Physical Review C, 2016, 94, .}$	2.9	13
28	High-spin states, lifetime measurements and isomers in 181Os. Nuclear Physics A, 2003, 728, 287-338.	1.5	11
29	Complex-fragment emission in low-energy light-ion reactions. Physical Review C, 2012, 85, .	2.9	11
30	High spin structure in 130,131Ba. European Physical Journal A, 2014, 50, 1.	2.5	11
31	Survival of cluster correlation in dissipative binary breakup of Mg*24,25. Physical Review C, 2016, 94, .	2.9	11
32	Evidence of antimagnetic rotation in an odd-odd nucleus: The case of 142Eu. Physical Review C, 2017, 96, .	2.9	11
33	Revealing multiple band structures in $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block" \rangle \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \text{ Xe } \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \text{ p13 } \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \text{ 131 } \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \text{ from } \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block" \rangle \langle \text{mml:mi} \text{ I\pm } \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{ -induced reactions. Physical Review C, 2020, 101, .}$	2.9	11
34	Identification of low-spin states in Sb111: Test of spin-orbit coupling in light nuclei. Physical Review C, 2005, 71, .	2.9	10
35	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
36	Shears mechanism and development of collectivity in Sm141. Physical Review C, 2016, 94, .	2.9	10

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37	Deformed band structures at high spin in mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Tl} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 200 \langle / \text{mml:mn} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle$. Physical Review C, 2017, 95, .	2.9	10
38	Deformation of rotational structures in Kr73 and Rb74: Probing the additivity principle at triaxial shapes. Physical Review C, 2008, 78, .	2.9	9
39	High spin spectroscopy of 201Tl. Physical Review C, 2013, 88, .	2.9	9
40	Fission fragment mass distributions in reactions populating mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Pb} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 200 \langle / \text{mml:mn} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle$. Physical Review C, 2016, 94, .	2.9	9
41	Negative-parity high-spin states and a possible magnetic rotation band in Pr7659135. Physical Review C, 2015, 92, .	2.9	8
42	Experimental study of Al26 through the 1n pick-up reaction Al27(d,t). Physical Review C, 2015, 91, .	2.9	8
43	Fission fragment mass distributions from Po210 and At213. 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 β^2 -stability line. Physical Review C, 2020, 102, .	2.9	8
46	Rotational alignments in mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}$ $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{ mathvariant}=\text{"normal"} \rangle \text{Np} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 235 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle$ and the possible role of mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{i} \langle / \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{h} \langle / \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 11 \langle / \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:math}$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"in"}$. Physical Review C, 2011, 84, .	2.9	7
47	Structural change of the unique parity mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{mml:mo} \rangle \langle / \text{mml:mo} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:math}$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"in"}$. Physical Review C, 2011, 84, .	2.9	7
48	Band structures and intruder $\text{f}_{13/2}$ state in 197Tl. Physical Review C, 2013, 88, .	2.9	7
49	A new high-spin isomer in 195Bi. European Physical Journal A, 2015, 51, 1.	2.5	7
50	Experimental investigation of T=1 analog states of Al26 and Mg26. Physical Review C, 2016, 93, .	2.9	7
51	High spin states in 63Cu. European Physical Journal A, 2018, 54, 1.	2.5	7
52	Observation of rotation about the longest principal axis in mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Zr} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 89 \langle / \text{mml:mn} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle$. Physical Review C, 2019, 99, .	2.9	7
53	High Spin States in 70 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 mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Tm} \langle / \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 169 \langle / \text{mml:mn} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle$ and the effect of the mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{N} \langle / \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle / \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 98 \langle / \text{mml:mn} \rangle$ deformed shell gap. Physical Review C, 2017, 95, .	2.9	6

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55	In-beam spectroscopic study of Zn . Physical Review C, 2019, 100, . Extremely asymmetric shears band in Sm143. Physical Review C, 2018, 98, .	2.9	6
56	Abrupt phase change of the core rotation in the ^{143}Sm nucleus. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 143-148.	4.1	5
57	Effect of neutron alignments on the structure of Tl . Physical Review C, 2019, 99, .	2.9	5
58	Evolution of collectivity and shape transition in Zn . Physical Review C, 2020, 102, .	2.9	5
59	Evidence of octupole correlation in Se79. Physical Review C, 2021, 104, .	2.9	5
60	High-spin states in Cs and the shell model description. Physical Yrast and non-yrast spectroscopy of Tl . Physical Review C, 2018, 98, .	2.9	4
61	Experimental evidence of exact E(5) symmetry in Kr . Physical Review C, 2021, 104, .	2.9	4
62	Study of shape evolution of nuclei with $40 \leq Z \leq 48$ and $50 < N < 60$. Nuclear Physics A, 2022, 1023, 122449.	1.5	4
63	Fusion-fission dynamics studies using mass distribution as a probe. Pramana - Journal of Physics, 2015, 85, 291-301.	1.8	3
64	Fragment emission mechanism in the S32+C12 reaction. Physical Review C, 2017, 95, .	2.9	3
65	Spectroscopic investigation of complex nuclear excitations in Ga . Physical Review C, 2020, 102, .	2.9	3
66	Observation of signature partner bands in Sb . Physical Review C, 2020, 101, .	2.9	3
67	Excitation energy and angular momentum dependence of the nuclear level density parameter around $A \approx 110$. Physical Review C, 2021, 103, .	2.9	3
68	Search for the Hoyle analogue state in ^{16}O . European Physical Journal A, 2021, 57, .	2.5	3
69	Different manifestations of triaxial shapes of the positive and negative parity bands in Os . Physical Review C, 2022, 105, .	2.9	3
70	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}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}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 $^{232}\text{Th}(\hat{\pm}, \text{f})$ 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 ~ 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 Am243 and Fm254 . Physical Review C, 2016, 93, .	2.9	1
79	Lifetime measurements in the yrast band of the gamma-soft nuclei ^{131}Ce and ^{133}Pr . Pramana - Journal of Physics, 2016, 87, 1.	1.8	1
80	Study of ^{26}Mg through 1p pick-up reaction $^{27}\text{Al}(\text{d}, 3\text{He})$. International Journal of Modern Physics E, 2017, 26, 1750064.	1.0	1
81	Alignment effects in the medium-spin level structure of Se . Physical Review C, 2022, 105, .	1	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}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}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 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 mixing in mathvariant="normal">V. Physical Review C, 2022, 105, .	2.9	0