

# Rajarshi Raut

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

1,076  
citations

394421

19  
h-index

454955

30  
g-index

84  
all docs

84  
docs citations

84  
times ranked

828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-phonon multiplets in $^{116}\text{Sn}$ . Nuclear Physics A, 2022, 1018, 122375.	1.5	1
2	Evidence for competing bi-faceted compound nucleus fission modes in $^{232}\text{Th}(\hat{I}_{\pm}, f)$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136848.	4.1	2
3	Magnetic rotational band in $^{116}\text{Sb}$ . Nuclear Physics A, 2022, 1019, 122382.	1.5	2
4	Alignment effects in the medium-spin level structure of $^{78}\text{Se}$ . Physical Review C, 2022, 105, .	2.9	1
5	Different manifestations of triaxial shapes of the positive and negative parity bands in $^{187}\text{Os}$ . Physical Review C, 2022, 105, .	2.9	3
6	Structural evolution and $K$ mixing in $^{49}\text{V}$ . Physical Review C, 2022, 105, .	2.9	0
7	Evidence of antimagnetic rotational motion in $^{103}\text{Pd}$ . Physical Review C, 2021, 103, .	2.9	6
8	New lifetime measurement for the $^{212}\text{Po}$ level in $^{112}\text{Sn}$ by the Doppler-shift attenuation method. Physical Review C, 2021, 103, .	2.9	2
9	Experimental evidence of exact $E(5)$ symmetry in $^{82}\text{Kr}$ . Physical Review C, 2021, 104, .	2.9	4
10	Collective and noncollective states in $^{66}\text{Zn}$ . Physical Review C, 2021, 104, .	2.9	5
11	Evidence of octupole correlation in $^{79}\text{Se}$ . Physical Review C, 2021, 104, .	2.9	5
12	Exploring the structure of Xe isotopes in $A \sim 130$ region: Single particle and collective excitations. EPJ Web of Conferences, 2020, 232, 04001.	0.3	0
13	First Observation of Multiple Transverse Wobbling Bands of Different Kinds in $^{183}\text{Au}$ . Physical Review C, 2020, 101, .	7.8	30
14	Investigation of different possible excitation modes in neutron-rich $^{78}\text{As}$ . Physical Review C, 2020, 102, .	2.9	2
15	Quasi- $\hat{I}^3$ band in $^{114}\text{Te}$ . Physical Review C, 2020, 101, .	2.9	3
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 $\hat{I}_{\pm}$ -induced reactions. Physical Review C, 2020, 101, .	2.9	11
18	Lifetimes of core-excited states in semi-magic $^{95}\text{Rh}$ . European Physical Journal A, 2020, 56, 1.	2.5	2

#	ARTICLE	IF	CITATIONS
19	Interplay between single particle and collective excitation in $^{49}\text{V}$ . Journal of Physics: Conference Series, 2020, 1643, 012114.	0.4	0
20	Measurement of the $21^+$ level lifetime in $^{120}\text{Sn}$ by the Doppler shift attenuation method: Evidence of enhanced collectivity. Physical Review C, 2019, 100, .	2.9	1
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	Single particle configurations in $^{61}\text{Ni}$ . Physical Review C, 2019, 99, .	2.9	5
23	Single-particle excitations in the level structure of $^{64}\text{Cu}$ . Physical Review C, 2018, 97, .	2.6	10
24	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
25	Astrophysical relevance of the low-energy dipole strength of $^{206}\text{Pb}$ . EPJ Web of Conferences, 2018, 178, 04003.	0.3	2
26	Extremely asymmetric shears band in $^{143}\text{Sm}$ . Physical Review C, 2018, 98, .	2.9	5
27	M1 and E2 transition rates from core-excited states in semi-magic $^{94}\text{Ru}$ . European Physical Journal A, 2018, 54, 1.	2.5	5
28	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
29	Coexistence of principal and tilted axis rotation in $^{110}\text{Ag}$ . Physical Review C, 2018, 98, .	2.9	4
30	Possible onset of multifaceted excitation modes in $^{29}\text{Al}$ . Physical Review C, 2018, 98, .	2.9	2
31	Evidence of antimagnetic rotation in an odd-odd nucleus: The case of $^{142}\text{Eu}$ . Physical Review C, 2017, 96, .	2.9	11
32	Pygmy and core polarization dipole modes in $^{206}\text{Pb}$ : Connecting nuclear structure to stellar nucleosynthesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 20-25.	4.1	43
33	Extending the application of DSAM to atypical stopping media. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 841, 17-23.	1.6	13
34	Lifetime Measurements with the Doppler Shift Attenuation Method Using a Thick Homogeneous Production Target --- Verification of the Method. Acta Physica Polonica B, 2017, 48, 325.	0.8	2
35	Practicing DSAM in aberrant domain: use of multi-disciplinary techniques. Journal of Physics: Conference Series, 2016, 755, 012004.	0.4	0
36	Dipole response of the odd-proton nucleus $^{205}\text{Tl}$ up to the neutron-separation energy. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 115101.	3.6	6

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37	High spin $\hat{I}^3$ -ray spectroscopy in Ca41. Physical Review C, 2016, 94, .	2.9	3
38	Shape coexistence in $^{153}\text{Ho}$ . Physical Review C, 2016, 94, .	2.9	3
39	Shears mechanism and development of collectivity in $^{141}\text{Sm}$ . Physical Review C, 2016, 94, .	2.9	10
40	Evidence for octupole correlation and chiral symmetry breaking in $^{124}\text{Cs}$ . Physical Review C, 2015, 92, .	2.9	31
41	Nuclear Structure Studies with Gamma-Ray Beams. EPJ Web of Conferences, 2015, 93, 01030.	0.3	1
42	QPM Analysis of $^{205}\text{Tl}$ Nuclear Excitations below the Giant Dipole Resonance. EPJ Web of Conferences, 2015, 93, 01044.	0.3	0
43	A new high-spin isomer in $^{195}\text{Bi}$ . European Physical Journal A, 2015, 51, 1.	2.5	7
44	Bubble chambers for experiments in nuclear astrophysics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 781, 96-104.	1.6	15
45	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
46	Separation of the $^{20}\text{Ne}$ parity doublet in $^{20}\text{Ne}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 741, 128-133.	4.1	13
47	Spectroscopy and shell model calculations in Si isotopes. Physical Review C, 2015, 91, .	2.9	6
48	Transverse Wobbling in $^{135}\text{Pr}$ . Physical Review Letters, 2015, 114, 082501.	7.8	79
49	Multiple magnetic rotational bands based on proton alignment in $^{143}\text{Eu}$ . Physical Review C, 2014, 90, .	2.9	15
50	Photoneutron strengths in $^{26}\text{Mg}$ at energies of astrophysical interest. Physical Review C, 2014, 89, .	2.9	5
51	Level lifetimes in $^{32}\text{P}$ obtained using the Doppler-shift attenuation method with thick molecular targets. Physical Review C, 2014, 90, .	2.9	14
52	Nuclear structure study of $^{26}\text{Mg}$ following heavy-ion-induced fusion-evaporation reaction. Physical Review C, 2014, 89, .	2.9	12
53	Shape coexistence in the near-spherical $^{142}\text{Sm}$ nucleus. Physical Review C, 2014, 89, .	2.9	26
54	Photoresponse of $^{60}\text{Ni}$ below 10-MeV excitation energy: Evolution of dipole resonances in $^{60}\text{Ni}$ shell nuclei near $^{60}\text{Ni}$ . Physical Review C, 2014, 89, .	2.9	27



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73	Discrete deexcitations in $^{235}\text{U}$ below 3 MeV from nuclear resonance fluorescence. <i>Physical Review C</i> , 2011, 83, .	2.9	49
74	Coarse and Fine Structure of the Pygmy Dipole Resonance. <i>Journal of Physics: Conference Series</i> , 2011, 312, 092058.	0.4	2
75	Energy levels in $^{141}\text{Nd}$ from fusion evaporation study. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 035105.	3.6	8
76	High spin states and isomeric decays in doubly-odd $^{208}\text{Fr}$ . <i>Nuclear Physics A</i> , 2010, 842, 1-14.	1.5	12
77	Measurement of the $^{241}\text{Am}$		