

Rajarshi Raut

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10104029/publications.pdf>

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	Transverse Wobbling in ^{135}Pr . Physical Review C, 2013, 87, .	7.8	79
2	Pygmy dipole strength in ^{86}Kr and systematics of ^{86}N . Physical Review C, 2013, 87, .	2.9	72
3	Electromagnetic dipole strength of ^{136}Ba below ^{136}Kr . Physical Review C, 2013, 87, .	2.9	59
4	Cross-Section Measurements of the ^{86}Kr stretchy = "false" (^{86}Kr). Physical Review C, 2013, 87, .	2.9	49
5	Discrete excitations in ^{235}U below 3 MeV from nuclear resonance fluorescence. Physical Review C, 2011, 83, .	2.9	47
6	Decay pattern of the pygmy dipole resonance in ^{60}Ni . Physical Review C, 2013, 87, .	4.1	43
7	Pygmy and core polarization dipole modes in ^{206}Pb : Connecting nuclear structure to stellar nucleosynthesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 20-25.	2.9	38
8	Dipole response of ^{76}Se above 4 MeV. Physical Review C, 2013, 88, .	7.8	30
9	Evidence for octupole correlation and chiral symmetry breaking in ^{124}Cs . Physical Review C, 2015, 92, .	2.9	27
10	First Observation of Multiple Transverse Wobbling Bands of Different Kinds in ^{183}Au . Physical Review Letters, 2020, 125, 132501.	2.9	26
11	Evolution of dipole resonances in ^{60}Ni below 10-MeV excitation energy. Physical Review Letters, 2020, 125, 132501.	2.9	26
12	Shape coexistence in the near-spherical ^{142}Sm nucleus. Physical Review C, 2014, 89, .	1.6	25
13	Characterisation of a Compton suppressed Clover detector for high energy gamma rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 266-272.	2.9	25
14	Cross-section measurements of neutron-induced reactions on GaAs using monoenergetic beams from 7.5 to 15 MeV. Physical Review C, 2011, 83, .	1.5	23
15	Study of intruder band in ^{112}Sn . Nuclear Physics A, 2007, 789, 1-14.	2.9	21
16	High spin states in ^{143}Sm . Physical Review C, 2006, 73, .	1.5	21
17	High spin structure of ^{35}Cl and the ν fp shell gap. Nuclear Physics A, 2007, 781, 277-295.	1.6	21
18	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.		

#	ARTICLE	IF	CITATIONS
19	Integration Cross Section of the Reaction ${}^4\text{He} + \text{Bi} \rightarrow \text{P} + \text{Tj}$ ETQq1 1 0.784314 rgB	7.8	20
20	Onset of deformation at $N=112$ in Bi nuclei: Physical Review C, 2012, 85, 1	2.9	15
21			

#	ARTICLE	IF	CITATIONS
37	Experimental study of the 2p-2h band in Sn111. Physical Review C, 2008, 78, .	2.9	9
38	Separation of the $1^{\pi}2^{\pi}$ parity doublet in ^{20}Ne . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 741, 128-133.	2.9	9
39	Energy levels in ^{141}Nd from fusion evaporation study. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 035105.	3.6	8
40	Shape evolution in ^{123}Cs and ^{124}Ba nuclei. Physical Review C, 2013, 88, .	2.9	8
41	A new high-spin isomer in ^{195}Bi . European Physical Journal A, 2015, 51, 1.	2.5	7
42	Spectroscopy and shell model calculations in Si isotopes. Physical Review C, 2015, 91, .	2.9	6
43	Dipole response of the odd-proton nucleus ^{205}Tl up to the neutron-separation energy. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 115101.	3.6	6
44	Evidence of antimagnetic rotational motion in ^{103}Pd . Physical Review C, 2021, 103, .	2.9	6
45	Photoneutron strengths in ^{26}Mg at energies of astrophysical interest. Physical Review C, 2014, 89, .	2.9	5
46	Extremely asymmetric shears band in ^{143}Sm . Physical Review C, 2018, 98, .	2.9	5
47	M1 and E2 transition rates from core-excited states in semi-magic ^{94}Ru . European Physical Journal A, 2018, 54, 1.	2.5	5
48	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
49	Single particle configurations in ^{61}Ni . Physical Review C, 2019, 99, .	2.9	5
50	Collective and noncollective states in ^{66}Zn . Physical Review C, 2021, 104, .	2.9	5
51	Evidence of octupole correlation in ^{79}Se . Physical Review C, 2021, 104, .	2.9	5
52	Study of yrast band in ^{155}Tm . Nuclear Physics A, 2007, 794, 1-9.	1.5	4
53	Two-body photodisintegration of ^3He between 7 and 16 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 121-126.	4.1	4
54	Shape coexistence in ^{153}Ho . Physical Review C, 2016, 94, .	2.9	4

#	ARTICLE	IF	CITATIONS
55	Coexistence of principal and tilted axis rotation in Ag110. Physical Review C, 2018, 98, .	2.9	4
56	Experimental evidence of exact E(5) symmetry in Kr^{82} . Physical Review C, 2021, 104, .	2.9	4
57	Cross-Section Measurements of the $^{86}\text{Kr}(\hat{I}^3, n)$ Reaction to Probe the s-Process Branching at ^{85}Kr . Journal of Physics: Conference Series, 2012, 337, 012048.	0.4	3
58	High spin \hat{I}^3 -ray spectroscopy in Ca41. Physical Review C, 2016, 94, .	2.9	3
59	Quasi- \hat{I}^3 band in Te114. Physical Review C, 2020, 101, .	2.9	3
60	Observation of signature partner bands in Sb^{117} . Physical Review C, 2020, 101, .	2.9	3
61	Different manifestations of triaxial shapes of the positive and negative parity bands in Os^{187} . Physical Review C, 2022, 105, .	2.9	3
62	Coarse and Fine Structure of the Pygmy Dipole Resonance. Journal of Physics: Conference Series, 2011, 312, 092058.	0.4	2
63	Astrophysical relevance of the low-energy dipole strength of ^{206}Pb . EPJ Web of Conferences, 2018, 178, 04003.	0.3	2
64	Possible onset of multifaceted excitation modes in Al^{29} . Physical Review C, 2018, 98, .	2.9	2
65	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
66	Investigation of different possible excitation modes in neutron-rich As^{78} . Physical Review C, 2020, 102, .	2.9	2
67	Sn^{112} level in Sn^{112} by the Doppler-shift attenuation method. Physical Review C, 2021, 103, .	2.9	2
68	Lifetimes of core-excited states in semi-magic ^{95}Rh . European Physical Journal A, 2020, 56, 1.	2.5	2
69	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
70	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
71	Magnetic rotational band in ^{116}Sb . Nuclear Physics A, 2022, 1019, 122382.	1.5	2
72	Cross Section Measurements of Neutron Induced Reactions on GaAs using Monoenergetic Beams from 7.5 to 15 MeV. Journal of Physics: Conference Series, 2011, 312, 062008.	0.4	1

#	ARTICLE	IF	CITATIONS
73	Nuclear Structure Studies with Gamma-Ray Beams. EPJ Web of Conferences, 2015, 93, 01030.	0.3	1
74	Measurement of the 21+ level lifetime in Sn120 by the Doppler shift attenuation method: Evidence of enhanced collectivity. Physical Review C, 2019, 100, .	2.9	1
75	Three-phonon multiplets in 116Sn. Nuclear Physics A, 2022, 1018, 122375.	1.5	1
76	Alignment effects in the medium-spin level structure of ^{78}Se . Physical Review C, 2022, 105, .	2.9	1
77	Energy separation of the $1^+ / 1^{\sim}$ parity doublet in ^{20}Ne . Journal of Physics: Conference Series, 2012, 366, 012003.	0.4	0
78	QPM Analysis of ^{205}Tl Nuclear Excitations below the Giant Dipole Resonance. EPJ Web of Conferences, 2015, 93, 01044.	0.3	0
79	Practicing DSAM in aberrant domain: use of multi-disciplinary techniques. Journal of Physics: Conference Series, 2016, 755, 012004.	0.4	0
80	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
81	SYSTEMATICS OF THE ELECTRIC AND MAGNETIC DIPOLE RESPONSE IN $N=82$ ISOTONES BELOW THE NEUTRON SEPARATION ENERGY. , 2013, , .		0
82	DIPOLE RESPONSE OF ^{76}Se UP TO 9 MeV. , 2013, , .		0
83	Interplay between single particle and collective excitation in ^{49}V . Journal of Physics: Conference Series, 2020, 1643, 012114.	0.4	0
84	Structural evolution and K mixing in ^{49}V . Physical Review C, 2022, 105, .	2.9	0