

Pratap Roy

List of Publications by Year in descending order

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papers

426
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759233

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55
all docs

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docs citations

55
times ranked

483
citing authors

#	ARTICLE	IF	CITATIONS
1	Signature of fusion suppression in complex fragment emission. Physical Review C, 2022, 105, .	2.9	0
2	Preparation of isotopically enriched $^{112,116,120,124}\text{Sn}$ targets at VECC. Vacuum, 2022, 201, 111073.	3.5	2
3	Isospin dependence of nuclear level density at $A \approx 120$ mass region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 831, 137145.	4.1	2
4	Production of high-energy γ rays in proton- and α -induced reactions. Physical Review C, 2022, 105, .	2.9	0
5	Nuclear level density and thermal properties of ^{115}Sn from neutron evaporation. European Physical Journal A, 2021, 57, 1.	2.5	2
6	Excitation energy and angular momentum dependence of the nuclear level density parameter around $A \approx 110$. Physical Review C, 2021, 103, .	2.9	3
7	Complex fragment emission in dissipative binary decay of ^{74}Kr . Physical Review C, 2021, 103, .	2.9	0
8	Puzzle of collective enhancement in the nuclear level density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136173.	4.1	7
9	No signature of the saturation of giant dipole resonance width in medium-mass nuclei. Physical Review C, 2021, 104, .	2.9	1
10	Evidence for the reduction of nuclear level density away from the β -stability line. Physical Review C, 2020, 102, .	2.9	8
11	Probing the Jacobi shape transition in hot and rotating ^{43}Sc . Physical Review C, 2020, 102, .	2.9	0
12	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
13	Effect of neutron alignments on the structure of ^{199}Tl . Physical Review C, 2019, 99, .	2.9	5
14	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
15	A compact scintillator based position sensitive detector system for gamma ray tracking applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 930, 100-104.	1.6	3
16	Band structures in ^{169}Tm and the structures of Tm isotopes around $N = 98$. European Physical Journal A, 2019, 55, 1.	2.5	0
17	Experimental signature of collective enhancement in nuclear level density. Physical Review C, 2018, 97, .	2.9	19
18	Effect of clustering on the emission of light charged particles. European Physical Journal A, 2018, 54, 1.	2.5	0

#	ARTICLE	IF	CITATIONS
19	Observation of multiple doubly degenerate bands in ^{195}Tl . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 768-772.	4.1	33
20	Study of giant dipole resonance in hot rotating light mass nucleus ^{31}P . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 423-428.	4.1	10
21	Detailed investigation on the possibility of using EJ-299-33A plastic scintillator for fast neutron spectroscopy in large scale experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 901, 198-202.	1.6	15
22	Direct evidence of fadeout of collective enhancement in nuclear level density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 105-109.	4.1	23
23	Study of ^{26}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
24	Fragment emission mechanism in the $\text{S}32+\text{C}12$ reaction. Physical Review C, 2017, 95, .	2.9	3
25	Optimization of beam dump shielding for K-130 cyclotron at VECC. Applied Radiation and Isotopes, 2017, 128, 216-223.	1.5	4
26	Experimental Determination of $\langle \sigma_{\text{fission}} \rangle$ for Finite Nuclear Matter. Physical Review Letters, 2017, 118, 192501.	2.1	21
27	Fission fragment mass distributions from $\text{Po}210$ and $\text{At}213$. Physical Review C, 2017, 96, .	2.9	8
28	The effect of clusters on fragment emission mechanism. Journal of Physics: Conference Series, 2017, 863, 012064.	0.4	0
29	Exclusive measurement of isospin mixing at high temperature in ^{32}S . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 422-426.	4.1	10
30	Excited states of ^{26}Al studied via the reaction $^{27}\text{Al}(d,t)$. EPJ Web of Conferences, 2016, 117, 07022.	0.3	0
31	Fission fragment mass distributions in reactions populating ^{208}Pb . Physical Review C, 2016, 94, .	2.9	9
32	Experimental investigation of $T=1$ analog states of ^{26}Al and ^{26}Mg . Physical Review C, 2016, 93, .	2.9	7
33	Fission dynamics study in ^{243}Am and ^{254}Fm . Physical Review C, 2016, 93, .	2.9	1
34	Survival of cluster correlation in dissipative binary breakup of $^{24,25}\text{Mg}$. Physical Review C, 2016, 94, .	2.9	11
35	Excitation energy dependence of the level density parameter close to the doubly magic ^{208}Pb . Physical Review C, 2016, 94, .	2.9	13
36	No influence of $a_{\text{N}}=126$ neutron-shell closure in fission-fragment mass distributions. Physical Review C, 2015, 92, .	2.9	9

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37	Experimental study of ^{26}Al through the ^{1}n pick-up reaction $^{27}\text{Al}(\text{d},\text{t})$. Physical Review C, 2015, 91, .	2.9	8
38	Fusion \leftrightarrow fission dynamics studies using mass distribution as a probe. Pramana - Journal of Physics, 2015, 85, 291-301.	1.8	3
39	Fusion \leftrightarrow fission dynamics: fragment mass distribution studies. EPJ Web of Conferences, 2015, 86, 00004.	0.3	2
40	Structure of ^{26}Al studied by one - nucleon transfer reaction $^{27}\text{Al}(\text{d},\text{t})$. EPJ Web of Conferences, 2015, 86, 00055.	0.3	1
41	Fragment emission studies in low energy light heavy-ion reactions. EPJ Web of Conferences, 2015, 86, 00036.	0.3	1
42	Angular momentum dependence of the nuclear level density in the $^{27}\text{Al}(\text{d},\text{t})$ reaction. Physical Review C, 2015, 91, .	2.9	17
43	Direct evidence of α -washing out of nuclear shell effects. Physical Review C, 2015, 91, .	2.9	17
44	Further limit on 3H^+ decay of Hoyle state. EPJ Web of Conferences, 2014, 66, 03072.	0.3	0
45	Search for rotational state of Hoyle state in complete kinematic experiment $^{12}\text{C}(\text{H}^+, \text{H}^+ \rightarrow \text{H}^+) 3\text{H}^+$. EPJ Web of Conferences, 2014, 66, 03010.	0.3	0
46	Decay of Hoyle state. Pramana - Journal of Physics, 2014, 83, 673-682.	1.8	1
47	Angular momentum dependence of the nuclear level density parameter. EPJ Web of Conferences, 2014, 66, 03073.	0.3	4
48	Publisher's Note: Estimation of direct components of the decay of the Hoyle state [Phys. Rev. C 88, 021601(R) (2013)]. Physical Review C, 2013, 88, .	2.9	2
49	Estimation of direct components of the decay of the Hoyle state. Physical Review C, 2013, 88, .	2.9	44
50	Effect of collectivity on the nuclear level density. Physical Review C, 2013, 88, .	2.9	22
51	Angular-momentum-gated light-particle evaporation spectra from $^{97}\text{Tc}^*$ and $^{62}\text{Zn}^*$ systems. Physical Review C, 2012, 86, .	2.9	15
52	Variation of nuclear level density with angular momentum. Physical Review C, 2012, 85, .	2.9	23
53	Projectile structure effects in multi-nucleon and cluster transfers in $^{16,18}\text{O}+^{164}\text{Dy}, ^{208}\text{Pb}$ reactions. Journal of Physics: Conference Series, 2012, 381, 012091.	0.4	4
54	Pulse height and timing characteristics of CsI(Tl)-Si(PIN) detector for and fission fragments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 629, 149-153.	1.6	9

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55	Systematic study of projectile-structure effect on the fusion-barrier distribution. Physical Review C, 2011, 84, .	2.9	1