

# Pratap Roy

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

426  
citations

759233

12  
h-index

794594

19  
g-index

55  
all docs

55  
docs citations

55  
times ranked

483  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Estimation of direct components of the decay of the Hoyle state. Physical Review C, 2013, 88, .                                                                                                                                                                                                   | 2.9 | 44        |
| 2  | 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        |
| 3  | Variation of nuclear level density with angular momentum. Physical Review C, 2012, 85, .                                                                                                                                                                                                          | 2.9 | 23        |
| 4  | 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        |
| 5  | Effect of collectivity on the nuclear level density. Physical Review C, 2013, 88, .                                                                                                                                                                                                               | 2.9 | 22        |
| 6  | 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        |
| 7  | Experimental Determination of $\langle \sigma_{\text{eff}} \rangle$ for Finite Nuclear Matter. Physical Review Letters, 2017, 118, 192501.                                                                                                                                                        | 2.9 | 21        |
| 8  | Experimental signature of collective enhancement in nuclear level density. Physical Review C, 2018, 97, .                                                                                                                                                                                         | 2.9 | 19        |
| 9  | Direct evidence of "washing out" of nuclear shell effects. Physical Review C, 2015, 91, .                                                                                                                                                                                                         | 2.9 | 17        |
| 10 | Angular-momentum-gated light-particle evaporation spectra from $^{97}\text{Tc}^*$ and $^{62}\text{Zn}^*$ systems. Physical Review C, 2012, 86, .                                                                                                                                                  | 2.9 | 15        |
| 11 | 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        |
| 12 | Excitation energy dependence of the level density parameter close to the doubly magic $^{208}\text{Pb}$ . Physical Review C, 2016, 94, .                                                                                                                                                          | 2.9 | 13        |
| 13 | Survival of cluster correlation in dissipative binary breakup of $^{24,25}\text{Mg}$ . Physical Review C, 2016, 94, .                                                                                                                                                                             | 2.9 | 11        |
| 14 | Exclusive measurement of isospin mixing at high temperature in $^{32}\text{S}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 422-426.                                                                                                            | 4.1 | 10        |
| 15 | Study of giant dipole resonance in hot rotating light mass nucleus $^{31}\text{P}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 423-428.                                                                                                        | 4.1 | 10        |
| 16 | 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         |
| 17 | No influence of $A=126$ neutron-shell closure in fission-fragment mass distributions. Physical Review C, 2015, 92, .                                                                                                                                                                              | 2.9 | 9         |
| 18 | Angular momentum dependence of the nuclear level density in the $A < 170$ region. Physical Review C, 2015, 91, .                                                                                                                                                                                  | 2.9 | 9         |

| #  | ARTICLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Fission fragment mass distributions in reactions populating $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \rangle \text{Pb} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 200 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ . Physical Review C, 2016, 94, . | 2.9 | 9         |
| 20 | Experimental study of $\text{Al}^{26}$ through the $1n$ pick-up reaction $\text{Al}^{27}(d,t)$ . Physical Review C, 2015, 91, .                                                                                                                                                                                                                                                                                                                                                                     | 2.9 | 8         |
| 21 | Fission fragment mass distributions from $\text{Po}^{210}$ and $\text{At}^{213}$ . Physical Review C, 2017, 96, .                                                                                                                                                                                                                                                                                                                                                                                   | 2.9 | 8         |
| 22 | 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         |
| 23 | Evidence for the reduction of nuclear level density away from the $\hat{I}^2$ -stability line. Physical Review C, 2020, 102, .                                                                                                                                                                                                                                                                                                                                                                      | 2.9 | 8         |
| 24 | Experimental investigation of $T=1$ analog states of $\text{Al}^{26}$ and $\text{Mg}^{26}$ . Physical Review C, 2016, 93, .                                                                                                                                                                                                                                                                                                                                                                         | 2.9 | 7         |
| 25 | 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         |
| 26 | Effect of neutron alignments on the structure of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \rangle \text{Tl} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 197 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ . Physical Review C, 2019, 99, .            | 2.9 | 5         |
| 27 | 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         |
| 28 | Angular momentum dependence of the nuclear level density parameter. EPJ Web of Conferences, 2014, 66, 03073.                                                                                                                                                                                                                                                                                                                                                                                        | 0.3 | 4         |
| 29 | Optimization of beam dump shielding for K-130 cyclotron at VECC. Applied Radiation and Isotopes, 2017, 128, 216-223.                                                                                                                                                                                                                                                                                                                                                                                | 1.5 | 4         |
| 30 | Fusion $\hat{\epsilon}$ fission dynamics studies using mass distribution as a probe. Pramana - Journal of Physics, 2015, 85, 291-301.                                                                                                                                                                                                                                                                                                                                                               | 1.8 | 3         |
| 31 | Fragment emission mechanism in the $\text{S}^{32}+\text{C}^{12}$ reaction. Physical Review C, 2017, 95, .                                                                                                                                                                                                                                                                                                                                                                                           | 2.9 | 3         |
| 32 | 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         |
| 33 | Excitation energy and angular momentum dependence of the nuclear level density parameter around $\text{A} \approx 110$ . Physical Review C, 2021, 103, .                                                                                                                                                                                                                                                                                                                                            | 2.9 | 3         |
| 34 | 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         |
| 35 | Fusion $\hat{\epsilon}$ fission dynamics: fragment mass distribution studies. EPJ Web of Conferences, 2015, 86, 00004.                                                                                                                                                                                                                                                                                                                                                                              | 0.3 | 2         |
| 36 | Nuclear level density and thermal properties of $^{115}\text{Sn}$ from neutron evaporation. European Physical Journal A, 2021, 57, 1.                                                                                                                                                                                                                                                                                                                                                               | 2.5 | 2         |

| #  | ARTICLE                                                                                                                                                                                          | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Preparation of isotopically enriched $^{112,116,120,124}\text{Sn}$ targets at VECC. Vacuum, 2022, 201, 111073.                                                                                   | 3.5 | 2         |
| 38 | 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         |
| 39 | Systematic study of projectile-structure effect on the fusion-barrier distribution. Physical Review C, 2011, 84, .                                                                               | 2.9 | 1         |
| 40 | Decay of Hoyle state. Pramana - Journal of Physics, 2014, 83, 673-682.                                                                                                                           | 1.8 | 1         |
| 41 | Structure of $^{26}\text{Al}$ studied by one - nucleon transfer reaction $^{27}\text{Al}(d,t)$ . EPJ Web of Conferences, 2015, 86, 00055.                                                        | 0.3 | 1         |
| 42 | Fragment emission studies in low energy light heavy-ion reactions. EPJ Web of Conferences, 2015, 86, 00036.                                                                                      | 0.3 | 1         |
| 43 | Fission dynamics study in $^{243}\text{Am}$ and $^{254}\text{Fm}$ . Physical Review C, 2016, 93, .                                                                                               | 2.9 | 1         |
| 44 | 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         |
| 45 | No signature of the saturation of giant dipole resonance width in medium-mass nuclei. Physical Review C, 2021, 104, .                                                                            | 2.9 | 1         |
| 46 | Further limit on $3^1_{\pm}$ decay of Hoyle state. EPJ Web of Conferences, 2014, 66, 03072.                                                                                                      | 0.3 | 0         |
| 47 | Search for rotational state of Hoyle state in complete kinematic experiment $^{12}\text{C}(\hat{1}_{\pm}, \hat{1}_{\pm} \rightarrow ^3\hat{1}_{\pm})$ . EPJ Web of Conferences, 2014, 66, 03010. | 0.3 | 0         |
| 48 | Excited states of $^{26}\text{Al}$ studied via the reaction $^{27}\text{Al}(d,t)$ . EPJ Web of Conferences, 2016, 117, 07022.                                                                    | 0.3 | 0         |
| 49 | The effect of clusters on fragment emission mechanism. Journal of Physics: Conference Series, 2017, 863, 012064.                                                                                 | 0.4 | 0         |
| 50 | Effect of clustering on the emission of light charged particles. European Physical Journal A, 2018, 54, 1.                                                                                       | 2.5 | 0         |
| 51 | 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         |
| 52 | Probing the Jacobi shape transition in hot and rotating $^{43}\text{Sc}$ . Physical Review C, 2020, 102, .                                                                                       | 2.9 | 0         |
| 53 | Complex fragment emission in dissipative binary decay of $^{26}\text{Al}$ . Physical Review C, 2021, 103, .                                                                                      | 2.9 | 0         |
| 54 | Signature of fusion suppression in complex fragment emission. Physical Review C, 2022, 105, .                                                                                                    | 2.9 | 0         |

| #  | ARTICLE                                                                                                             | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Production of high-energy $\gamma$ rays in proton- and $\alpha$ -induced reactions. Physical Review C, 2022, 105, . | 2.9 | 0         |