

# Anukul Dhal

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

726  
citations

687363

13  
h-index

580821

25  
g-index

51  
all docs

51  
docs citations

51  
times ranked

668  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Current status and highlights of the ELI-NP research program. Matter and Radiation at Extremes, 2020, 5, .  | 3.9 | 114       |
| 2  | Indian National Gamma Array at Inter University Accelerator Centre, New Delhi. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 622, 281-287. | 1.6 | 106       |
| 3  | $^{105}\text{Cd}$ 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.                                      | 2.9 | 51        |
| 4  | 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        |
| 5  | Determination of shell correction energies at saddle point using pre-scission neutron multiplicities. Nuclear Physics A, 2013, 913, 157-169.  | 1.5 | 26        |
| 6  | 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        |
| 7  | High spin spectroscopy and shears mechanism in $^{107}\text{Ag}$ . Physical Review C, 2010, 81, .   | 2.9 | 22        |
| 8  | Structure of $^{32}\text{P}$ at high spins. Physical Review C, 2011, 84, .  | 2.9 | 22        |
| 9  | 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        |
| 10 | Bandcrossing of magnetic rotation bands in $^{137}\text{Pr}$ . Physical Review C, 2007, 76, .   | 2.9 | 21        |
| 11 | Spin-parity measurements in the neutron-rich $N=20$ $^{34}\text{P}$ and $^{36}\text{S}$ nuclei. European Physical Journal A, 2006, 29, 151-159.   | 2.5 | 19        |
| 12 | Spectroscopy of $^{90}\text{Nb}$ at high spin. Physical Review C, 2005, 72, .   | 2.9 | 16        |
| 13 | 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        |
| 14 | Excitation energy dependence of the level density parameter close to the doubly magic $^{208}\text{Pb}$ . Physical Review C, 2016, 94, .  | 2.9 | 13        |
| 15 | 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        |
| 16 | Shape changes at high spin in $^{78}\text{Kr}$ . European Physical Journal A, 2006, 27, 33-36.  | 2.5 | 12        |
| 17 | High spin states in $^{139}\text{Pm}$ . Physical Review C, 2009, 80, .  | 2.9 | 11        |
| 18 | Band structure and shape coexistence in $^{135}\text{Ba}$ . Physical Review C, 2010, 81, .  | 2.9 | 11        |

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|----|---|-----|-----------|
| 19 | Shears mechanism in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 109 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ In. Physical Review C, 2012, 85, .  | 2.9 | 11        |
| 20 | Lifetime measurements of microsecond isomers in the $N=48$ nuclei $Zr88$ and $Mo90$ using recoil-isomer tagging. Physical Review C, 2004, 70, .   | 2.9 | 9         |
| 21 | High-spin states in the odd-odd nucleus $Tb146$ . Physical Review C, 2004, 70, .  | 2.9 | 9         |
| 22 | Shape evolution of the highly deformed $Kr75$ nucleus examined with the Doppler-shift attenuation method. Physical Review C, 2009, 80, .  | 2.9 | 9         |
| 23 | Triaxial shape coexistence and new aligned band in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \langle \text{mathvariant="normal"} \rangle Os \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 178 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ . Physical Review C, 2009, 80, .   | 2.9 | 9         |
| 24 | Lifetime measurement of high spin states in $75Kr$ . Nuclear Physics A, 2010, 834, 72c-74c.   | 1.5 | 9         |
| 25 | High spin band structure of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mssubsup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 38 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle 85 \langle \text{mml:mn} \rangle \langle \text{mml:mssubsup} \rangle \langle \text{mml:mssub} \rangle \langle \text{mml:mi} \rangle \langle \text{mathvariant="normal"} \rangle Sr \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 47 \langle \text{mml:mn} \rangle \langle \text{mml:mssub} \rangle \langle \text{mml:math} \rangle$ . Physical Review  | 2.9 | 9         |
| 26 | Shape coexistence and high spin states in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \langle \text{mathvariant="normal"} \rangle Cr \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 52 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ . Physical Review C, 2007, 76, .   | 2.9 | 8         |
| 27 | Indian National Gamma Array at IUAC. Journal of Physics: Conference Series, 2011, 312, 052015.  | 0.4 | 8         |
| 28 | Beta decay measurements from $\langle \text{sup} \rangle 6 \langle \text{sup} \rangle He$ using an electrostatic ion beam trap. Journal of Physics: Conference Series, 2012, 337, 012020.   | 0.4 | 8         |
| 29 | Fission fragment mass distributions from $Po210$ and $At213$ . Physical Review C, 2017, 96, .   | 2.9 | 8         |
| 30 | Shape evolution in odd- $A$ $137Pm$ . European Physical Journal A, 2012, 48, 1.   | 2.5 | 7         |
| 31 | Loss of collectivity in $79Rb$ . European Physical Journal A, 2006, 28, 277-281.  | 2.5 | 6         |
| 32 | Spectroscopy and shell model calculations in Si isotopes. Physical Review C, 2015, 91, .  | 2.9 | 6         |
| 33 | Return of backbending in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle Tm \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 169 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ and the effect of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 98 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ deformed shell gap. Physical Review C, 2017, 95, . | 2.9 | 6         |
| 34 | High-resolution Gamma-ray Spectroscopy with ELIADe at the Extreme Light Infrastructure. Acta Physica Polonica B, 2019, 50, 329.   | 0.8 | 6         |
| 35 | First in-beam experiment with the ELIADe detectors: a spectroscopic study of $\langle \text{sup} \rangle 130 \langle \text{sup} \rangle La$ . Journal of Instrumentation, 2021, 16, T12001.   | 1.2 | 6         |
| 36 | Tilted foils polarization at REX-ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 685-688.   | 1.4 | 5         |

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|----|--|-----|-----------|
| 37 | Effect of neutron alignments on the structure of $Tl$ . Physical Review C, 2019, 99, .   | 2.9 | 5         |
| 38 | Collective and noncollective states in $Zn$ . Physical Review C, 2021, 104, .  | 2.9 | 5         |
| 39 | Shape evolution with increasing angular momentum in the $Ga66$ nucleus. Physical Review C, 2017, 95, .   | 2.9 | 4         |
| 40 | Yrast and non-yrast spectroscopy of $Tl$ using $\hat{I}_{\pm}$ -induced reactions. Physical Review C, 2018, 98, .  | 2.9 | 4         |
| 41 | High spin spectroscopy and shape evolution in $Cd105$ . Physical Review C, 2015, 91, .   | 2.9 | 3         |
| 42 | High spin $\hat{I}^3$ -ray spectroscopy in $Ca41$ . Physical Review C, 2016, 94, .   | 2.9 | 3         |
| 43 | Decay measurements of $^{43}K(\hat{I}^2)^{\hat{a}}$ $^{43}Ca$ by HRS and TAS. EPJ Web of Conferences, 2017, 146, 10013.  | 0.3 | 3         |
| 44 | Search for the Hoyle analogue state in $^{16}O$ . European Physical Journal A, 2021, 57, .   | 2.5 | 3         |
| 45 | Different manifestations of triaxial shapes of the positive and negative parity bands in $Os$ . Physical Review C, 2022, 105, .  | 2.9 | 3         |
| 46 | Magnetic rotational band in $116Sb$ . Nuclear Physics A, 2022, 1019, 122382.   | 1.5 | 2         |
| 47 | Probing Fundamental Interactions by an Electrostatic Ion Beam Trap. Acta Physica Polonica B, 2013, 44, 647.  | 0.8 | 1         |
| 48 | Publisher's Note: Shape evolution of the highly deformed $Kr75$ nucleus examined with the Doppler-shift attenuation method [Phys. Rev. C80, 047302 (2009)]. Physical Review C, 2009, 80, . | 2.9 | 0         |
| 49 | Band structures in $169Tm$ and the structures of $Tm$ isotopes around $N = 98$ . European Physical Journal A, 2019, 55, 1.   | 2.5 | 0         |
| 50 | HIGH SPIN STATES IN $139Pm$ . , 2008, , .  |     | 0         |