

# Ashok Kumar Jain

## List of Publications by Year in descending order

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36  
papers

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citations

840776

11  
h-index

642732

23  
g-index

39  
all docs

39  
docs citations

39  
times ranked

416  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Intrinsic states of deformed odd-A nuclei in the mass regions (151 ≤ A ≤ 193) and (A ≥ 221). Reviews of Modern Physics, 1990, 62, 393-509.   | 45.6 | 202       |
| 2  | Atlas of Nuclear Isomers. Nuclear Data Sheets, 2015, 128, 1-130.   | 2.2  | 66        |
| 3  | Odd tensor electric transitions in high-spin Sn-isomers and generalized seniority. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 122-125. | 4.1  | 25        |
| 4  | Magnetic rotation and shape mixing in Ce134. Physical Review C, 2004, 69, .  | 2.9  | 24        |
| 5  | Bandcrossing of magnetic rotation bands in Pr137. Physical Review C, 2007, 76, .   | 2.9  | 21        |
| 6  | Asymmetric behavior of the B(E2; 0+ → 2+) values in 104 ≤ A ≤ 130 Sn and generalized seniority. Nuclear Physics A, 2016, 952, 62-69.   | 1.5  | 21        |
| 7  | Evolution of collectivity and evidence of octupole correlations in $^{73}\text{Br}$ . Physical Review C, 2019, 100, .  | 2.9  | 19        |
| 8  | Shape coexistence and octupole correlations in $^{72}\text{Se}$ . Physical Review C, 2022, 105, .  | 2.9  | 15        |
| 9  | Evolution of nuclear structure in and around Z = 50 closed shell: Generalized seniority in Cd, Sn and Te isotopes. Nuclear Physics A, 2019, 992, 121619.                                 | 1.5  | 14        |
| 10 | Generalized seniority states and isomers in tin isotopes. Physica Scripta, 2017, 92, 074004.   | 2.5  | 13        |
| 11 | Shape changes at high spin in $^{78}\text{Kr}$ . European Physical Journal A, 2006, 27, 33-36.   | 2.5  | 12        |
| 12 | SEMICLASSICAL QUANTISATION OF PARTICLE-ROTOR MODEL AND $\hat{I}^2 = 2$ STAGGERING OF SUPERDEFORMED BANDS. International Journal of Modern Physics E, 2000, 09, 487-506.                  | 1.0  | 9         |
| 13 | Shape evolution of the highly deformed $^{75}\text{Kr}$ nucleus examined with the Doppler-shift attenuation method. Physical Review C, 2009, 80, .                                       | 2.9  | 9         |
| 14 | Rapid Communication: $\Delta v = 2$ seniority changing transitions in yrast $^{3^+}$ . Pramana - Journal of Physics, 2017, 89, 1.  | 1.8  | 9         |
| 15 | Parity doublet structures in doubly-odd $^{216}\text{Fr}$ . Physical Review C, 2018, 97, .   | 2.9  | 9         |
| 16 | Generalized seniority Schmidt model and the g-factors in semi-magic nuclei. Nuclear Physics A, 2019, 986, 232-244.   | 1.5  | 9         |
| 17 | Fusion near the Coulomb barrier for the synthesis of heavy and superheavy elements: A theoretical approach. European Physical Journal A, 2005, 26, 241-251.                              | 2.5  | 7         |
| 18 | Shape evolution in odd-A $^{137}\text{Pm}$ . European Physical Journal A, 2012, 48, 1.   | 2.5  | 7         |

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|----|---|-----|-----------|
| 19 | APPLICATION OF THE VARIABLE MOMENT OF INERTIA MODEL TO BANDS IN ODD-ODD NUCLEI. Modern Physics Letters A, 1990, 05, 2403-2406.  | 1.2 | 6         |
| 20 | Loss of collectivity in $^{79}\text{Rb}$ . European Physical Journal A, 2006, 28, 277-281.  | 2.5 | 6         |
| 21 | Goodness of isospin in neutron rich systems from the fission fragment distribution. Physica Scripta, 2017, 92, 094001.  | 2.5 | 6         |
| 22 | Generalized seniority isomers in and around $Z=82$ closed shell: A survey of Hg, Pb and Po isotopes. Nuclear Physics A, 2021, 1014, 122277.   | 1.5 | 5         |
| 23 | Level structure in the transitional nucleus $^{215}\text{Fr}$ . Physical Review C, 2022, 105, 024301.   | 2.9 | 5         |
| 24 | Description of multi-band structures in $^{154}\text{Gd}$ and $^{156}\text{Gd}$ on symmetry considerations. Zeitschrift für Physik A, 1985, 320, 645-648.                           | 1.4 | 4         |
| 25 | Role of isospin and its conservation in neutron-rich fission fragments. Physica Scripta, 2018, 93, 124008.  | 2.5 | 4         |
| 26 | Measurement of relative isotopic yield distribution of even-even fission fragments from $^{235}\text{U}$ following $\beta$ -ray spectroscopy. Physical Review C, 2021, 103, 034301. | 2.9 | 3         |
| 27 | Puzzle on isomeric configurations in and around $^{216}\text{Fr}$ closed shell. Physical Review C, 2022, 105, 024302.   | 2.9 | 3         |
| 28 | Magnetic rotation and chiral symmetry breaking. Pramana - Journal of Physics, 2001, 57, 611-622.  | 1.8 | 2         |
| 29 | Test of isospin conservation in thermal neutron-induced fission of $^{245}\text{Cm}$ . Pramana - Journal of Physics, 2019, 92, 1.   | 1.8 | 2         |
| 30 | Evolution of nuclear structure through isomerism in $^{216}\text{Fr}$ . Physical Review C, 2022, 105, 024303.   | 2.9 | 2         |
| 31 | Trace formula for level density of a spherical billiard. Pramana - Journal of Physics, 1999, 53, 243-251.   | 1.8 | 1         |
| 32 | Experimental study on isotope fractionation of evaporating water of different initial isotopic composition. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 975-978.   | 1.5 | 1         |
| 33 | Configuration dependent pairing from the effective decoupling picture. AIP Conference Proceedings, 1985, , .  | 0.4 | 0         |
| 34 | Application of the VMI model to rotational bands of odd-odd rare-earth nuclei. , 1991, , .  |     | 0         |
| 35 | Completeness of two-particle spectra of deformed nuclei. , 1991, , .  |     | 0         |
| 36 | Signature dependence and inversion in two quasi-particle rotational bands of even-even nuclei. , 1991, , .  |     | 0         |