

# Bijaya K Sahoo

## List of Publications by Year in descending order

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235  
papers

3,678  
citations

159358

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245  
all docs

245  
docs citations

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times ranked

1823  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Estimation of <sup>238</sup> U and <sup>232</sup> Th in soil and water of prominent fault region of Mizoram. Environmental Engineering Research, 2023, 28, 210106-0.  | 1.5 | 2         |
| 2  | Inhalation dose from exposure to radon, thoron and their progeny in indoors around a nuclear power generation facility in Uttar Pradesh, India. Indoor and Built Environment, 2022, 31, 316-328.  | 1.5 | 0         |
| 3  | <sup>222</sup> Rn measurements in drinking water and annual effective dose for the adult population around a coal-based and atomic power plant in Uttar Pradesh, India. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 715.   | 0.7 | 1         |
| 4  | Reply to "Comment on "New physics constraints from atomic parity violation in Cs133". Physical Review D, 2022, 105, .   | 1.6 | 1         |
| 5  | Precision measurement of the magnetic octupole moment in <sup>45</sup> Sc as a test for state-of-the-art atomic- and nuclear-structure theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136930.   | 1.5 | 9         |
| 6  | Nuclear charge radii of Na isotopes: Interplay of atomic and nuclear theory. Physical Review C, 2022, 105, .  | 1.1 | 6         |
| 7  | Determination of quadrupole polarizabilities of the excited states of alkali-metal atoms. Physical Review A, 2022, 105, .   | 1.0 | 2         |
| 8  | Radon concentration measurement and effective dose assessment in drinking groundwater for the adult population in the surrounding area of a thermal power plant. Journal of Water and Health, 2022, 20, 551-559.  | 1.1 | 4         |
| 9  | Assessing the Precision of Quantum Simulation of Many-Body Effects in Atomic Systems Using the Variational Quantum Eigensolver Algorithm. Quantum Reports, 2022, 4, 173-192.  | 0.6 | 0         |
| 10 | Polarization effects, shape resonances and bound states in low energy positron elastic scattering by Zinc and Cadmium vapours. Journal of Electron Spectroscopy and Related Phenomena, 2022, 257, 147186.   | 0.8 | 3         |
| 11 | Electric dipole moments and static dipole polarizabilities of alkali-metal"alkaline-earth-metal molecules: Nonrelativistic versus relativistic coupled-cluster-theory analysis. Physical Review A, 2022, 105, .   | 1.0 | 1         |
| 12 | Relativistic normal coupled-cluster theory analysis of second- and third-order electric polarizabilities of Zn $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ . Physical Review A, 2022, 105, . | 1.0 | 4         |
| 13 | Semiempirical Calculations on Low-Energy Electron Scattering by Zn and Cd Atoms. Atoms, 2022, 10, 69.   | 0.7 | 4         |
| 14 | Magnetic Sublevel Independent Magic and Tune-Out Wavelengths of the Alkaline-Earth Ions. Atoms, 2022, 10, 72.   | 0.7 | 1         |
| 15 | Dose estimation of radioactivity in groundwater of Srinagar City, Northwest Himalaya, employing fluorimetric and scintillation techniques. Environmental Geochemistry and Health, 2021, 43, 837-854.  | 1.8 | 16        |
| 16 | Radiative transition properties of singly charged magnesium, calcium, strontium and barium ions. Atomic Data and Nuclear Data Tables, 2021, 137, 101381.  | 0.9 | 12        |
| 17 | A novel method based on <sup>220</sup> Rn (thoron) exhalation rate of indoor surfaces for robust estimates of <sup>220</sup> Rn concentration and equilibrium factor to compute inhalation dose. Chemosphere, 2021, 267, 128908.  | 4.2 | 3         |
| 18 | Study of HgOH to Assess Its Suitability for Electron Electric Dipole Moment Searches. Atoms, 2021, 9, 7.  | 0.7 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | CP violating effects in $^{210}\text{Fr}$ and prospects for new physics beyond the Standard Model. Journal of High Energy Physics, 2021, 2021, 1.  | 1.6 | 14        |
| 20 | Benchmarking many-body approaches for the determination of isotope-shift constants: Application to the $\text{Li}, \text{Be}^+$ , and $\text{Ar}^{15+}$ isoelectronic systems. Physical Review A, 2021, 103, .   | 1.0 | 4         |
| 21 | Relativistic Coupled-Cluster Calculations of Isotope Shifts for the Low-Lying States of Ca II in the Finite-Field Approach. Atoms, 2021, 9, 26.  | 0.7 | 4         |
| 22 | Investigating properties of $\text{Cl}^{+}$ and $\text{Au}^{+}$ ions using relativistic many-body methods. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 115001.  | 0.6 | 1         |
| 23 | New physics constraints from atomic parity violation in $\text{Cs}^{133}$ . Physical Review D, 2021, 103, .  | 1.6 | 24        |
| 24 | Radon mapping in groundwater and indoor environs of Budgam, Jammu and Kashmir. Journal of Radioanalytical and Nuclear Chemistry, 2021, 329, 923-934.   | 0.7 | 6         |
| 25 | A Computational Fluid Dynamics code for aerosol and decay-product studies in indoor environments. Journal of Radioanalytical and Nuclear Chemistry, 2021, 330, 1347-1355.  | 0.7 | 5         |
| 26 | Tune-out and magic wavelengths, and electric quadrupole transition properties of the singly charged alkaline-earth metal ions. Atomic Data and Nuclear Data Tables, 2021, 140, 101422.   | 0.9 | 2         |
| 27 | Quantum sensing of the electron electric dipole moment using ultracold entangled Fr atoms. Quantum Science and Technology, 2021, 6, 044008.  | 2.6 | 5         |
| 28 | Electric dipole and quadrupole properties of the Cd atom for atomic-clock applications. Physical Review A, 2021, 103, .  | 1.0 | 6         |
| 29 | Charge radii of exotic potassium isotopes challenge nuclear theory and the magic character of $N=2$ . Nature Physics, 2021, 17, 439-443.   | 6.5 | 79        |
| 30 | Study of pre-seismic thoron anomaly using empirical mode decomposition based Hilbert–Huang transform at Indo-Burman subduction region. Journal of Radioanalytical and Nuclear Chemistry, 2021, 330, 1571.  | 0.7 | 4         |
| 31 | Relativistic-coupled-cluster-theory analysis of properties of Co-like ions. Physical Review A, 2021, 104, .  | 1.0 | 1         |
| 32 | Towards $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:m} \rangle$ -violation studies on superheavy molecules: Theoretical and experimental perspectives. Physical Review A, 2021, 104, . | 1.0 | 2         |
| 33 | Accurate determination of energy levels, hyperfine structure constants, lifetimes and dipole polarizabilities of triply ionized tin isotopes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 065002.   | 0.6 | 2         |
| 34 | Optical-lattice-based Cs active clock with a continual superradiant lasing signal. Physical Review A, 2020, 102, .   | 1.0 | 7         |
| 35 | A study on natural radioactivity and potential of $^{222}\text{Rn}$ , $^{220}\text{Rn}$ exhalation from Deccan table land of Kolhapur district, Maharashtra, India. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 1333-1341.  | 0.7 | 4         |
| 36 | An innovative technique of harvesting soil gas as a highly efficient source of $^{222}\text{Rn}$ for calibration applications in a walk-in type chamber: part-1. Scientific Reports, 2020, 10, 16547.  | 1.6 | 7         |



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|----|--|-----|-----------|
| 55 | Roles of electron correlation effects for the accurate determination of g <sub>J</sub> factors of low-lying states of Cd+113 and their applications to atomic clocks. Physical Review A, 2019, 100, .                            | 1.0 | 5         |
| 56 | A WALK-IN TYPE CALIBRATION CHAMBER FACILITY FOR 222Rn MEASURING DEVICES AND INTER-COMPARISON EXERCISES. Radiation Protection Dosimetry, 2019, 187, 466-481.  | 0.4 | 8         |
| 57 | Relativistic many-body theory of the electric dipole moment of Xe129 and its implications for probing new physics beyond the standard model. Physical Review A, 2019, 100, .   | 1.0 | 9         |
| 58 | High-precision determination of Lorentz-symmetry-violating parameters in $Ca^{40}$ and $Ca^{44}$ . Physical Review A, 2019, 99, .  | 1.0 | 4         |
| 59 | A study of seasonal variations of radon, thoron and their progeny levels in different types of dwellings in Faridabad district, Southern Haryana, India. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 841-857.   | 0.7 | 21        |
| 60 | Investigating ground-state fine-structure properties to explore suitability of boronlike $S_{11}$ and $K_{14}$ and galliumlike $S_{11}$ and $K_{14}$ . Physical Review A, 2019, 99, .  | 1.0 | 22        |
| 61 | Optical-lattice-based method for precise measurements of atomic parity violation. Physical Review A, 2019, 100, .  | 1.0 | 4         |
| 62 | A MODEL TO PREDICT 238U IN AQUIFER ROCK BASED ON 222Rn AND 226Ra MEASUREMENT IN GROUNDWATER SAMPLES: A CASE STUDY AT SOUTH BENGALURU CITY, KARNATAKA, INDIA. Radiation Protection Dosimetry, 2019, 185, 58-66.                   | 0.4 | 0         |
| 63 | Measurements of radon (222Rn) and thoron (220Rn) exhalations and their decay product concentrations at Indian Stations in Antarctica. Environmental Earth Sciences, 2019, 78, 1.   | 1.3 | 13        |
| 64 | Measurement of uranium and radon concentration in drinking water samples and assessment of ingestion dose to local population in Jalandhar district of Punjab, India. Indoor and Built Environment, 2019, 28, 611-618.           | 1.5 | 22        |
| 65 | Relativistic coupled-cluster-theory analysis of energies, hyperfine-structure constants, and dipole polarizabilities of Cd+. Physical Review A, 2018, 97, .  | 1.0 | 13        |
| 66 | Selected highly charged ions as prospective candidates for optical clocks with quality factors larger than $10^{10}$ and $10^{15}$ . Physical Review A, 2018, 97, .  | 1.0 | 21        |
| 67 | Unexpectedly Large Difference of the Electron Density at the Nucleus in the 4p 2P <sub>1/2,3/2</sub> Fine-Structure Doublet of Ca+. , 2018, , 1-19.  |     | 1         |
| 68 | Parity-Nonconserving Interaction-Induced Light Shifts in the $6D_{3/2}$ Transition of the Ultracold $^{210}\text{Fr}$ Atoms to Probe New Physics Beyond the Standard Model. , 2018, , 509-527.                                   |     | 0         |
| 69 | CONTRIBUTION OF THORON AND PROGENY TOWARDS INHALATION DOSE IN A THORIUM ABUNDANT BEACH ENVIRONMENT. Radiation Protection Dosimetry, 2018, 178, 405-413.  | 0.4 | 6         |
| 70 | Application of relativistic coupled-cluster theory to electron impact excitation of Mg+ in the plasma environment. European Physical Journal D, 2018, 72, 1.   | 0.6 | 18        |
| 71 | Diverse trends of electron correlation effects for properties with different radial and angular factors in an atomic system: a case study in Ca+. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 055101. | 0.6 | 9         |
| 72 | ASSESSMENT OF RADON IN SOIL AND WATER IN DIFFERENT REGIONS OF KOLHAPUR DISTRICT, MAHARASHTRA, INDIA. Radiation Protection Dosimetry, 2018, 181, 382-387.   | 0.4 | 6         |

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|----|---|-----|-----------|
| 73 | Estimation of indoor radon, thoron and their decay products <sup>TM</sup> concentrations along with annual inhalation dose in dwellings of Punjab, India. Indoor and Built Environment, 2018, 27, 380-389.  | 1.5 | 13        |
| 74 | Radiological variation of indoor radon and thoron levels by pinhole dosimeter in different seasons. Indoor and Built Environment, 2018, 27, 1001-1014.  | 1.5 | 4         |
| 75 | The role of relativistic many-body theory in probing new physics beyond the standard model via the electric dipole moments of diamagnetic atoms. Journal of Physics: Conference Series, 2018, 1041, 012014.   | 0.3 | 5         |
| 76 | High-Precision Multiphoton Ionization of Accelerated Laser-Ablated Species. Physical Review X, 2018, 8, .   | 2.8 | 17        |
| 77 | Dynamics of resonant energy transfer in one-dimensional chain of Rydberg atoms. European Physical Journal D, 2018, 72, 1.   | 0.6 | 1         |
| 78 | Relativistic Normal Coupled-Cluster Theory for Accurate Determination of Electric Dipole Moments of Atoms: First Application to the Hg199 Atom. Physical Review Letters, 2018, 120, 203001.   | 2.9 | 35        |
| 79 | Electric dipole polarizability of Xe129 using the relativistic coupled-cluster and the normal coupled-cluster methods. Physical Review A, 2018, 97, .   | 1.0 | 6         |
| 80 | Dipole polarizability calculation of the Cd atom: Inconsistency with experiment. Physical Review A, 2018, 98, .   | 1.0 | 9         |
| 81 | Higher-component quadrupole polarizabilities: Estimations for the clock states of the alkaline-earth-metal ions. Physical Review A, 2018, 98, .   | 1.0 | 3         |
| 82 | A comprehensive study of radon levels and associated radiation doses in Himalayan groundwater. Acta Geophysica, 2018, 66, 1223-1231.  | 1.0 | 15        |
| 83 | Improved limits on the hadronic and semihadronic $\langle \text{mml:math display="inline"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle C \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle P \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ violating parameters and role of a dark force carrier in the electric dipole moment of $\langle \text{mml:math display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle$ | 1.6 | 29        |
| 84 | Relativistic coupled-cluster analysis of parity nonconserving amplitudes and related properties of the $6s^2 S_{1/2} \hat{a}^{\prime} 5d^2 D_{3/2}; 5/2$ transitions in $^{133}\text{Cs}$ . Molecular Physics, 2017, 115, 2765-2774.  | 0.8 | 12        |
| 85 | Parity-nonconserving interaction-induced light shifts in the $7S_{1/2}$ $7S_{1/2}$ . Applied Physics B: Lasers and Optics, 2017, 123, 1.  | 1.1 | 7         |
| 86 | Probing exotic phenomena at the interface of nuclear and particle physics with the electric dipole moments of diamagnetic atoms: A unique window to hadronic and semi-leptonic CP violation. European Physical Journal A, 2017, 53, 1.  | 1.0 | 145       |
| 87 | Unexpectedly large difference of the electron density at the nucleus in the $4p_{1/2}, 3/2}$ fine-structure doublet of $\text{Ca}^{4+}$ . Applied Physics B: Lasers and Optics, 2017, 123, 1.   | 1.1 | 29        |
| 88 | Annexing magic and tune-out wavelengths to the clock transitions of the alkaline-earth-metal ions. Physical Review A, 2017, 95, .   | 1.0 | 9         |
| 89 | Quantum phases of constrained dipolar bosons in coupled one-dimensional optical lattices. Physical Review A, 2017, 96, .  | 1.0 | 12        |
| 90 | Comparison of thoron ( $^{220}\text{Rn}$ ) content and gamma radiation level in high background radiation area of Kollam district in Kerala, India. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 177-185.   | 0.7 | 3         |

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|-----|---|-----|-----------|
| 91  | A study on seasonal variability of $^{222}\text{Rn}$ – $^{220}\text{Rn}$ parameters in dwellings around a thermal power plant, India. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 39-48.   | 0.7 | 2         |
| 92  | Accurate determination of black-body radiation shift, magic and tune-out wavelengths for the $6S_{1/2} \rightarrow 5D_{3/2}$ clock transition in $\text{Yb}^{+}$ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 205201. | 0.6 | 18        |
| 93  | Relativistic coupled-cluster-theory analysis of unusually large correlation effects in the determination of gJ factors in $\text{Ca}^{+}$ . Physical Review A, 2017, 96, .  | 1.0 | 7         |
| 94  | Estimation of the blackbody-radiation shift due to the Stark effect for the microwave $\text{Cd}^{+113}$ ion clock. Physical Review A, 2017, 96, .  | 1.0 | 8         |
| 95  | Significance of distinct electron-correlation effects in determining the ( P,T )-odd electric dipole moment of $\text{Yb}^{171}$ . Physical Review A, 2017, 95, .   | 1.0 | 6         |
| 96  | Relativistic Calculations of Atomic Clock. , 2017, , 611-655.   |     | 1         |
| 97  | Polarizability and magic wavelength of $\text{Yb}^{+}$ clock transition $2S_{1/2} \rightarrow 2D_{3/2}$ . , 2017, , .   |     | 1         |
| 98  | A study on uranium and radon levels in drinking water sources of a mineralized zone of Himachal Pradesh, India. Journal of Radioanalytical and Nuclear Chemistry, 2016, 309, 541.   | 0.7 | 11        |
| 99  | $\sqrt{10} + \sqrt{51}$   | 1.0 | 22        |
| 100 | A study of thoron exhalation from monazite-rich beach sands of High Background Radiation Areas of Kerala and Odisha, India. Environmental Earth Sciences, 2016, 75, 1.  | 1.3 | 12        |
| 101 | Built-in-polarization effect on relaxation time and mean free path of phonons in $\text{Al}_x\text{Ga}_{1-x}\text{N}/\text{GaN}$ heterostructure. Modern Physics Letters B, 2016, 30, 1650097.  | 1.0 | 2         |
| 102 | III-V nitrides and performance of graphene on copper plasmonic biosensor. Superlattices and Microstructures, 2016, 93, 226-233.   | 1.4 | 15        |
| 103 | MEASUREMENT OF RADON CONCENTRATION IN DWELLINGS IN THE REGION OF HIGHEST LUNG CANCER INCIDENCE IN INDIA. Radiation Protection Dosimetry, 2016, 171, 192-195.  | 0.4 | 6         |
| 104 | Comparing magic wavelengths for the $6s_{1/2} - 6p_{1/2}$ transitions of Cs using circularly and linearly polarized light. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 145005.   | 0.6 | 8         |
| 105 | An optimized ion trap geometry to measure quadrupole shifts of $^{171}\text{Yb}^{+}$ clocks. Chinese Physics B, 2016, 25, 113703.   | 0.7 | 11        |
| 106 | Dispersion coefficients for the interaction of Cs atom with different material media. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3366-3372.  | 0.9 | 2         |
| 107 | Highly charged $\text{W}^{13+}$ , $\text{Ar}^{16+}$ , and $\text{Pt}^{17+}$ ions as promising optical clock candidates for probing variations of the fine-structure constant. Physical Review A, 2016, 94, .                                      | 1.0 | 18        |
| 108 | Enhanced spin-dependent parity-nonconservation effect in the $7s$ state of $\text{Cs}$ . Physical Review A, 2016, 93, .   | 1.0 | 17        |

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|-----|---|-----|-----------|
| 109 | Plasma screening effects on the electronic structure of multiply charged Al ions using Debye and ion-sphere models. <i>Physical Review A</i> , 2016, 93, .  | 1.0 | 41        |
| 110 | Magnetic-sublevel-independent magic wavelengths: Application to Rb and Cs atoms. <i>Physical Review A</i> , 2016, 93, .   | 1.0 | 12        |
| 111 | Conforming the measured lifetimes of the $5d^2$ states in Cs with theory. <i>Physical Review A</i> , 2016, 93, .  | 1.0 | 25        |
| 112 | Determination of magic wavelengths for the $7s^2$ $^3P_{3/2,1/2}$ transitions in Fr. <i>Physical Review A</i> , 2016, 94, .   | 1.0 | 11        |
| 113 | Theoretical study of built-in-polarization effect on relaxation time and mean free path of phonons in $\text{Al}_x\text{Ga}_{1-x}\text{N}$ alloy. <i>Bulletin of Materials Science</i> , 2016, 39, 1835-1841.             | 0.8 | 0         |
| 114 | Plasma-screening effects in the astrophysically relevant He-like and Li-like Mg and Fe ions*. <i>European Physical Journal D</i> , 2016, 70, 1.   | 0.6 | 15        |
| 115 | Effect of built-in-polarization field on relaxation time and mean free path of phonons in $\text{In}_x\text{Ga}_{1-x}\text{N}/\text{GaN}$ quantum well. <i>Indian Journal of Physics</i> , 2016, 90, 991-997.             | 0.9 | 8         |
| 116 | STUDY OF RADON, THORON EXHALATION AND NATURAL RADIOACTIVITY IN COAL AND FLY ASH SAMPLES OF KOTA SUPER THERMAL POWER PLANT, RAJASTHAN, INDIA. <i>Radiation Protection Dosimetry</i> , 2016, 171, 196-199.                  | 0.4 | 12        |
| 117 | STUDY OF RADON FLUX FROM SOIL IN BUDHAKEDAR REGION USING SRM. <i>Radiation Protection Dosimetry</i> , 2016, 171, 267-270.   | 0.4 | 8         |
| 118 | EMISSION OF SOIL GAS RADON CONCENTRATION AROUND MAIN CENTRAL THRUST IN UKHIMATH (RUDRAPRAYAG) REGION OF GARHWAL HIMALAYA. <i>Radiation Protection Dosimetry</i> , 2016, 171, 243-247.                                     | 0.4 | 6         |
| 119 | Study of variation of $^{222}\text{Rn}$ and $^{220}\text{Rn}$ and their progeny concentration in dwellings using single entry pin hole-based diffusion chambers. <i>Indoor and Built Environment</i> , 2016, 25, 390-396. | 1.5 | 1         |
| 120 | A follow-up study on indoor $^{222}\text{Rn}$ , $^{220}\text{Rn}$ their decay product concentrations in a mineralised zone of Himachal Pradesh, India. <i>Radiation Protection Dosimetry</i> , 2016, 168, 553-560.        | 0.4 | 16        |
| 121 | Magic wavelengths in the alkaline-earth-metal ions. <i>Physical Review A</i> , 2015, 92, .  | 1.0 | 25        |
| 122 | Dispersion coefficients for the interactions of the alkali-metal and alkaline-earth-metal ions and inert-gas atoms with a graphene layer. <i>Physical Review A</i> , 2015, 92, .  | 1.0 | 10        |
| 123 | Appraising nuclear-octupole-moment contributions to the hyperfine structures in $\text{Fr}^{211}$ . <i>Physical Review A</i> , 2015, 92, .  | 1.0 | 7         |
| 124 | Theoretical studies of the long lifetimes of the $6d^2$ states in Fr: Implications for parity-nonconservation. <i>Physical Review A</i> , 2015, 92, .   | 1.0 | 21        |
| 125 | The effect of built in polarization on thermal conductivity of AlN. <i>AIP Conference Proceedings</i> , 2015, , .   | 0.3 | 0         |
| 126 | Effect of built-in-polarization field on intrinsic and extrinsic thermal conductivity of InN. <i>Indian Journal of Physics</i> , 2015, 89, 1123-1131.   | 0.9 | 0         |



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|-----|--|-----|-----------|
| 127 | Relativistic calculations of radiative properties and fine structure constant varying sensitivity coefficients in the astrophysically relevant Zn <sup>II</sup> , Si <sup>IV</sup> and Ti <sup>IV</sup> ions. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3812-3823. | 1.6 | 7         |
| 128 | Properties of alkali-metal atoms and alkaline-earth-metal ions for an accurate estimate of their long-range interactions. Physical Review A, 2015, 91, .   | 1.0 | 30        |
| 129 | Radiative properties of few F- and Cl- like alkali and alkaline-earth metal ions. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2546-2552.   | 1.6 | 3         |
| 130 | Electric dipole moment of $\langle \text{math} \text{Ra} \text{ due to} \text{math} \text{P} \text{ and} \text{math} \text{T} \text{ violating weak} \text{ interactions. Physical Review A, 2015, 92, .}$   | 1.0 | 21        |
| 131 | A relativistic equation-of-motion coupled-cluster investigation of the trends of single and double ionization potentials in the He and Be isoelectronic systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 115009.  | 0.6 | 5         |
| 132 | Correlation trends in the hyperfine structures of Fr <sup>210,212</sup> . Physical Review A, 2015, 91, .   | 1.0 | 38        |
| 133 | Combined experimental and theoretical probe of the lifetime of the 3d <sup>2</sup> D <sub>5/2</sub> state in <sup>40</sup> Ca <sup>+</sup> . Physical Review A, 2015, 91, .  | 1.0 | 11        |
| 134 | Forbidden transition properties in the ground-state configurations of singly ionized noble gas atoms for stellar and interstellar media. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1012-1016.  | 1.6 | 4         |
| 135 | Macroscopic Polarization Effect on Bowing Constant of Thermal Parameters of In <sub>x</sub> Ga <sup>1-x</sup> N. Journal of Electronic Materials, 2015, 44, 1035-1043.   | 1.0 | 12        |
| 136 | A study of indoor radon, thoron and their progeny measurement in Tosham region Haryana, India. Journal of Radiation Research and Applied Sciences, 2015, 8, 226-233.   | 0.7 | 55        |
| 137 | Rigorous limits on the hadronic and semileptonic CP-violating coupling constants from the electric dipole moment of <sup>199</sup> Hg. Physical Review A, 2015, 91, .  | 1.0 | 44        |
| 138 | Built-in-polarization field effect on intrinsic and extrinsic thermal conductivities of AlN/GaN/AlN quantum well. International Journal of Modern Physics B, 2015, 29, 1550149.  | 1.0 | 2         |
| 139 | Macroscopic polarization and bowing constant of Al <sub>x</sub> Ga <sup>1-x</sup> N. Physica B: Condensed Matter, 2015, 456, 66-71.  | 1.3 | 7         |
| 140 | Relativistic Calculations of Atomic Clock. , 2015, , 1-44.   |     | 1         |
| 141 | Relativistic equation-of-motion coupled-cluster method: Application to closed-shell atomic systems. Physical Review A, 2014, 89, .   | 1.0 | 27        |
| 142 | Relativistic many-body analysis of the electric dipole moment of <sup>223</sup> Rn. Physical Review A, 2014, 90, .   | 1.0 | 8         |
| 143 | Quadrupole shifts for the <sup>171</sup> Yb ion clocks: Experiments versus theories. Physical Review A, 2014, 90, .  | 1.0 | 19        |
| 144 | $\{C\}_3$ coefficients for the alkali atoms interacting with a graphene layer and carbon nanotube. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 155002.  | 0.6 | 26        |

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|-----|---|-----|-----------|
| 145 | Implementation and application of the relativistic equation-of-motion coupled-cluster method for the excited states of closed-shell atomic systems. <i>Physical Review A</i> , 2014, 89, .  | 1.0 | 13        |
| 146 | Ab initiodetermination of theP- andT-violating coupling constants in atomic Xe by the relativistic-coupled-cluster method. <i>Physical Review A</i> , 2014, 89, .   | 1.0 | 22        |
| 147 | van der Waals coefficients for alkali-metal atoms in material media. <i>Physical Review A</i> , 2014, 89, .   | 1.0 | 10        |
| 148 | Emending thermal dispersion interactions of Li, Na, K, and Rb alkali-metal atoms with graphene in the Dirac model. <i>Physical Review B</i> , 2014, 90, .   | 1.1 | 37        |
| 149 | Spectral properties of a few F-like ions. <i>Astronomy and Astrophysics</i> , 2014, 563, A25.   | 2.1 | 12        |
| 150 | Thoron interference in radon exhalation rate measured by solid state nuclear track detector based can technique. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 1417-1420.                                    | 0.7 | 33        |
| 151 | Correlation trends in the polarizabilities of atoms and ions in the boron, carbon, and zinc homologous sequences of elements. <i>Physical Review A</i> , 2014, 90, .  | 1.0 | 25        |
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