

Bijaya K Sahoo

List of Publications by Year in descending order

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235
papers

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citations

159358

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docs citations

245
times ranked

1823
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Estimation of radon emanation factor in Indian building materials. Radiation Measurements, 2007, 42, 1422-1425.	0.7	97
3	Atomic parity nonconservation in Ra . Physical Review A, 2008, 78, .	1.0	88
4	Charge radii of exotic potassium isotopes challenge nuclear theory and the magic character of ^{32}Ca . Nature Physics, 2021, 17, 439-443.	6.5	79
5	A model to predict radon exhalation from walls to indoor air based on the exhalation from building material samples. Science of the Total Environment, 2011, 409, 2635-2641.	3.9	72
6	Two dimensional diffusion theory of trace gas emission into soil chambers for flux measurements. Agricultural and Forest Meteorology, 2010, 150, 1211-1224.	1.9	60
7	Intrinsic Electric Dipole Moments of Paramagnetic Atoms: Rubidium and Cesium. Physical Review Letters, 2008, 101, 033002.	2.9	58
8	Relativistic Coupled-Cluster Theory of Atomic Parity Nonconservation: Application to $Ba+^{137}$. Physical Review Letters, 2006, 96, 163003.	2.9	57
9	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
10	Relativistic coupled-cluster studies of dipole polarizabilities in closed-shell atoms. Physical Review A, 2008, 77, .	1.0	52
11	Relativistic Coupled Cluster (RCC) Computation of the Electric Dipole Moment Enhancement Factor of Francium Due to the Violation of Time Reversal Symmetry. Journal of Physical Chemistry A, 2009, 113, 12549-12557.	1.1	51
12	Magnetic dipole hyperfine interactions in $^{137}Ba+$ and the accuracies of the neutral weak interaction matrix elements. Physical Review A, 2003, 68, .	1.0	50
13	Lifetimes of the metastable $D_{3/2}^{\pm 2,5} \rightarrow 2^2$ states in Ca^+, Sr^+ , and Ba^+ . Physical Review A, 2006, 74, .	1.0	49
14	State-insensitive trapping of Rb atoms: Linearly versus circularly polarized light. Physical Review A, 2012, 86, .	1.0	47
15	Investigations of Ra to test possibilities for new optical-frequency standards. Physical Review A, 2007, 76, .	1.0	46
16	Rigorous limits on the hadronic and semileptonic CP-violating coupling constants from the electric dipole moment of Hg^{199} . Physical Review A, 2015, 91, .	1.0	44
17	Ab initio determination of the lifetime of the $6^2P_{3/2}$ state for $^{207}Pb+$ by relativistic many-body theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 3409-3418.	0.6	42
18	Relativistic general-order coupled-cluster method for high-precision calculations: Application to the Al atomic clock. Physical Review A, 2011, 83, .	1.0	41

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19	Plasma screening effects on the electronic structure of multiply charged Al ions using Debye and ion-sphere models. Physical Review A, 2016, 93, .	1.0	41
20	Relativistic coupled-cluster studies of ionization potentials, lifetimes, and polarizabilities in singly ionized calcium. Physical Review A, 2009, 79, .	1.0	39
21	Comparative studies of dipole polarizabilities in Sr and Ba ions. Physical Review A, 2010, 82, .	1.0	38
22	Correlation trends in the ground-state static electric dipole polarizabilities of closed-shell atoms and ions. Physical Review A, 2013, 88, .	1.0	38
23	Correlation trends in the hyperfine structures of $\text{Fr}^{210,212}$. Physical Review A, 2015, 91, .	1.0	38
24	Emending thermal dispersion interactions of Li, Na, K, and Rb alkali-metal atoms with graphene in the Dirac model. Physical Review B, 2014, 90, .	1.1	37
25	Multipolar blackbody radiation shifts for single-ion clocks. Physical Review A, 2012, 85, .	1.0	36
26	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
27	Laser spectroscopy of trapped short-lived Ra ions. Physical Review A, 2010, 82, .	1.0	34
28	Thoron interference in radon exhalation rate measured by solid state nuclear track detector based can technique. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 1417-1420.	0.7	33
29	Electric Quadrupole Moments of the D States of Alkaline-Earth-Metal Ions. Physical Review Letters, 2006, 96, 193001.	2.9	31
30	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
31	Improved limits on the hadronic and semihadronic C_P violating parameters and role of a dark force carrier in the electric dipole moment of ^{133}Ba . Physical Review Letters, 2017, 118, 171801.	1.6	29
32	Unexpectedly large difference of the electron density at the nucleus in the $4p_{1/2,3/2}$ fine-structure doublet of Ca^{40} . Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	29
33	The macroscopic polarization effect on thermal conductivity of binary nitrides. Journal of Applied Physics, 2013, 114, 163501.	1.1	28
34	Relativistic coupled-cluster theory of quadrupole moments and hyperfine structure constants of d states in Ba^+ . Physical Review A, 2006, 74, .	1.0	27
35	Powder sandwich technique: A novel method for determining the thoron emanation potential of powders bearing high ^{224}Ra content. Radiation Measurements, 2013, 48, 82-87.	0.7	27
36	Relativistic equation-of-motion coupled-cluster method: Application to closed-shell atomic systems. Physical Review A, 2014, 89, .	1.0	27

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37	Nuclear quadrupole moment of C^{43} hyperfine structure studies of its singly charged ion. Physical Review A, 2009, 80, .	1.0	26
38	Parity nonconservation in ytterbium ion. Physical Review A, 2011, 84, .	1.0	26
39	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
40	Enhanced role of electron correlation in the hyperfine interactions in $D5^{\wedge}22$ states in alkaline-earth-metal ions. Physical Review A, 2007, 75, .	1.0	25
41	An ab initio relativistic coupled-cluster theory of dipole and quadrupole polarizabilities: Applications to a few alkali atoms and alkaline earth ions. Chemical Physics Letters, 2007, 448, 144-149.	1.2	25
42	Light shifts and electric dipole matrix elements in Ba^{+} and Ra^{+} ions. Physical Review A, 2009, 79, .	1.0	25
43	Correlation trends in the polarizabilities of atoms and ions in the boron, carbon, and zinc homologous sequences of elements. Physical Review A, 2014, 90, .	1.0	25
44	Magic wavelengths in the alkaline-earth-metal ions. Physical Review A, 2015, 92, .	1.0	25
45	Conforming the measured lifetimes of the $5d$ states in Cs with theory. Physical Review A, 2016, 93, .	1.0	25
46	Reappraisal of the Electric Dipole Moment Enhancement Factor for Thallium. Physical Review Letters, 2011, 106, 200403.	2.9	24
47	Development of a relativistic coupled-cluster method for one-electron detachment theory: Application to Mn^{ix} , Fe^{x} , Co^{xi} , and Ni^{xii} ions. Physical Review A, 2013, 88, .	1.0	24
48	New physics constraints from atomic parity violation in $Cs133$. Physical Review D, 2021, 103, .	1.6	24
49	Comparative studies of the magnetic dipole and electric quadrupole hyperfine constants for the ground and low lying excited states of $25Mg^{+}$. European Physical Journal D, 2005, 32, 25-31.	0.6	23
50	Thoron (^{220}Rn) in the indoor environment and work places. Indian Journal of Physics, 2009, 83, 1079-1098.	0.9	23
51	Charge radii of radium isotopes. Physical Review C, 2012, 86, .	1.1	23
52	Magic wavelengths for trapping the alkali-metal atoms with circularly polarized light. Physical Review A, 2013, 87, .	1.0	23
53	Ab initio determination of the P- and T-violating coupling constants in atomic Xe by the relativistic coupled-cluster method. Physical Review A, 2014, 89, .	1.0	22
54	Scrutinizing Al-like V^{10+} and Cr-like Cr^{11+} ions. Physical Review A, 2014, 89, .	1.0	22

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55	Investigating ground-state fine-structure properties to explore suitability of boronlike $S_{11}K_{14}$ ions as promising optical clock candidates. Physical Review A, 2019, 99, .	1.0	22
56	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
57	Parity nonconservation in odd isotopes of single trapped atomic ions. Physical Review A, 2011, 83, .	1.0	21
58	Theoretical studies of the long lifetimes of the $6d$ states in Fr: implications for parity-nonconservation. Physical Review A, 2015, 92, .	1.0	21
59	Selected highly charged ions as prospective candidates for optical clocks with quality factors larger than $225R_{\infty}P$ and T -violating weak interactions. Physical Review A, 2018, 97, .	1.0	21
60	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
61	Analytic response relativistic coupled-cluster theory: the first application to indium isotope shifts. New Journal of Physics, 2020, 22, 012001.	1.2	21
62	Relativistic coupled cluster calculations of the energies for rubidium and cesium atoms. Journal of Chemical Physics, 2003, 119, 10633-10637.	1.2	20
63	Theoretical studies of the $6s_{1/2} \rightarrow 5d_{3/2}$ parity-nonconserving transition amplitude in Ba^{+} and associated properties. Physical Review A, 2007, 75, .	1.0	20
64	Influence of correlation effects on the magnetic dipole hyperfine interaction in the low-lying states of Ca^{+} . Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1899-1906.	0.6	19
65	relativistic many-body calculation of hyperfine splittings of C^{13} . Physical Review A, 2008, 77, .	1.0	19
66	Transition properties of a potassium atom. Physical Review A, 2012, 86, .	1.0	19
67	Effect of piezoelectric polarization on phonon group velocity in nitride wurtzites. Journal of Materials Science, 2012, 47, 2624-2629.	1.7	19
68	Quadrupole shifts for the Yb^{+171} ion clocks: Experiments versus theories. Physical Review A, 2014, 90, .	1.0	19
69	Electric dipole transition amplitudes for $^{207}Pb^{+}$. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 355-363.	0.6	18
70	Highly charged W^{13+} , Ir^{16+} , and Pt^{17+} ions as promising optical clock candidates for probing variations of the fine-structure constant. Physical Review A, 2016, 94, .	1.0	18
71	Accurate determination of black-body radiation shift, magic and tune-out wavelengths for the $6S_{1/2} \rightarrow 5D_{3/2}$ clock transition in Yb^{+} . Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 205201.	0.6	18

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73	Application of relativistic coupled-cluster theory to electron impact excitation of Mg ⁺ in the plasma environment. <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	18
74	Atomic parity violation in a single trapped radium ion This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at <i>École de Physique, les Houches, France</i> , 30 May – 4 June, 2010.. <i>Canadian Journal of Physics</i> , 2011, 89, 65-68.	0.4	17
75	$\langle S \rangle$ of ^{17}O in ^{17}O and $^{17}\text{O}^+$ ions. <i>Physical Review A</i> , 2016, 93.	1.0	17
76	High-Precision Multiphoton Ionization of Accelerated Laser-Ablated Species. <i>Physical Review X</i> , 2018, 8, .	2.8	17
77	Application of relativistic coupled-cluster theory to heavy atomic systems with strongly interacting configurations: Hyperfine interactions in Pb ⁺ 207. <i>Physical Review A</i> , 2005, 72, .	1.0	16
78	Relativistic unitary coupled cluster theory and applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 065001.	0.6	16
79	Ab initio determination of polarizabilities and van der Waals coefficients of Li atoms using the relativistic coupled-cluster method. <i>Physical Review A</i> , 2008, 78, .	1.0	16
80	Spectroscopy on a single trapped $^{137}\text{Ba}^+$ ion for nuclear magnetic octupole moment determination. <i>Optics Express</i> , 2012, 20, 21379.	1.7	16
81	Indoor radon and thoron levels in Neendakara and Chavara regions of Southern Coastal Kerala, India. <i>Radiation Protection Dosimetry</i> , 2012, 150, 385-390.	0.4	16
82	Relativistic equation-of-motion coupled-cluster method for the double-ionization potentials of closed-shell atoms. <i>Physical Review A</i> , 2014, 90, .	1.0	16
83	A follow-up study on indoor ^{222}Rn , ^{220}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
84	Dose estimation of radioactivity in groundwater of Srinagar City, Northwest Himalaya, employing fluorimetric and scintillation techniques. <i>Environmental Geochemistry and Health</i> , 2021, 43, 837-854.	1.8	16
85	III-V nitrides and performance of graphene on copper plasmonic biosensor. <i>Superlattices and Microstructures</i> , 2016, 93, 226-233.	1.4	15
86	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
87	A comprehensive study of radon levels and associated radiation doses in Himalayan groundwater. <i>Acta Geophysica</i> , 2018, 66, 1223-1231.	1.0	15
88	Theoretical studies of the atomic transitions in boron-like ions: Mg VIII, Si X and S XII. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 3153-3162.	0.6	14
89	Atomic electric-dipole moments from Higgs-boson-mediated interactions. <i>Physical Review A</i> , 2008, 78, .	1.0	14
90	Quantification of radon/thoron exhalation rates of soil samples collected from district Faridabad of Southern Haryana, India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 326, 831-843.	0.7	14

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109	Laser spectroscopy of indium Rydberg atom bunches by electric field ionization. Scientific Reports, 2020, 10, 12306.	1.6	12
110	Monitoring geothermal springs and groundwater of Pir Panjal, Jammu and Kashmir, for radon contamination. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 1915-1923.	0.7	12
111	Radiative transition properties of singly charged magnesium, calcium, strontium and barium ions. Atomic Data and Nuclear Data Tables, 2021, 137, 101381.	0.9	12
112	Ab initio studies of electron correlation effects in the atomic parity violating amplitudes in Cs and Fr. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 085005.	0.6	11
113	Experimental determination of the nuclear magnetic octupole moment of $^{137}\text{Ba}^+$ ion. Physical Review A, 2013, 88, .	1.0	11
114	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
115	Combined experimental and theoretical probe of the lifetime of the $3d^2D_{5/2}$ state in $^{40}\text{Ca}^+$. Physical Review A, 2015, 91, .	1.0	11
116	An optimized ion trap geometry to measure quadrupole shifts of $^{171}\text{Yb}^+$ clocks. Chinese Physics B, 2016, 25, 113703.	0.7	11
117	Determination of magic wavelengths for the $7s^1S_1/2 \rightarrow 7p^1P_3/2, 1/2$ transitions in Fr. Physical Review A, 2016, 94, .	1.0	11
118	Ba ⁺ quadrupole polarizabilities: Theory versus experiment. Physical Review A, 2012, 86, .	1.0	10
119	van der Waals coefficients for alkali-metal atoms in material media. Physical Review A, 2014, 89, .	1.0	10
120	Dispersion coefficients for the interactions of the alkali-metal and alkaline-earth-metal ions and inert-gas atoms with a graphene layer. Physical Review A, 2015, 92, .	1.0	10
121	Determination of the nuclear quadrupole moment of ^{87}Sr . Physical Review A, 2006, 73, .	1.0	9
122	Atomic parity violation in a single trapped radium ion. Hyperfine Interactions, 2011, 199, 9-19.	0.2	9
123	Sc III spectral properties of astrophysical interest. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 225701.	0.6	9
124	Reexamination of nuclear quadrupole moments in ^{39}K and ^{41}K isotopes. Physical Review A, 2012, 86, .	1.0	9
125	Annexing magic and tune-out wavelengths to the clock transitions of the alkaline-earth-metal ions. Physical Review A, 2017, 95, .	1.0	9
126	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

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127	Dipole polarizability calculation of the Cd atom: Inconsistency with experiment. <i>Physical Review A</i> , 2018, 98, .	1.0	9
128	Comparison of results from indoor radon measurements using active and passive methods with those from mathematical modeling. <i>Radiation and Environmental Biophysics</i> , 2019, 58, 345-352.	0.6	9
129	Relativistic many-body theory of the electric dipole moment of Xe129 and its implications for probing new physics beyond the standard model. <i>Physical Review A</i> , 2019, 100, .	1.0	9
130	Precision measurement of the magnetic octupole moment in 45Sc as a test for state-of-the-art atomic- and nuclear-structure theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 827, 136930.	1.5	9
131	Theoretical estimation of lifetimes of the lowest metastable states in Sc III and Y III. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 055702.	0.6	8
132	Relativistic many-body analysis of the electric dipole moment of Rn223. <i>Physical Review A</i> , 2014, 90, .	1.0	8
133	Comparing magic wavelengths for the $6s^2\ ^1S_{1/2}-6p^2\ ^2P_{1/2}$ transitions of Cs using circularly and linearly polarized light. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 145005.	0.6	8
134	Effect of built-in-polarization field on relaxation time and mean free path of phonons in In _x Ga _{1-x} N/GaN quantum well. <i>Indian Journal of Physics</i> , 2016, 90, 991-997.	0.9	8
135	STUDY OF RADON FLUX FROM SOIL IN BUDHAKEDAR REGION USING SRM. <i>Radiation Protection Dosimetry</i> , 2016, 171, 267-270.	0.4	8
136	Estimation of the blackbody-radiation shift due to the Stark effect for the microwave Cd+113 ion clock. <i>Physical Review A</i> , 2017, 96, .	1.0	8
137	A study on the anomalous behaviour of Radon in different depths of soil at a tectonic fault and its comparison with time-series data at a distant continuous monitoring station. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	8
138	A WALK-IN TYPE CALIBRATION CHAMBER FACILITY FOR 222Rn MEASURING DEVICES AND INTER-COMPARISON EXERCISES. <i>Radiation Protection Dosimetry</i> , 2019, 187, 466-481.	0.4	8
139	ASSESSMENT OF RADON AND THORON EXHALATION FROM SOILS AND DISSOLVED RADON IN GROUND WATER IN THE VICINITY OF ELEVATED GRANITIC HILL, CHIKKABALLAPUR DISTRICT, KARNATAKA, INDIA. <i>Radiation Protection Dosimetry</i> , 2020, 190, 185-192.	0.4	8
140	Search for a permanent electric-dipole moment using atomic indium. <i>Physical Review A</i> , 2011, 84, .	1.0	7
141	Appraising nuclear-octupole-moment contributions to the hyperfine structures in Fr211. <i>Physical Review A</i> , 2015, 92, .	1.0	7
142	Relativistic calculations of radiative properties and fine structure constant varying sensitivity coefficients in the astrophysically relevant Zn ⁱⁱ , Si ^{iv} and Ti ^{iv} ions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 3812-3823.	1.6	7
143	Macroscopic polarization and bowing constant of Al _x Ga _{1-x} N. <i>Physica B: Condensed Matter</i> , 2015, 456, 66-71.	1.3	7
144	Parity-nonconserving interaction-induced light shifts in the $7S_{1/2}$ $7S_{1/2}$. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	7

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145	Relativistic coupled-cluster-theory analysis of unusually large correlation effects in the determination of g_j factors in Ca^+ . <i>Physical Review A</i> , 2017, 96, .	1.0	7
146	Optical-lattice-based Cs active clock with a continual superradiant lasing signal. <i>Physical Review A</i> , 2020, 102, .	1.0	7
147	An innovative technique of harvesting soil gas as a highly efficient source of ^{222}Rn for calibration applications in a walk-in type chamber: part-1. <i>Scientific Reports</i> , 2020, 10, 16547.	1.6	7
148	A coupled-cluster approach to polarizabilities: Computational aspects. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2007, 7, 57-74.	0.1	6
149	Phase-separated charge-density-wave phase in the two-species extended Bose-Hubbard model. <i>Physical Review A</i> , 2008, 78, .	1.0	6
150	MEASUREMENT OF RADON CONCENTRATION IN DWELLINGS IN THE REGION OF HIGHEST LUNG CANCER INCIDENCE IN INDIA. <i>Radiation Protection Dosimetry</i> , 2016, 171, 192-195.	0.4	6
151	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
152	Significance of distinct electron-correlation effects in determining the (P,T) -odd electric dipole moment of Yb^{171} . <i>Physical Review A</i> , 2017, 95, .	1.0	6
153	CONTRIBUTION OF THORON AND PROGENY TOWARDS INHALATION DOSE IN A THORIUM ABUNDANT BEACH ENVIRONMENT. <i>Radiation Protection Dosimetry</i> , 2018, 178, 405-413.	0.4	6
154	ASSESSMENT OF RADON IN SOIL AND WATER IN DIFFERENT REGIONS OF KOLHAPUR DISTRICT, MAHARASHTRA, INDIA. <i>Radiation Protection Dosimetry</i> , 2018, 181, 382-387.	0.4	6
155	Electric dipole polarizability of Xe^{129} using the relativistic coupled-cluster and the normal coupled-cluster methods. <i>Physical Review A</i> , 2018, 97, .	1.0	6
156	Study of HgOH^+ to Assess Its Suitability for Electron Electric Dipole Moment Searches. <i>Atoms</i> , 2021, 9, 7.	0.7	6
157	Radon mapping in groundwater and indoor environs of Budgam, Jammu and Kashmir. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 329, 923-934.	0.7	6
158	Electric dipole and quadrupole properties of the Cd atom for atomic-clock applications. <i>Physical Review A</i> , 2021, 103, .	1.0	6
159	Nuclear charge radii of Na isotopes: Interplay of atomic and nuclear theory. <i>Physical Review C</i> , 2022, 105, .	1.1	6
160	Inhalation and external doses in coastal villages of high background radiation area in Kollam, India. <i>Radiation Protection Dosimetry</i> , 2012, 152, 154-158.	0.4	5
161	A relativistic equation-of-motion coupled-cluster investigation of the trends of single and double ionization potentials in the He and Be isoelectronic systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 115009.	0.6	5
162	The role of relativistic many-body theory in probing new physics beyond the standard model via the electric dipole moments of diamagnetic atoms. <i>Journal of Physics: Conference Series</i> , 2018, 1041, 012014.	0.3	5

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163	Roles of electron correlation effects for the accurate determination of g_j factors of low-lying states of Cd+113 and their applications to atomic clocks. Physical Review A, 2019, 100, .	1.0	5
164	Measurements of ^{222}Rn , ^{220}Rn and their progeny concentrations indoors around a coal/gas-based power plant and estimation of annual inhalation dose to the public. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 65-74.	0.7	5
165	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
166	Quantum sensing of the electron electric dipole moment using ultracold entangled Fr atoms. Quantum Science and Technology, 2021, 6, 044008.	2.6	5
167	Ground-state g factors of the ^{135}Ba and ^{137}Ba ions. Physical Review A, 2019, 100, 012501.	1.0	5
168	Application of relativistic coupled-cluster theory to atomic parity non-conservation. Computational and Theoretical Chemistry, 2006, 768, 141-150.	1.5	4
169	Theoretical spectroscopic studies of the atomic transitions and lifetimes of low-lying states in Ti IV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 055701.	0.6	4
170	Precision spectroscopy of trapped radioactive radium ions This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at École de Physique, les Houches, France, 30 May–4 June, 2010.. Canadian Journal of Physics, 2011, 89, 69-72.	0.4	4
171	assessment of nuclear quadrupole moments in ^{135}Ba and ^{137}Ba ions. Physical Review A, 2019, 100, 012501.	1.0	4
172	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
173	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
174	Application of relativistic coupled cluster theory to elastic scattering of electrons from confined Ca atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 185003.	0.6	4
175	High-precision determination of Lorentz-symmetry-violating parameters in ^{40}Ca and ^{40}Ar . Physical Review A, 2019, 99, .	1.0	4
176	Optical-lattice-based method for precise measurements of atomic parity violation. Physical Review A, 2019, 100, .	1.0	4
177	A study on natural radioactivity and potential of ^{222}Rn , ^{220}Rn exhalation from Deccan table land of Kolhapur district, Maharashtra, India. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 1333-1341.	0.7	4
178	Determination of the dipole polarizability of the alkali-metal negative ions. Physical Review A, 2020, 102, .	1.0	4
179	Significance of Non-Linear Terms in the Relativistic Coupled-Cluster Theory in the Determination of Molecular Properties. Symmetry, 2020, 12, 811.	1.1	4
180	Benchmarking many-body approaches for the determination of isotope-shift constants: Application to the Li^+Be^+ , and Ar^{15+} isoelectronic systems. Physical Review A, 2021, 103, .	1.0	4

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181	Relativistic Coupled-Cluster Calculations of Isotope Shifts for the Low-Lying States of Ca II in the Finite-Field Approach. <i>Atoms</i> , 2021, 9, 26.	0.7	4
182	Study of pre-seismic thoron anomaly using empirical mode decomposition based Hilbert–Huang transform at Indo-Burman subduction region. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 330, 1571.	0.7	4
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