

DR. ARUN GOEL

Research Papers:

1. "Photoionization study of Ne-like K₉⁺, Ca₁₀⁺, Sc₁₁⁺, Ti₁₂⁺, V₁₃⁺, Cr₁₄⁺, Mn₁₅⁺, and Fe₁₆⁺ ions using the screening constant by unit nuclear charge method"

Radiation Physics and Chemistry 125: 50-55. (Scopus, Science citation index, web of science)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0969806X16300937>

2. "MCDHF calculations and study of plasma parameters for Li-like ions"

Radiation Physics and Chemistry 123: 46-54. (Scopus, Science citation index, web of science)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0969806X16300615>

3. "Extreme ultraviolet and soft x-ray spectral lines in Rb XXIX"

Chinese Physics B 25(3): 033201. (Scopus, web of science)

Link to the article/paper

http://cpb.iphy.ac.cn/article/2016/1815/cpb_25_3_033201.html

4. "Calculation of Energy Levels, Lifetimes and Radiative Data for La XXIX to Sm XXXIV"

Atomic Data and Nuclear Data Tables 107: 406-456. (Scopus, Science citation index, web of science)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0092640X15000315>

5. "Energy Levels and Radiative Transition Rates for Ba XLVIII"

Atomic Data and Nuclear Data Tables 107: 367-405. (Scopus, Science citation index, web of science)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0092640X15000327>

6. "Energy levels, lifetimes and radiative data of Ba XXVI"

Atomic Data and Nuclear Data Tables 109-110: 339-351. (Scopus, Science citation index, web of science)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0092640X16000036>

7. "Analysis of discrepancy in previously published excitation energies of Ne-like ions from two independent codes and atomic data of Rb XXVIII and Ba XLVII"

Journal of Electron Spectroscopy and Related Phenomena 239: 146905. (Scopus, Science citation index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0368204819302300>

8. "Atomic structure calculations, partition function, and thermodynamic parameters for W LXXII and Au LXXVII"

Physics of Plasmas 25(9):

Link to the article/paper

<https://aip.scitation.org/doi/full/10.1063/1.5051320>

9. "Characterization of hot dense plasma with plasma parameters"

Radiation Physics and Chemistry 146:105-114. (Scopus, Science citation index, web of science)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0969806X17310538>

10. "Spectroscopic study of EUV and SXR transitions of Cs XXV"

Canadian Journal of Physics 96(88): 871-877. (Scopus, Science citation index)

Link to the article/paper

<https://cdnsiencepub.com/doi/full/10.1139/cjp-2017-0359>

11. "Determination of atomic properties in the oxygen isoelectronic sequence".

Results in Physics 22. (Scopus, SCI index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/pii/S2211379721001005>

12. "Effect of plasma environment on spectral and structural properties of H-like C, N and O ions".

Journal of Electron Spectroscopy and Related Phenomena 251. (Scopus, Science citation index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S036820482100061X>

13. "Partition function and thermodynamic quantities with atomic data of Ag XLIV".

Canadian Journal of Physics 99(9): 820-831. (UGC care list Scopus, Science citation index)

Link to the article/paper

<https://cdnsiencepub.com/doi/full/10.1139/cjp-2020-0419>

14. "Photoionization of Cl-like Ni XII using relativistic R matrix close coupling method"

Canadian J. of Physics 95(11): 1136-1141. (Scopus, Science citation index)

Link to the article/paper

<https://cdnsiencepub.com/doi/full/10.1139/cjp-2017-0021>

15. "Study of Relativistic excitation energies and transition data of x-ray and EUV transitions in Belike ions"

Journal of electron spectroscopy and Related phenomenon 232: 53-72. (Scopus, Science citation index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0368204818302305?via%3Dihub>

16. "Atomic Structure Calculations and Study of Line Intensity Ratio for Kr XXIV"

Canadian Journal of Physics 94(8): 712-723. (Scopus, Science citation index)

Link to the article/paper

<https://cdnsiencepub.com/doi/abs/10.1139/cjp-2016-0167>

17. "Collisional Excitations of Fluorine Like Tungsten using relativistic data Atomic R-Matrix Method".

Journal of Atomic, Molecular, Condensate and Nano Physics 2 (1): 1-14.

Link to the article/paper

<https://www.rgnpublications.com/journals/index.php/jamcnp/article/view/269>

18. "Collisional Excitations of Fluorine Like Tungsten using relativistic data Atomic R-Matrix Method".

Journal of Atomic, Molecular, Condensate and Nano Physics 2 (1): 1-14.

Link to the article/paper

<https://www.rgnpublications.com/journals/index.php/jamcnp/article/view/269>

19. "Energy Levels and Radiative Transition Rates for Ba XLVIII".
Atomic Data and Nuclear Data Table 107:367-405.

Link to the article/paper

<file:///C:/Users/AJIT%20BANSAL/Downloads/j.adt.2015.07.002.pdf>

20. "R-Matrix Calculations of Photoionization Cross Section of Ne-like Tungsten".
Canadian Journal of Physics 93 (11): 1221-1226.

Link to the article/paper

<https://cdnsiencepub.com/doi/10.1139/cjp-2015-0093>

21. "Extended atomic structure calculations for energy levels and radiative data of Xe XLIII"
journal of electron spectroscopy and related phenomena 229: 94-99. (Scopus, Science citation index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0368204818301907>

22. "Theoretical study of extreme ultraviolet and soft X-ray transitions of In XLVI and Sn XLVII with plasma parameters"
journal of electron spectroscopy and related phenomena 227: 23-30. (Scopus, Science citation index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0368204818300951>

23. "Analysis of configuration interaction and convergence with energy levels and radiative data in W XXXIX".
journal of electron spectroscopy and related phenomena 234: 47-56. (Scopus, Science citation index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0368204818302123>

24. "Energy levels, transition data and collisional excitation cross-section of Sn³⁺ and Sn⁴⁺ ions"
Journal of Electron Spectroscopy and Related Phenomena 244. (Scopus, Science citation index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0368204820300505>

25. "Excitation energies, transition data of SXR, HXR, EUV and far-UV spectral lines with partition function, thermodynamic parameters and level population for W LXVII and W XLIX"
Journal of Electron Spectroscopy and Related Phenomena 246. 147009 (Scopus, Science citation index)

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0368204820300773>

26. "Strongly coupled plasma effect on excitation energies of O-like ions and photoionization of F-like ions"
Indian Journal of Physics (Scopus, SCI, UGC care list)

Link to the article/paper

<https://link.springer.com/article/10.1007/s12648-021-02106-0>

27. "Collision strength and effective collision strength for Ba XLVIII"
Canadian journal of Physics 95(2): 65.

Link to the article/paper

<https://cdnsiencepub.com/doi/abs/10.1139/cjp-2016-0513?af=R>

28. "X-ray diffraction patterns and diffracted intensity of $K\alpha$ spectral lines of He-like ions"

Radiation Physics and Chemistry 138: 16-21.

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0969806X17304759>

29. "Screening constant by unit nuclear charge calculations of resonance energies and widths of the $3p_{ns}$ $1,3P^{\circ}$ and $3p_{nd}$ $1P^{\circ}$ Rydberg series of Mg-like ($Z=13-26$) ions"

Radiation Physics and Chemistry 130: 208-215.

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0969806X16302808>