

Special Issue

Atomic Processes for Plasma Modeling Applications

Message from the Guest Editor

Atomic processes such as excitation and ionization by electron impact, photoexcitation, photoionization, radiative and dielectronic recombination, charge exchange, etc., are amongst the dominant processes in laboratory and astrophysical plasmas. Accurate knowledge of these processes assists in investigating the spectral line emissions from plasma and thereby unveils information about the plasma properties, viz., the constituent elements and their abundances, electron density, plasma temperature, opacity, etc.

For this special issue, we invite experimental and theoretical research articles on the above atomic processes involving heavier and complex ions that vigorously influence the modeling of astrophysical and laboratory plasmas and their applications. Reviews stating the areas where atomic data are lacking for plasma modeling are also welcome.

Guest Editor

Dr. Lalita Sharma

Department of Physics, Indian Institute of Technology Roorkee,
Roorkee 247667, India

Deadline for manuscript submissions

closed (31 August 2023)

Atoms

an Open Access Journal
by MDPI

Impact Factor 1.5
CiteScore 3.1



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Atoms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atoms@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The scope of *Atoms* is deliberately wide and encompasses a large part of theoretical and experimental atomic, molecular, nuclear, and chemical physics in order to encourage cross-disciplinary connections, while supporting the more traditional idea of individual subfields. The journal is also interested in papers concerning the computation and compilation of data related to applications in the above areas. Details of experimental methods and codes are welcome. Your research is taken seriously and peer-reviewed with care. I encourage you to contact me or any of the Editorial Board Members for further information.

Editor-in-Chief

Prof. Dr. Pascal Quinet

1. Physique Atomique et Astrophysique, Université de Mons, B-7000 Mons, Belgium
2. IPNAS, Université de Liège, B-4000 Liège, Belgium

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