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# **Atomic Processes for Plasma Modeling Applications**

Guest Editor:

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Deadline for manuscript submissions: closed (31 August 2023)

### 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 densitv. 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.



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## **Editor-in-Chief**

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## 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

seriously and peer-reviewed with care. I encourage you to contact me or any of the Editorial Board Members for further information.

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