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## Atomic Physics at the Extreme: The Solar Abundance Problem

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Deadline for manuscript  
submissions:

**closed (15 January 2020)**

### Message from the Guest Editor

This Special Issue of *Atoms* will highlight the need for continuing research on the different atomic properties affecting heat transport in the Sun as well as other main sequence stars and astrophysical phenomena. In addition, the importance of laboratory studies of hot and dense plasmas will be discussed. Particular emphasis will be put on new directions to study opacities in solar conditions and their relation to the solar abundance problem.

### Keywords

- Solar Physics
- Main sequence stars
- opacity
- hot and dense matter
- laboratory plasma
- line shapes
- Z-machine
- high energy density physics



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**Special** Issue



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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 to contact me or any of the Editorial Board Members for further information.

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