

Special Issue

Current Studies and Applications of Radiative and Collisional Processes in Atoms

Message from the Guest Editor

This Special Issue will bring together contributions related to current studies of radiative and collisional processes in atoms, both regarding the theoretical and experimental determination of relevant fundamental parameters and their applications in different scientific fields, such as astrophysics, laboratory plasma physics, atom-based quantum technology, and artificial intelligence.

- atomic structure and spectra: theory and experiment
- atomic collisions: theory and experiment
- atomic data: applications to astrophysical and laboratory plasmas
- cold atoms and atom-based quantum technology
- artificial intelligence for atomic physics

Welcome to The 1st International Online Conference on Atoms: <https://sciforum.net/event/IOCAT2026?section=#welcome>

Guest Editor

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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

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