

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

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

Deadline for manuscript submissions

30 June 2026

Atoms

an Open Access Journal
by MDPI

Impact Factor 1.5
CiteScore 3.1



mdpi.com/si/246971

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

mdpi.com/journal/atoms



Atoms

an Open Access Journal
by MDPI

Impact Factor 1.5
CiteScore 3.1



[mdpi.com/journal/
atoms](https://mdpi.com/journal/atoms)



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

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Astrophysics Data System, Inspec, CAPlus / SciFinder, INSPIRE, and other databases.

Journal Rank:

CiteScore - Q2 (Nuclear and High Energy Physics)