

# Special Issue

## Electron Scattering from Atoms, Ions and Molecules

### Message from the Guest Editors

For this Special Issue, our aim is to provide recent developments and new results in the area of electron initiated atomic and molecular collision physics and their related applications in plasma modelling. We invite original contributions covering all aspects of electron collisions with atoms, ions, and molecules, such as:

- Relativistic and non-relativistic elastic scattering from atoms, ions and molecules;
- Electron impact excitation and ionization of light and heavy atoms and ions;
- Relativistic and non-relativistic atomic structure calculations;
- Electron-molecule scattering, including rotational, vibrational and electronic excitations;
- Correlation, polarization, and ionization in electron impact atomic and molecular collisions;
- Electron impact inner shell excitations and Auger's electron spectroscopy;
- Plasma related optical emission spectroscopy (OES) measurements;
- Application of electron impact atomic and molecular collision data in astrophysical and laboratory plasma modelling.

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### Guest Editors

Prof. Dr. Rajesh Srivastava

Department of Physics, Indian Institute of Technology (IIT), Roorkee  
247667, India

Prof. Dr. Dmitry V. Fursa

Department of Physics and Astronomy, Curtin University, Perth, WA  
6845, Australia

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### Deadline for manuscript submissions

closed (30 November 2022)

## Atoms

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

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### 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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