

Special Issue

Accelerator-Based Atomic Physics: Fast Ion–Atom and Ion–Molecule Collisions

Message from the Guest Editor

For this Special Issue, we invite original contributions covering all aspects of fast ion–atom and ion–molecule collisions including excitation, ionization, charge transfer, dissociation, and fragmentation for energetic collision velocities reaching up to the relativistic regime. Topics may include new theoretical or computational approaches, new experimental techniques, electron and X-ray spectroscopy data, calculations and measurements of cross sections, collision dynamics, and the use of collisional data in other research areas. The goal is to provide an overview of the current research in the field, and of new insights, developments, applications, and open problems.

Guest Editor

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Deadline for manuscript submissions

closed (16 February 2021)

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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.

Editor-in-Chief

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