Special Issue

Atomic and Ionic Collisions with Formation of Quasimolecules

Message from the Guest Editors

Many fields in physics and astronomy, depend on data for ionic, atomic and molecular collision processes. Nowadays, in the field of astrophysics modeling of these data is especially important and needed for simulations/calculations. Additionally, these processes are important for diagnostics, analysis and modeling of fusion plasma, laser produced plasma, lasers design and development and various plasmas in industry and technology. Among these amounts of data collection, there are collisional and radiative processes that even today are poorly represented. Therefore, there is an urgent need to collect these data, as well as to develop methods for improving the existing ones. This Special Issue aims to encourage further dialogue and knowledge transfer. Potential topics include, but are not limited to:

- atomic data
- molecular data
- stellar spectra
- laboratory plasma
- fusion plasma
- stars
- atomic and molecular databases
- Rydberg atoms
- collisional atomic processes

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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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