Special Issue on Atomic and Molecular Physics

Call for Papers

Atomic physics is the subfield of physics that studies atoms as an isolated system of electrons and an atomic nucleus. It is primarily concerned with the arrangement of electrons around the nucleus and the processes by which these arrangements change. Molecular physics is the study of the physical properties of molecules, the chemical bonds between atoms as well as the molecular dynamics. The important experimental techniques are the various types of spectroscopy. Molecular physics, while closely related to atomic physics, also overlaps greatly with theoretical chemistry, physical chemistry and chemical physics.

Both subfields are primarily concerned with electronic structure and the dynamical processes by which these arrangements change. Generally this work involves using quantum mechanics. For molecular physics this approach is known as quantum chemistry. One important aspect of molecular physics is that the essential atomic orbital theory in the field of atomic physics expands to the molecular orbital theory.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring Atomic and Molecular Physics.

Authors should read over the journal’s Authors’ Guidelines carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal Paper Submission System.

Please kindly notice that the “Special Issue” under your manuscript title is supposed to be specified and the research field “Special Issue - Atomic and Molecular Physics” should be chosen during your submission.

According to the following timetable:

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Guest Editor:

For further questions or inquiries
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