Special Issue

Current Developments and Applications of Atomic Structure and Radiative Process Investigations

Message from the Guest Editor

The study of electronic structures and radiative processes in atoms, from neutrals to highly ionized species, has known a considerable development during the past decades, the new contributions arising both from experiment and theory. On the experimental side, the recent developments allow now to measure atomic parameters with a very high accuracy. This is extremely useful to test the predictive power of theoretical models and to obtain a reliable absolute scale for spectroscopic data, such as radiative transition probabilities, for example. On the theoretical side, an intense effort over the last years has been directed toward developing methods to accurately and simultaneously account for relativistic and correlation effects in many-electron systems, both effects being intertwined in heavy atoms and ions. Accurate atomic structure and radiative data are an essential ingredient for a wide range of research fields as well as for major technological applications.

Guest Editor

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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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