Special Issue

Calculations and Measurements of Atomic and Molecular Collisions

Message from the Guest Editors

Progress in theoretical modeling and laboratory measurements of reaction rates at atomic and molecular scales has recently led to breakthroughs in spectroscopy with astrophysical, astrochemical, and fusion targets. Cross-disciplinary efforts are needed to ensure that the calculations and laboratory measurements are carried out on aspects that are relevant to the target sources, and that these new results can be validated and further improved through comparisons. Papers in this Special Issue provide insight into the current activities in the creation of atomic and molecular rates, identifying challenges with respect to the demands from the user community, and highlighting solutions that bridge the theoretical and laboratory efforts. theoretical calculations of collisional, photoionized, recombination, or charge exchange spectra and reaction rates; calculations of molecular formation and transitions; laboratory spectroscopy of atomic and molecular collisions and interactions...

Guest Editors

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Deadline for manuscript submissions

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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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