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Many-Electron and Multiphoton Atomic Processes: A Tribute to Miron Amusia

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Deadline for manuscript submissions:
closed (1 September 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue will contain contributions from numerous colleagues and collaborators of the late Prof. Miron Amusia, who had been a key figure in the international theoretical atomic physics community over the past half a century. The focus of the Special Issue will be on many-electron and multiphoton atomic processes which are at the forefront of contemporary atomic and molecular physics. Special attention will be given to many-electron correlation problems and its interplay with strong-field laser–atom interactions. Recent advances in the generation of short and intense laser pulses make this problem particularly topical. Although some recent topical issues have addressed strong laser physics and attosecond science (MDPI Applied Sciences 2019, IOP J.Phys & J.Photonics 2020), the many-electron correlation problem has never been the focus in this context. Therefore, the present proposal will usefully supplement existing literature and will be of interest to a large section of the atomic and strong laser physics community, both theoretically and experimentally.

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Guest Editors

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Special Issue

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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.

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