

# Special Issue

## Rydberg Atomic Physics

### Message from the Guest Editor

Because of their high polarizability and responsiveness to relatively small perturbation, Rydberg states are attractive for a number of applications, such as building quantum logic gates, electromagnetically induced transparency and control, quantum information processing, quantum nonlinear media, and diagnostics. The objective of this Special Issue of *Atoms*, entitled “Rydberg Atomic Physics”, is to present the main ideas and applications from different fields of work, all dealing with or making use of Rydberg states. It is also hoped that this Special Issue will stimulate the exchange and cross-fertilization of ideas, applications, techniques and methods across different disciplines and result in increased interactions between different communities working with Rydberg states.

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### Guest Editor

Dr. Spiros Alexiou  
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### Deadline for manuscript submissions

closed (31 October 2023)

## Atoms

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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.

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### Editor-in-Chief

Prof. Dr. Pascal Quinet

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