atoms

an Open Access Journal by MDPI

IMPACT FACTOR 1.8

CITESCORE 3.1

The 5th Spectral Line Shapes Workshop: Current Topics in Spectral Line Broadening in Plasmas

Guest Editor:

Dr. Spiros Alexiou
Hellenic Army Academy, Varis-Koropiou Avenue, 16673 Vari, Greece

Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

The Spectral Line Shapes in Plasma (SLSP) code comparison workshop series [1] has provided a forum for the fruitful introduction, refinement, and testing of ideas and computational methods, applied to suitably chosen test cases for line shape computations in plasmas, which, among other things, is very important for diagnostics of laboratory and astrophysical plasmas. Five meetings have been held thus far—in 2012, 2013, 2015, 2017, and 2019.

Selected topics from the first two workshops were published in an *Atoms* Special Issue [2], with a second Special Issue [3] covering topics from the 3rd and 4th SLSP. The present Special Issue mostly covers topics either directly from the 5th SLSP or topics that emerged from the many fruitful discussions during the meeting, such as large magnetic fields and isolated lines. As usual, the present Special Issue is meant to address a number of current research topics, and to publish contributions from the wider community working on diverse aspects of calculations of spectral line shapes in plasma.

Dr. Spiros Alexiou
Guest Editor

atoms

an Open Access Journal by MDPI

IMPACT FACTOR 1.8

CITESCORE 3.1

Editor-in-Chief

Dr. James F. Babb
Institute for Theoretical Atomic and Molecular Physics, Center for Astrophysics | Harvard & Smithsonian, Cambridge, MA 02138, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, ESCI (Web of Science), Astrophysics Data System, Inspec, CAPlus / SciFinder, INSPIRE, and other databases.
Journal Rank: CiteScore - Q2 (*Nuclear and High Energy Physics*)

Contact Us

Atoms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atoms
atoms@mdpi.com
𝕏@Atoms_MDPI