



*atoms*



an Open Access Journal by MDPI

## Laser Induced Breakdown Spectroscopy for Biological Samples

Guest Editors:

**Dr. Javier Manrique**

Facultad de Farmacia,  
Universidad CEU San Pablo,  
Urbanización Montepríncipe,  
Boadilla del Monte, E-28668  
Madrid, Spain

**Dr. Pablo Olleros-Rodríguez**

Department of Chemistry and  
Biochemistry, CEU San Pablo  
University, Urbanización  
Montepríncipe, 28925 Alcorcón,  
Madrid, Spain

### Message from the Guest Editors

The purpose of this Special Issue is to show the advances in the application of laser induced breakdown spectroscopy (LIBS) to biological samples. By this technique, a pulsed laser is focused onto a surface, causing the vaporization and ablation of the surface material. As a consequence, a very bright plasma rises whose light is studied. From the observation of the spectrum, the content of the sample is obtained with high resolution (better than ppm).

Deadline for manuscript  
submissions:

**closed (30 April 2023)**



[mdpi.com/si/109099](https://mdpi.com/si/109099)

**Special** Issue



*atoms*



an Open Access Journal by MDPI

## 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*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

mdpi.com/journal/atoms  
atoms@mdpi.com  
@Atoms\_MDPI