



Recent Advancements in Tunable Laser Technology

Guest Editor:

Dr. Dário Machado Garcia

Centro de Física e Investigação
Tecnológica, Universidade NOVA
de Lisboa, Lisbon, Portugal

Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editor

Tunable laser technology has advanced significantly, providing versatile light sources with adjustable wavelengths. These lasers are integral to telecommunications, enabling high-speed data transmission through wavelength-division multiplexing. In spectroscopy, they facilitate precise measurements of molecular absorption spectra for chemical analysis. Additionally, tunable lasers play crucial roles in material processing, offering control in laser ablation and micro-structuring. In medical diagnostics, they enable non-invasive imaging modalities like optical coherence tomography for detailed tissue imaging.

This Special Issue on 'Recent Advancements in Tunable Laser Technology' invites submissions of basic, methodological, and cutting-edge research, including regular and review papers, contributing to the following:

- Creation and validation of single or multiple spectroscopic instruments for diverse applications.
- Innovation in materials for generating tunable laser technology.
- Advancements in multispectral lasers and methods for scalability.
- Validation of methods and tools utilized or developed for tunable laser technology applications.
- Review of current status.

