

## Special Issue

# High-Power Microwave and Plasma Interactions

### Message from the Guest Editor

During the last decade, there have been many advances and achievements in the generation of High-Power Microwaves (HPM) in relativistic magnetrons, backward oscillators, magnetically insulated transmission line oscillators, non-linear transmission lines and microwave compressors. The efficiency of operation of most of these devices is governed by high-current electron beams generated by explosive emission plasma cathodes and by plasma formation and evolution in slow wave structures. In addition, such high-power microwave beams open up new avenues in the field of HPM interactions with different mediums. For this Special Issue of *Plasma*, researchers active in all aspects of the field of high power microwaves and plasma interactions are invited to submit their latest results. Papers covering fundamental studies, as well as papers discussing applications, are welcome. Topics of interest generally include (but not limited to):

- High power microwaves
- Plasma
- Electron beams
- Plasma cathodes

### Guest Editor

Prof. Dr. Yakov Krasik

Department of Physics, Technion-Israel Institute of Technology, Haifa 32000, Israel

### Deadline for manuscript submissions

closed (31 January 2019)



## Plasma

an Open Access Journal  
by MDPI

Impact Factor 1.7  
CiteScore 3.1



[mdpi.com/si/17065](https://mdpi.com/si/17065)

*Plasma*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[plasma@mdpi.com](mailto:plasma@mdpi.com)

[mdpi.com/journal/  
plasma](https://mdpi.com/journal/plasma)





# Plasma

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.7  
CiteScore 3.1



[mdpi.com/journal/  
plasma](https://mdpi.com/journal/plasma)



## About the Journal

### Message from the Editor-in-Chief

---

#### Editor-in-Chief

Prof. Dr. Andrey Starikovskiy  
Department of Mechanical and Aerospace Engineering, Princeton  
University, Princeton, NJ 08540, USA

---

#### Author Benefits

##### High Visibility:

indexed within ESCI (Web of Science), Scopus, Inspec,  
CAPlus / SciFinder, and other databases.

##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 22.6 days after  
submission; acceptance to publication is undertaken in 4.6  
days (median values for papers published in this journal in  
the first half of 2025).

##### Recognition of Reviewers:

reviewers who provide timely, thorough peer-review  
reports receive vouchers entitling them to a discount on  
the APC of their next publication in any MDPI journal, in  
appreciation of the work done.