



High-Power Microwave and Plasma Interactions

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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

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