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Plasma Spectroscopy and Plasma Diagnostics: From Classical to Sophisticated Methods

Guest Editor:

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Message from the Guest Editor

The objective of this Special Issue of *Atoms*, entitled “Plasma Spectroscopy and Plasma Diagnostics: From Classical to Sophisticated Methods”, is to summarize in a single issue all the major techniques and methods which are used in spectroscopy and diagnostics of plasmas from traditional/classical methods to the latest and sophisticated ones, including those combining physical models with artificial intelligence, e.g., machine learning. It is intended to cover all kinds of plasmas, from astrophysical low-density low-temperature plasmas to high-density high-energy plasmas which are produced in laboratories using intense and ultra-fast laser beams. This Special Issue concerns both magnetized and non-magnetized plasmas, as well as plasmas at thermal equilibrium and those deviating from it. It also aims to increase the interactions between communities by sharing the various techniques and ideas related to plasma spectroscopy and plasma diagnostics between these various plasma communities and others, such as atomic physicists.



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Special Issue