

Special Issue

Processes in Atmospheric-Pressure Plasmas—2nd Edition

Message from the Guest Editor

Different types of atmospheric-pressure plasma are applied not only in classical fields, such as material research, diagnostics, or industrial production, but are also applied in relation to novel approaches in food and seed science, as well as in medicine, in applications including wound healing, dentistry, sterilization, and odor control, among many others. The most frequently used methods for atmospheric-pressure plasma generation include the following:

- Different atmospheric-pressure plasma jets based on kHz DBD, radio frequency, microwaves, and pulsed arcs, operated with different gases.
- Dielectric-barrier discharges, including surface-barrier discharges, coplanar surface-barrier discharges, and atmospheric-pressure glow operated with noble gases or their mixtures with oxygen or hydrogen.
- Piezoelectric direct discharge used both in ambient air and in wall-specified gas mixtures of nitrogen, oxygen, synthetic air, or compressed dried air.
- Corona discharges, especially positive pulsed corona.

Guest Editor

Dr. Dariusz Z. Korzec

Relyon Plasma GmbH, 93055 Regensburg, Germany

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Plasma
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plasma@mdpi.com

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

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