Special Issue

Dielectric Barrier Discharge Plasma Actuator

Message from the Guest Editors

In the last three decades, dielectric barrier discharge (DBD) plasma actuators have received widespread attention as novel flow control devices, with the advantages of a quick response and easy installation. The continued development of plasma actuators is expected. We invite you to contribute your research to this Special Issue. The aim of this Special Issue is to provide the reader with research on the performance evaluation, modeling, and application of conventional and innovative plasma actuators in flow control, including, but not limited to, the following issues:

- The performance improvement of DBD plasma actuators;
- The plasma physics of DBD plasma actuators;
- The detailed performance evaluation of DBD plasma actuators;
- New ideas and devices for efficiently driving DBD plasma actuators, including improvements in materials composing plasma actuators and power supply units;
- DBD plasma actuators applied to control the flow around objects, such as airfoil, wings, blunt bodies, and fluid machines;
- The side effects of actuation of plasma actuators, such as ozone and radio emissions, or the degradation of plasma actuator material due to continuous use.

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Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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