Special Issue

Plasma Actuator

Message from the Guest Editor

In the last three decades, plasma actuators have attracted wide attention in the aerodynamic community as a novel flow control technique. The studies covered a variety of hydrodynamic problems including supersonic flow control by heat release and MHD interaction, the control of boundary layer transition and turbulent friction, airframe and jet noise reduction, and many others. Presently, plasma actuators are used by many groups in the laboratory as a high-frequency, robust disturbance source in transition experiments. New applications, such as reducing turbulent friction or reactive control in transition studies, set new challenges for the plasma actuators community, posed at the border of hydrodynamics, low-temperature plasmas, and material science. The new issues cover the problems of the electrodes' durability, signal-to-noise ratio, and spatial resolution of the plasma-based flow control devices.

Guest Editor

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