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# Thermodynamics of Non-Equilibrium Gas Flows

Guest Editor:

### Dr. Xiaojun Gu

Daresbury Laboratory, Scientific Computing Department, Science and Technology Facilities Council (STFC), Warrington WA4 4AD, UK

Deadline for manuscript submissions:

closed (31 July 2019)

### Message from the Guest Editor

Dear Colleagues,

Non-equilibrium gas flows exist in many industrial applications and scientific research facilities, including mass spectrometry, low-pressure environments, vacuum pumps, micro-electro-mechanical systems (MEMS), highaltitude vehicles, and porous media. A comprehensive understanding of the thermodynamics of non-equilibrium gas flows is essential for the design and operation of application systems, which are beyond the capabilities of conventional thermodynamics. These flows in engineering applications cover a wide range of time and length scales and represent a fundamental modelling and simulation challenge.

This Special Issue aims at collecting original papers on theoretical, computational and experimental studies of non-equilibrium, low- and high-speed gas flows with the goal of providing readers with an overview of the current research conducted in this field and the possible applications.

Dr. Xiaojun Gu Guest Editor







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#### Prof. Dr. Kevin H. Knuth

Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

## **Message from the Editor-in-Chief**

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