Special Issue

Flame Radiation

Message from the Guest Editors

Flame radiation is generally recognized as an important and fundamental subject in fire research (such as the hydrocarbon pool fire, compartment fire, jet flame, and so on) and many combustion systems. For example, flame radiation can exert a strong influence on fire detection, ignition, and spread, and indeed, flame radiation constitutes over 80% of the energy required for fuel gasification in large-scale fires. Accurate prediction of flame radiation requires a good understanding of the radiative transport theory as well as detailed information on the radiative properties of the combustion products. Flame radiation is essential for predicting their thermal performance as well as consequently improving the fuel economy. The Special Issue aims to seek novel papers that address important issues related to flame radiation. The scope of this Special Issue is to gather original, fundamental, and applied research concerning experimental, theoretical, computational, and case studies that contribute towards the understanding of flame radiation. Original research articles and reviews are welcome.

Guest Editors

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Dr. Fei Ren

Dr. Rujia Fan

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Deadline for manuscript submissions

closed (31 March 2024)

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About the Journal

Message from the Editor-in-Chief

Fire is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire*'s Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

Editor-in-Chief

Dr. Grant Williamson
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