Special Issue

Thermochemical Conversion Systems

Message from the Guest Editors

While progress towards cleaner energy generation is evident, challenges remain in fully realizing this potential. The SI seeks research on conventional thermochemical conversion systems, including combustion, pyrolysis, gasification processes, novel solid fuels, individual issues related to process parameters and handling, flue gas control and purification, synthetic gas purification and utilization, by-product management, and systematic studies on computational modeling or environmental footprint determination.

Topics: Household combustion processes; Thermochemical power plants; Incineration power plants; Gasification process; Pyrolysis process; Advanced thermochemical complexes; Fuel adjustment; Biomass energy utilisation; Biomass and waste valorization; Hydrothermal processes; Solid fuels of fossil origin; Waste-to-energy; Waste-to-liquid; Process monitoring and handling; Machine learning in thermochemical conversion systems; Utilisation of by-products; Plasma processes; Hydrogen production and utilisation in energy systems; Environmental footprint determination; Process efficiency; Process modeling; Purification and ecologisation.

Guest Editors

Dr. Jakub Čespiva

Dr. Jiri Rysavy

Dr. Łukasz Niedźwiecki

Dr. Yuming Wen

Dr. Ruming Pan

Deadline for manuscript submissions

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

mdpi.com/journal/fire

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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
School of Biological Sciences, University of Tasmania, Private Bag 55, Hobart, TAS 7001, Australia

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