Special Issue

Advanced Combustion Propulsion Technologies for Low Carbon and Zero Carbon Transport

Message from the Guest Editors

The transport sector accounts for approximately 23% of global carbon dioxide emissions. To decarbonise the transport sector, biofuels and other alternative energy vectors such as hydrogen and e-fuels can potentially provide over 50% of transport energy by 2050. Whilst there is a drive to move towards electrification to reduce carbon emissions, it is also vital to innovate developments in fuel combustion technologies for alternative zero/low carbon propulsion systems. These systems are not only more cost-effective than electric powertrains but will play a key role in decarbonising the aviation, marine, and heavy duty sectors.

Therefore, with an urgent need to decarbonise the transport sector in the next few decades, research and development of combustion technologies need to shift towards low/zero carbon fuels and hybridised systems. In this context, this Special Issue will comprise recent original works on combustion technologies for road, air, and water transport utilising low/zero carbon fuels, with the aim of disseminating research results and promoting their development and application.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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