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Influence of Biofuel Additions on the Ignition Delay of Single Diesel Fuel Drops

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Deadline for manuscript submissions:

closed (30 June 2021)

Message from the Guest Editor

Dear Colleagues,

The present issue constitutes a reexamination of the problem of liquid biofuel-diesel droplet combustion and will therefore discuss experimental, theoretical, and computational research dealing with droplet ignition delay phenomena.

Examples of such cases include but are not limited to:

- The droplet ignition in a high-pressure environment:
- Ignition of bi-component and multicomponent droplets of oxygenated diesel fuel;
- The effects of 1st–4th-generation biofuel additives on ignition delay of diesel fuel droplets;
- The application of droplet theories with a special emphasis on ignition delay to the modeling of various combustion systems;
- Determination of ignition characteristics of the droplets containing biological additives that are not yet commercialized and could potentially be produced from hundreds of different industrial and non-industrial species, like algal biomass;
- Quasi-steady and unsteady models for the ignition of a fuel droplet in a stagnant environment;
- Convective effects on droplet ignition.

Dr. Laurencas Raslavičius

Guest Editor

Specialsue







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