



Journal of Chemistry

Special Issue on

New Energy Fluids for Low Carbon Technologies

CALL FOR PAPERS

Over the last decades the reduction of emissions during production, transportation, storage, and, of course, the use of industrial fluids in engines and energy industry has become a very important worldwide objective. Considerable effort is being exerted on the development of low carbon technologies, with the aim of reducing emissions. Energy industrial fluids like biofuels, CO₂-fluid mixtures, refrigerants, heat transport liquids, phase change materials for energy storage, or lubricants present frequently a complex mixture of a large number of components that have to meet international standards and quality criteria.

Many new compounds have to be produced and developed to reduce pollutants from transportation and energy industry exhaust gases and effluents. Proponents of these new low carbon fluids claim several advantages: they improve physic and chemical properties, they can be produced from renewable agricultural and raw materials instead of fossil sources, and they reduce greenhouse gas emissions.

Herein we invite investigators to contribute original research articles as well as review articles that present or reflect the recent progress and future direction in new low carbon energy fluids, including biofuels, CO₂-fluid mixtures, refrigerants, heat transfer fluids, lubricants, and phase change materials for energy storage.

Potential topics include, but are not limited to:

- ▶ Thermodynamic and transport properties of compounds for new low carbon fluids
- ▶ Efficiency of processes of production of new low carbon fluids
- ▶ Modeling of properties and processes in new low carbon fluids
- ▶ Biorefinery production of new low carbon fluids
- ▶ Key environmental issues of new low carbon fluids
- ▶ New technologies, crops, and prospects for low carbon fluids

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jchem/petroleum.chemistry/nef/>.

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First Round of Reviews

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