



Journal of Chemistry

Special Issue on  
**Recent Developments in Petroleum Chemistry and Sustainable Energies**

CALL FOR PAPERS

Petroleum is a hydrocarbon fossil fuel having multifarious applications in fuel, synthetic, plastic, and chemical industries. It is obtained from several sources such as oil and natural gas to produce various products, namely, gasoline, fuel oil, kerosene propane, lubricating oil, wax, and asphalt. Hence, understanding petroleum geochemistry is imperative in the exploration and development of petroleum industry. Petroleum chemistry includes the study of prolific hydrocarbons such as branched or linear hydrocarbons, aromatic hydrocarbons, cycloalkanes, and several more complex hydrocarbons such as asphaltenes. Depending upon the type of alkanes present in the raw petroleum it will be suitable for different applications.

The alkanes are refined into gasoline, hexadecane, nonane, kerosene, diesel and jet fuel, and heating oil. However, the recent environmental concerns enforced the researchers to use 'renewable' or 'green energy' that has less impact on the environment than fossil fuels. It reduces the carbon footprint and helps to reduce climate change. The renewable energy sources reduce the dependence on limited reservoirs of fossil fuel, gas, and oil which are more expensive and precarious to environment.

This journal invites original research and recent developments in 'Petroleum Chemistry' for a special issue. The prospective authors are invited to submit manuscripts related to the current problems of petroleum chemistry and processing. Besides, the developments in renewable energy sources are also encouraged to be submitted for this special issue.

Potential topics include, but are not limited to:

- ▶ New petrochemicals including lubricants and additives
- ▶ Chemistry of crude oils and natural gas liquids
- ▶ Biomass conversion
- ▶ Microbial enhanced oil recovery
- ▶ Catalysts for petrochemical processes
- ▶ Solar thermal applications
- ▶ Wind energy technology
- ▶ Geothermal technology
- ▶ Hydropower
- ▶ Petroleum and environmental problems
- ▶ Hydrogen and biohydrogen production technology
- ▶ Fuel cell technology

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

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