

Tentative Outline (Preliminary Proposal of Thematic Issue)

Special/Thematic Issue for the journal Current Organic Chemistry (COC)

Current biomass-derived organic chemistry

Guest Editors: Dr. Haixin Guo

Scope of the Thematic Issue:

Increasing attention has been devoted to the transformation of biomass resources into chemical platforms and fuels due to the environmental problems and limited reserved of traditional fossil fuels. Biomass-derived organic chemical including biomass-derived organic acid, alcohol, furan derivatives, phenols, and so on has been synthesized in recent years. They can act as fuels or further used for the production of a variety of important chemicals.

Biomass-derived carbon including activated carbon, bio char, hydro Cal, and so on has been synthesized and used as a catalyst, adsorbent, energy storage agent, and so on. This Special Issue welcomes original review articles exploring the synthesis, separation, and application of biomass-derived organic materials and biomass-derive carbon materials.

Keywords: Biomass-derived α -hydroxyl acids, furan derivatives, Biomass-derived fuels, functional carbon, furan derivatives, green chemistry.

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Biomass-derived organic chemical and bio carbon synthesis methods including catalyst chemical, microwave synthesis, bioorganic chemistry synthesis, etc.
- Extraction methods include solvent extraction, supercritical/subcritical solvent extraction and solid adsorption, etc.
- Utilization of organic processes including polymer chemistry, medicinal chemistry, textiles, and so on.

Schedule:

Complete Thematic issue submission deadline: 31st December 2022.

Details of Guest Editors:

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