

Special Issue for *Current Green Chemistry*

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Title: Green Processes toward Bioproducts

Aims & Scope:

Lignocellulosic biomass, the most abundant and non-edible renewable resource, is expected to be a promising alternative to petroleum resources for the production of chemicals and biofuels. Typically, the utilization of biomass and its derivatives involves the selective cleavage or coupling of C-C and C-X (X = O, N) bonds, where toxic and environmentally unfriendly reagents can be eliminated to meet the principles of Green Engineering and Green Chemistry. This thematic issue intends to highlight the current progress on the development of green catalytic systems and processes for the selective synthesis of bioproducts. The submitted manuscripts should present novel approaches and recent advances (Review Article, Mini-review, and Current Frontier) on the development of new and green technologies to upgrade biomass and waste resources. Topics related to the preparation of sustainable functional materials and the use of correlated eco-friendly auxiliary techniques to improve the reaction rate and selectivity in the production process will be considered. Emphasis on the reaction pathways and mechanisms for the biomass transformation is also welcome.

Keywords:

Biomass conversion, Renewable resource, Value-added chemicals, Biofuels, Bioproducts, Sustainable materials, Green catalysis

Subtopics:

- Green solvents for biomass valorization
- Heterogeneous/recyclable homogeneous catalysis for conversion of renewable and waste sources
- Green technologies for cascade/multistep transformations of biomass
- Functionalization and application of sustainable materials
- Green routes or strategies for the upgrading of biomass-derived platform molecules

Some of the approved contributing authors:

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Schedule:

Manuscript Submission Deadline:	August 15, 2019
Peer Review Due:	October 15, 2019
Revision Due:	November 15, 2019
Notification of Acceptance by the Guest Editor:	November 25, 2019
Final Manuscript Due:	November 30, 2019