

## Tentative Outline

### Special Issue for “Current Biochemical Engineering” (Industrial Biocatalysts)

Guest Editors: Prof. Sulaiman Al-Zuhair and Dr. Hanifa Taher AlBlooshi

#### Aims & Scope:

The applications of enzymes, which are catalysts from biological sources, have experienced a rapid expansion and an increasing role in a variety of industries. These applications include, medical, pharmaceutical and cosmetic products, industrial chemicals, biofuels, and food & beverage. The major advantage of enzymes over chemical catalysts is their operation at milder conditions. Above that, biocatalysts have high selectivity and positional specificity that conventional chemical catalysis processes cannot achieve, providing a new dimension to chiral and functionalized molecules. Owing to the advancements in molecular biology, protein chemistry, and enzyme engineering, the commercial applications of isolated enzymes are becoming more economical. The move from traditional chemical processes to biochemical alternative catalyzed by enzymes is vital for enhancing the sustainability and reducing harmful environmental impacts of numerous industries. Despite the drastic growth in industrial enzymes applications, they encounter a variety of challenges and efforts are still needed to realize their full potential.

This section aims at bring together researchers who work in the field of industrial enzymes, to provide comprehensive views of different aspects in this hot and important area of research. We are delighted to invite you to submit a manuscript for the Biocatalyst Engineering Section of Current Biochemical Engineering journal. Participations with review and original research articles are both welcome. All manuscripts will be peer-reviewed by at least two experts in the field.

#### Subtopics:

The subtopics to be covered within this issue are listed below:

- Enzymatic reactions engineering
- Enzyme immobilization and stability enhancement
- Enzyme active membranes
- Enzymatic micro-reactor
- Enzymatic wastewater treatment
- Thermophilic enzymes

#### Schedule:

- Manuscript submission deadline: 1st April, 2020
- Peer review due: 1st May, 2020
- Revision due: 1st June, 2020
- Announcement of acceptance by the guest editor: 1st July, 2020

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