

# Tentative Outline

## Special Issue for Current Analytical Chemistry

### *Ion exchange techniques: Materials and Analytical Applications*

**Guest Editors:** Dr. Inamuddin and Dr. Rajender Boddula

#### **Aims & Scopes:**

Among the solid materials, special attention has been on cation/anion-exchange materials. Ion exchange can be defined as a process where mobilized ions obtained from a liquid phase are replaced with ions bound to a functional ion present in a solid. Ion-exchange material entails the existence of covalent and non-covalent bonds in relation to interactions as a result of ionic and electrostatic relationships between the chemicals. Amid the most recent decade, the chemical industry has understood that ion-exchange materials advances have the enormous potential for uses in chromatography, catalysis and membrane applications.

**Current Analytical Chemistry (CAC) under Bentham Scientific publishers (BSP)** aims to present an overview of current works on ion exchange materials and analytical techniques. The major goals of this special thematic issue are to find synthesis, characterization and applications of ion exchange materials in various fields such as chemical, environmental, biochemical and agrifood industries. The issue includes research papers and article reviews covering a wide range of current progress on ion exchange materials in the wide range of the topics from the laboratory level to the industrial scale.

#### **Subtopics:**

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

- **Design and characterization of ion exchange materials (resins, polymers and composites)**
- **Chromatography analytical methods**
- **Catalysis and Membranes**
- **Removal of toxic pollutants**
- **Chemical and industrial applications**
- **Challenges and breakthroughs**

#### **Schedule:**

- Manuscript Submission January 15, 2020
- Peer Review Due: February 28, 2020
- Revision Due: March 30, 2020
- Final Manuscript Due: April 30, 2020
- Notification of Acceptance by the Guest Editor: May 10, 2020

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