1. Title of your proposed Thematic Issue:

**NANOCONTAINERS: FUNDAMENTALS AND APPLICATIONS**

2. Aims and scope of your selected topic

Nanocontainer is a nanosized volume, contained the active substances. Thus nanocontainer prevents the direct contact between these active agents and the adjacent local environment.

Nanocontainer has been using mostly in pharmaceutics and material science. In pharmaceutical applications, nanocontainers has advantages over their micro counterparts, such as more efficient drug detoxification, higher intracellular uptake, better stability, less side effects and higher biocompatible with tissue and cells.

In materials science, such as coating technology, the nanocontainer can be well dispersed in a coating matrix, as the nanofillers, then they can release the embedded healing agents under critical conditions. Therefore, in presence of nanocontainers, the coating become smarter, stronger and more durable.

This thematic issue emphasizes the fundamental concepts and promising applications of nanocontainers in biomedicine, drug delivery, antibacterial, agri-food production, gas storage, smart coatings and anticorrosion.

3. Submission deadline: July 31, 2018  
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4. Thematic Issue Editors (Guest Editors)

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