

# Tentative Outline

## Special Thematic Issue for Current Nanoscience Recent Innovations On Nanomaterials as Anti-Corrosion Materials

*Guest Editors: Dr. Ashish Kumar & Dr. Mumtaz A. Quraishi*

### Aims & Scope:

Corrosion phenomenon and its functional management is a research field covering a wide range of scientific knowledge all over the globe. An Recent Innovations in nanomaterials as Anti-Corrosion materials and mechanisms provides a forum for communicating ideas, inventions and analysis in all aspects of this area which involves metallic and non-metallic corrosion with wide documentation of the corrosion control materials and techniques being used that represents the most exciting and strategically important research and development activities from around the world in current era. Recent innovations on Nanomaterials as anti-corrosion materials explore fundamental concepts on how different innovations on Nanomaterials can be useful in corrosion protection of different metals. These include application in form of nanocoatings, nanoshells, encapsulated nanoparticles, nanoalloys and solutions containing nanoparticles. This issue will motivate engineers and material scientists to work upon effective strategy for corrosion protection using nanomaterials. This issue will also focus on numerous advantages of nanomaterial based corrosion protection methods over traditional methods. This issue also emphasizes these advantages and identifies the challenges of implementing nanomaterials as corrosion protection agents on a wider scale.

### Subtopics:

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

- **Nanomaterials in high temperature corrosion protection**
- **Electrodeposited corrosion-resistive nanostructured coatings**
- **Next Generation Smart Anti-Corrosion Nanostructured Materials**
- **Recent Innovations in Nano container-based self-healing coatings in Construction Industry**
- **Corrosion Behavior of Self- Healing Concretes by applying Nano materials**
- **Development of nano materials for corrosion protection and control of metals and alloys: Current status and Future Perspectives**

### Schedule:

- ✧ Manuscript submission deadline: August 2020
- ✧ Peer Review Due: September 2020
- ✧ Revision Due: October 2020
- ✧ Final manuscripts due: November 2020

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