

**Tentative Outline**  
**Special Issue for Current Organic Chemistry**

*Guest Editor(s): J. Manuel López Romero*

**TITLE: Organic Chemistry Applied to Nanotechnology: from  
Surfaces to Nanoparticles**

**Aims & Scope:**

I propose you a revision of the state of the art in the field nanotechnology-organic chemistry. This a very actual, wide and open area of research that is the joint of many different research fields. Due to this fact, there is not a book or a thematic issue that gives its state of the art. Base on this I believe that this area needs thematic issue like this. I propose to include the study of the organic molecules that are used in the last years for the modification of surfaces (metallic or not: mainly silicon, organic substrates as cellulose, and carbon) and the main carriers that are used in the delivery of actives compounds, from lipid nanoparticles to nanofibres. Moreover I propose to include a chapter focused on the delivery of antitumoral actives.

**Subtopics:**

- Organic Molecules for the Modification of Membranes
- Organic adsorbates for functionalization and nanostructuring of metal surfaces (S, metal oxides)
- Organic molecules for the modification of silicon substrates
- Nanomedical Platform for Drug Delivery in Cancer
- Nanoparticles: preparation and applications
- Targeted delivery of solid lipid nanoparticles by means of surface chemical modification
- Nanofibres
- New Trends and Advances in Nanoparticles coated by Cyclodextrins
- Surface modification, functionalization and bioconjugation of biodegradable polymeric nanoparticles
- Functionalization of silica nanoparticles surface with organic molecules
- Special shapes in nanoparticles
- Metal Nanoparticles Stabilized in Multiphase Systems Mediated by Ionic Liquids
- Biofunctionalized Carbon Nanoparticles
- New Frontier of medicinal chemistry: dendrimer mediated delivery of active compound. Key recent contributions and perspective
- Increased functionality through surface grafting: Polymeric membranes and particles

**Approximate Schedule:**

- Manuscript Submission Deadline: 30/09/2015
- Peer Review Due: 30/10/2015
- Revision Due: Nov. 30/11/2015
- Notification of Acceptance by the Guest Editor: 15/12/2015
- Final Manuscript Due: 31/12/2015