Special Issue

Complex Multifunctional Organic/Inorganic Nanocarriers

Message from the Guest Editors

Nanocarriers have shown great opportunities in the field of targeted drug delivery, especially in cancer therapy. The functionalization of nanomaterials through the simultaneous assembly of chemical moieties has been a strategy of wide interest. Imparting multifunctionality to nanocarriers controls their biological interaction in a desired fashion and enhances the efficacy of therapy and diagnostic protocols. An increasing interest is the design and formulation of complex multifunctional nanocarriers (i.e., nanohybrids; protocells; lipid-coated and/or polymeric-coated nanoparticles). Indeed, they show improved properties such as a high loading capacity, great stability, higher biocompatibility, reduced clearance, and increased targeting flexibility.

This Special Issue aims to attract contributions on all aspects of the chemistry, physico-chemistry, and biological activity of complex multifunctional organic and organic/inorganic nanocarriers. The challenge remains to further explore the range of their chemical and biophysico-chemical features, as well as their potential applications as biomedical (i.e., theranostic, diagnostic, anticancer, antibody, and antioxidant) nanosystems.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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