

## Special Issue

# Recent Trends in Characterization and Application of Nanomaterials in Drug Delivery

### Message from the Guest Editors

In recent decades, nanomaterials have gained interest in the field of drug delivery due to their highly versatile and tunable properties. Nanotechnology is an emerging concept that can be exploited to deliver the drug to various diseases through different routes of administration. Nanomaterials such as polymeric nanocarriers, dendrimers, liposomes, micelles, etc. can be exploited to enhance the therapeutic profile by improving the solubility of the encapsulated drug and its permeability across biological membranes. Moreover, recent trends in the characterization of nanomaterials have attributed to improved biocompatibility, low immunogenicity, and good pharmacokinetics, along with a controlled/sustained drug release profile. This Special Issue aims to highlight the recent advances in drug delivery and therapeutics using up-to-date characterization techniques and functional nanomaterials in targeted drug delivery approaches. In this regard, we would like to invite the scientific community to contribute their expertise to this Special Issue in the form of original research or review articles.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 November 2023)



## Molecules

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As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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