

## Special Issue

# Design and Development of Polymer-Based Drug Carriers for Biomedical Applications

### Message from the Guest Editors

Designing drug carrier systems based on polymeric materials is an increasingly important area of research. These systems affect pharmacological activity by modulating drug release, enhancing drug bioavailability, or delivering medicines to the site of action in a predesigned manner. Ongoing progress in this area will facilitate targeted drug delivery while minimizing side effects and reducing toxicity profiles. Furthermore, evolving drug delivery technologies will enable the development of many pharmaceutical products that will improve patient health and compliance.

We intend this Special Issue to be a compilation of original research articles, reviews, and short communications focusing on multifunctional polymer utilization in the development of advanced drug delivery systems, combined with a variety of manufacturing techniques. In addition, discussions on scientific achievements in the design of new drug delivery systems and the future direction of drug delivery research related to polymers are also welcome.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 February 2026)



## Materials

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*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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