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Drug delivery is a hot topic in biomedical fields, clinic research, materials science, and related fields. A key factor for successful drug delivery is the properties of the materials used as a drug carrier. Various materials for drug delivery, such as biodegradable polymers, inorganic particles, or their composites, have been widely investigated. Additionally, the drug carrier can be designed into different forms, for example, smart micelles, bulk hydrogels, and electrospun fibers. Therefore in this special issue, we aim to highlight the design, synthesis, functionalization, and future applications of advanced polymeric materials for drug delivery. It is sure that this special issue will arouse the attentions of researchers in various fields, such as pharmacy (Chinese traditional medicine may be included), materials science, biomedical research, or even clinics. Manuscripts about advanced materials and technologies for scientific advancement and their applications are all welcomed. Both original research and review articles will be included in this special issue.

Potential topics include but are not limited to the following:

- ▶ Biomedical polymers for drug/gene delivery
- ▶ Smart micelles and capsules for drug delivery
- ▶ Polymer modified inorganic nanoparticles for drug/gene delivery
- ▶ Polymer-based nanotechnologies for cancer diagnosis and therapy
- ▶ Functionalization of polymeric drug carriers
- ▶ Novel technologies or methods used for polymeric drug carriers
- ▶ Progress of modern pharmacy related to polymer-based drug delivery

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/apt/baefp/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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