Special Issue

Functional Polymers in Separation Science

Message from the Guest Editors

The Special Issue is dedicated to exploring the wide-ranging applications of functional polymers in the field of separation science, with a particular focus on their chemical attributes and separation efficiency. Our Special Issue delves into the following key themes:

- Tailored design of functional polymers: the rational design of molecular structures, cross-linking degrees, and functional groups to optimize separation performance.
- Methods for the preparation and synthesis of functional polymers: Introduce innovative synthesis techniques, such as controlled polymerization, self-assembly
- Applications of functional polymers in separation processes: including liquid-phase chromatography, gas-phase chromatography, membrane separation, ion exchange, affinity separation.
- Applications of functional polymers in biotechnology and life sciences: bioprocessing, drug delivery, protein purification, and bioanalysis.
- Applications of functional polymers in environmental and energy fields: wastewater treatment, waste recycling, and energy production.

We look forward to researchers from around the world sharing their latest findings and contributing to this field.

Guest Editors

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Message from the Editor-in-Chief

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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