Special Issue

The Progresses on Polyelectrolytes and Polyelectrolyte Complexes

Message from the Guest Editor

Polyelectrolytes are ubiquitous in many technological applications as well as in biological systems. Despite their importance, however, many of their properties are poorly understood. Our lack of understanding is largely due to the charge of the polyelectrolyte, which causes long-ranging electrostatic interactions and thus considerably complicates the development of more accurate models and theories. Moreover, the presence of other components as well as the influence of external fields leads to a multitude of interesting effects and complex mechanisms that massively influence the dynamics and the structure of polyelectrolytes. This Special Issue of *Molecules* is intended to provide an up-to-date overview of new results and the current state of knowledge in polyelectrolyte research. The corresponding experimental, theoretical, and numerical research results can cover a broad range of topics from applications of polyelectrolytes in electrochemical energy storage systems to studies of DNA structures.

Guest Editor

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Message from the Editor-in-Chief

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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