



Conjugated Polymers for Organic Electronics and Bioelectronics

Guest Editor:

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Message from the Guest Editor

This Special Issue is concerned with conjugated polymer science and its application in organic electronics and bioelectronics. Here, bioelectronics is an emerging interdisciplinary field, operating at the interface between biology and organic semiconductor electronics. Importantly, when a conjugated polymer contains ionic charges on the backbone, so-called conjugated polyelectrolyte, both ionic and electronic conductions become permissible, which is one material of interest in this issue. Furthermore, when a single conjugated molecule contains two or more conjugated polymers, known as a conjugated block copolymer, the covalent linkages in the polymer-polymer blocks do not allow macrophase separation but microphase separation. Hence, through this separation and accompanying self-assembly, interesting microstructures are generated which may include spherical domains, cylindrical micelles, double gyroid, and lamellae. In general, the phase behaviour of conjugated polymer solutions and blends are topics of interests with the aforementioned state-of-the-art technical applications of conjugated polymers.





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