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Bionic Smart Polymers

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Message from the Guest Editor

Bionic smart polymers are a class of functional polymers prepared with a biologically inspired design method that have biomimetic properties, including stimuli-responsivity, self-healing, self-cleaning, molecular recognition, and biocompatibility. In recent years, there has been tremendous interest in these polymers because of their great potential for use in a wide range of valuable applications, such as sensors, actuators, smart wearable devices, self-cleaning coatings, and biomedical areas (e.g., drug delivery nanocarriers, non-invasive surgery and medical diagnosis devices, and tissue engineering).

With this Special Issue, I intend to provide a platform for authors to demonstrate their recent research progress in this rapidly developing area. I believe this Special Issue will be of interest to a broad range of readers working in the fields of polymer chemistry, materials science, biomedical area, and engineering technology. Prospective authors are kindly encouraged to contribute research articles on the design, preparation, and applications of new bionic smart polymers, as well as reviews of related topics.

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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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