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Advances in Biomimetic Materials

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Message from the Guest Editors

The course of life in living creatures, ranging from single cells to multicellular organisms, relies on complicated but ordered biological processes, including biochemical reaction networks, inter or intra-cellular communications, and information exchange with the external environment. Drawing inspiration from the elegant rules evolved by Nature, scientists from different fields have started to use biomimicries either to decipher the mystery behind minimized complexity or to offer higher performance structures with lower energy input and better cycling. For instance, driven by the curiosity concerning the origin of life, synthetic protocells or artificial cells have been constructed with synthetic materials to disclose how cells emerged on earth from simple building blocks. In addition, the intriguing informational communication between cells and body systems have spurred the development of advanced biomimetic nanomedicines to delivery cargoes in a way mimicking natural cells. Beyond these examples, extensive research is been carried out to introduce a wide variety of biomimetic materials with advanced properties for both fundamental studies and engineering applications.

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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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