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Design, Modifications and Antibacterial Application of Intelligent Polymer Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

During the last several decades, the use of antibiotics has taken a significant step toward preventing the propagation of bacterial pathogens. The development of intelligent materials—also known as smart materials—with multiple antibacterial components are of great importance for both fundamental research and practical applications. However, this has proven to be extremely challenging. Based on both the molecular and formulation design, polymeric intelligent materials could be specifically adapted for the demands of antimicrobial applications. Polymers are chemically stable and can be chemically and physically modified to give them some different characteristics to display antimicrobial activity.

Therefore, this Special Issue of Molecules will serve as a platform for analyzing the recent advances in the Design, Modifications and Antibacterial Application of Intelligent Polymer Materials. I kindly invite you to submit contributions in the form of short communications, original research articles, and review papers.

Prof. Dr. Fusun Ozer Guest Editor





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Editor-in-Chief

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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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