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DNA Nanostructures at Surfaces

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Message from the Guest Editors

Nowadays, DNA nanostructures are routinely synthesized in numerous labs around the world and applied in highly diverse fields ranging from biomedicine to nanoelectronics to biosensing to materials science. In many of these applications, the interaction of the DNA nanostructures with natural and artificial surfaces is of utmost importance. Prominent examples include the controlled adsorption of DNA nanostructures at the surfaces of silicon wafers for molecular lithography, their covalent coupling to the metal electrodes of biosensors, their specific binding to cell membranes for targeted drug delivery, and their integration into the lipid bilayers of liposomes to act as artificial ion channels.

This Special Issue will cover all aspects of DNA nanostructures interacting with all kinds of natural and artificial surfaces, including solid–liquid, solid–vapor, solid–vacuum, lipid–liquid, and liquid–vapor interfaces. We encourage submissions dealing with the fundamental mechanisms of these interactions as well as with applications of DNA nanostructures at surfaces. Full research articles and reviews covering these topics are welcome.



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Special Issue



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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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