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MOLECULAR CONTROL OF INTERFACES: NATURE-INSPIRED 2D MICROSTRUCTURES

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To realize the integration of biological and non-biological systems at the nano- or micro-level, various fundamental researches should be established, such as study on the interactions between biological and non-biological systems, chemical and physical modifications at the substrate surface (including pattern generations or growth of cells), controls over specific bioactivity and biomimetic performance, and integration in devices with new potential applications, and health and environmental risks. The presentation discusses the recent research progresses done by my laboratory focusing on the generation of 2-dimensional microstructures, which is inspired by nature, as well as fundamental studies on surface chemistry.

