

Design, Structure, and Properties of Micro/Nano Structured Multi-Responsive Surfaces

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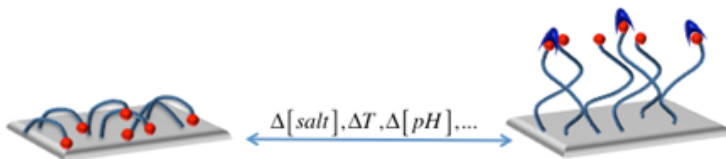
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Structured responsive surfaces have properties and responsiveness that are contingent on the chemical composition, size and shape of structure, elasticity, surface interactions. However, responsive coatings are generally suffering from major shortcomings such as lack of responsiveness selectivity and reversibility, poor environmental stability and limited understanding of the structure–function relationship, which are all critical to design reliable rules for building multifunctional surfaces. Experimental studies on surface properties and interactions of different nanostructured responsive surfaces (polymer brushes, 2D nanogel arrays) carried out using the Surface Forces Apparatus and similar molecular techniques will be presented in order to elucidate the responsiveness mechanism and the structure–property relationship of such smart surfaces.

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21/01/2016, 14h, Amphi Godet