

Superomniphobic anti-bacterial and anti-fungal surfaces (Technion)**code:** CHM-1414

One of the most fascinating properties of materials in nature is the superhydrophobic and self-cleaning capabilities of different insects and plant surfaces. Based on these phenomena, bioinspired, "nanoengineered" surfaces (NES) have been produced for a myriad of commercial applications ranging from biomedical applications and electronics to textile and optics. This invention presents a method for the production of superomniphobic (superhydrophobic and superoleophobic) surfaces that also renders the surface anti-bacterial and anti-fungal by preventing biofilm growth. The method to form such surfaces utilizes a simple, versatile and low cost one-step production scheme.

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