

SUPERHYDROPHILIC AND WATER-CAPTURING SURFACES

ABSTRACT

A coated substrate includes a substrate and a coating containing a water insoluble polymer and a water soluble polymer, the two polymers, due to different water affinity, forming a nanosegregant on the substrate. Also disclosed are a method of preparing the above-described coated substrate and the use of this coated substrate in a solid-state supercapacitor.

(FIG. 1)