The potential for micro- and nanoscale technology in harvesting water from the atmosphere

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A fog net is a promising and low-cost water harvesting system that collects fog droplets as they impact onto the solid net structure. Despite that most of the world is anticipated to be under severe water stress by year 2030, and the urgent need for efficient water harvesting solutions in arid regions, the fog net technology is still in its infancy. In this talk, I will give an overview of where we today stand with respect to the development of fog nets as a viable solution for water harvesting. I will also discuss why I believe a combination of bio-mimetic design, nano- and microtechnology and material properties can provide us with design parameters that in the future can lead to a new class of fog nets, which may outperform their conventional counterpart.