

ADVANCED FUNCTIONAL MATERIALS

BIOMIMETIC SURFACES

Biomimetic PDMS micro-cones resembling trichomes of plants are generated by ferrofluid-molding methods to understand the influence of geometry on wettability. In the study by Z.-H. Wei and co-workers on page 2670, ferrofluid droplets are arranged and their shape can be changed from right cones into oblique cones by tilting the external magnetic field. Followed by hard molds made with UV-curable Tri propylene glycol diacrylate (TPGDA), PDMS micro-cones with different inclination angle (θ) are subsequently generated.