ADVANCED FUNCTIONAL MATERIALS SUPEROLEOPHOBIC MATERIALS A single-step and single-component bioinspired method for the fabrication of hierarchical superoleophobic surfaces is presented by B. Pokroy and co-workers on page 4572. Fabrication via the thermal deposition of fluorinated wax results in crystalline, oriented, 3D hierarchical structures with high surface roughness and re-entrant curvature. The surfaces exhibit superhydrophobic and superoleophobic qualities combined with exceptional stability, making them applicable to a wide range of fields. WILEY-VCH