

ADVANCED FUNCTIONAL MATERIALS

ELECTRONIC SKIN

Flexible electronic skins (e-skins) with static and dynamic tactile sensing capabilities are demonstrated on page 2841 by H. Ko and co-workers based on the interlocked geometry of hierarchical polydimethylsiloxane (PDMS) micropillar arrays decorated with ZnO nanowire forests. While the e-skin in a piezoresistive mode enables a static pressure detection with high sensitivity, the piezoelectric e-skin mode permits the dynamic sensing of high frequency vibrations.

