ADVANCED FUNCTIONAL MATERIALS

BIOMEDICAL SENSORS

J. A. Rogers and co-workers present an ultrathin, skin-like device for the wireless measurement of the dielectric properties and deformations of the skin. The construction exploits LC resonators with capacitive electrodes that are responsive to skin properties. The material designs offer the potential for compact, epidermal, wireless systems in applications ranging from dermatology and cosmetology to health/wellness monitoring. The image shows the application of lotion onto a skin region that supports a representative device.

WILEY-VCH