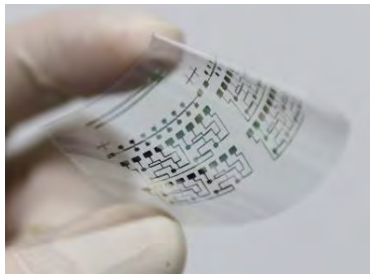


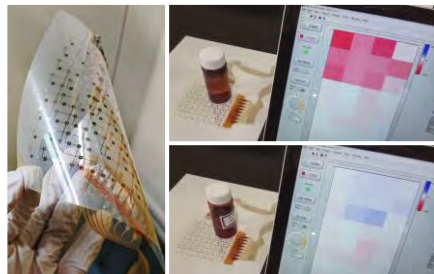
Thin, Light, and Flexible Sensor Sheets

Professor Hiroyuki Matsui

sweat sensor



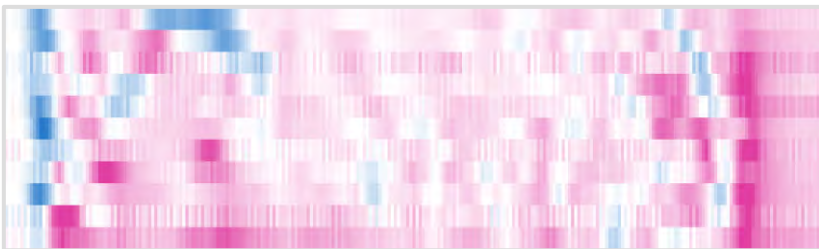
temperature sensor



2 μm thick proximity sensor



electrostatic imaging



Content :

We develop thin, light, flexible, and cost-efficient sensor systems by using organic semiconductors and digital printing. Such sensors are fabricated by printing organic semiconductor inks on flexible plastic substrates. So far, we have developed sweat biosensor patches for wearable health monitoring (Na^+ , K^+ , lactate, and glucose), temperature sensors, ultraflexible proximity sensors, and electrostatic imaging system.

Appealing point :

In addition to sensor devices, we also develop organic functional materials using data science and theoretical approaches. Offers for joint research are always welcome.

Yamagata University, Graduate School of Organic Materials Science
Research Interest: organic electronics, applied physics

E-mail : h-matsui@yz.yamagata-u.ac.jp

Tel : +81-238-26-3594

HP : <http://matsui-lab.yz.yamagata-u.ac.jp/>

