Development of Soft Sensing Devices Using Organic Electronics

Research Professor Daisuke Kumaki



Content:

In the IoT society, flexible and stretchable soft sensors are expected to be used in a variety of fields, including healthcare and robotics, as key devices that connect people and information. Environmentally friendly printing processes is expected to be a low-carbon manufacturing technology helping a sustainable society.

Our research group has technologies such as design and development for sensor devices and integrated circuits, fabrication methods using printing processes, signal processing and analysis technology for sensing data, and integration of these technologies into product-based prototyping.

Appealing point:

We are conducting verification tests in collaboration with the Faculty of Medicine and the Faculty of Education, Art and Science in Yamagata University. Through joint research with companies and medical institutions, we are developing soft sensing devices for medical applications.

Research Field: Organic Electronics

Specialty: Organic electronic materials,

Printing process, Soft sensing devices

E-mail: d_kumaki@yz.yamagata-u.ac.jp

Tel: +81-238-26-3290 Fax:+81-238-26-3788

HP: https://tokitolabo.yz.yamagata-u.ac.jp/

