

Theme: Electronic Material

- Sub Theme: Soft robotics

Soft robotics is a new design paradigm for overcoming and supplementing the limitation of the traditional rigid robot. Soft functional materials can deliver versatile, adaptable, and safe robotic systems for close collaboration with humans. However, it is necessary to develop fast responsive, durable, and easily controlled materials with soft electrodes for various applications.

The topics we pursue through this GRO are as follows:

- Soft elastomeric materials for sensor and actuator
- Stimuli-responsive elastomer composite
- Liquid metal alloys for soft actuation, sensing, and actuation control

Application: Soft sensor, soft actuator, etc.

※ *The topics are not limited to the above examples and the participants are encouraged to propose the original idea.*

※ Funding: Up to USD 150,000 per year