



Motivation

Controlling surface properties to obtain highly reliable MEMS devices



Originality

Electrodeposition of organic-inorganic micro composite on MEMS, that provides insulation and water-repellency MEMS device surfaces, protecting them from sticking



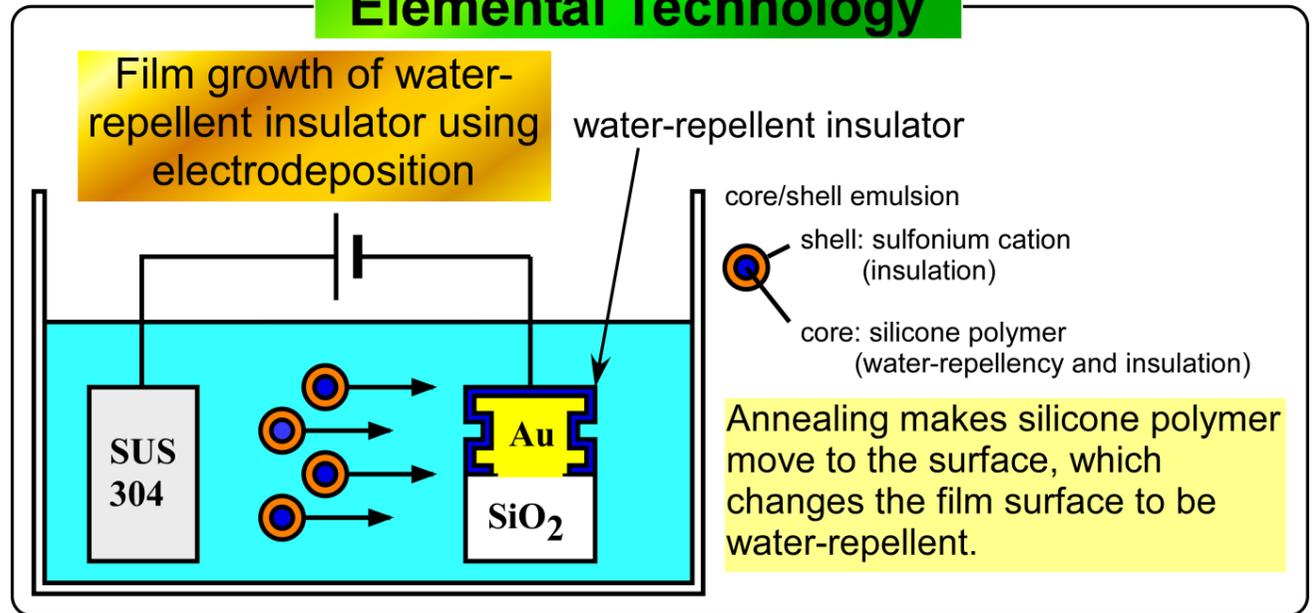
Impact

- High-reliable MEMS devices will be realized for optical and wireless communication, and energy harvesting.

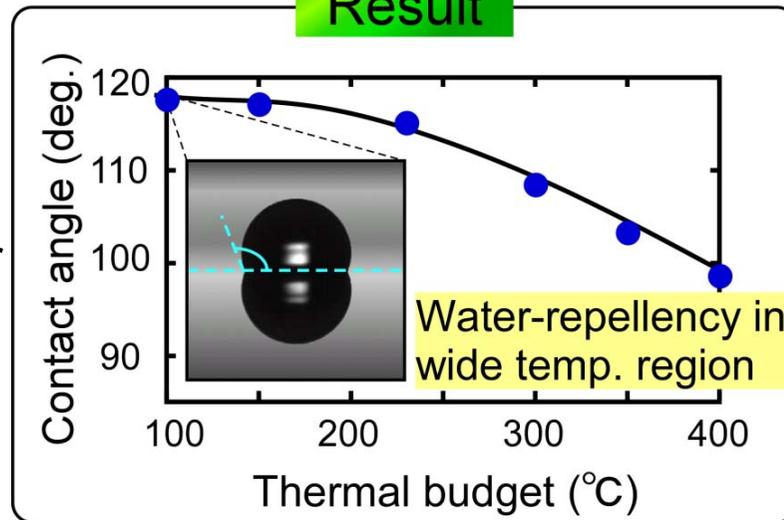
- Micro- and nano-composite material of organic/inorganic compounds breaks ground for a novel surface modification method.



Elemental Technology



Result



Vibrational MEMS device

