
Symposium (Oral) | Symposium | Sensor-Integration Technologies for Sensor Fusion era

[13p-S202-1~9]Sensor-Integration Technologies for Sensor Fusion era

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Mon. Sep 13, 2021 1:30 PM - 5:40 PM S202 (Oral)

△ : Presentation by Applicant for JSAP Young Scientists Presentation Award

▲ : English Presentation

▼ : Both of Above

No Mark : None of Above

1:35 PM - 2:05 PM

[13p-S202-2][Highlight]Highly sensitive and small sized smell sensor module using film alk acoustic resonator

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Keywords:smell sensor, film bulk acoustic resonator, temperature/humidity compensation

In order to achieve a highly sensitive smell sensor, we are developing a Film bulk acoustic resonator (FBAR) as transducers. We successfully developed the small sized smell sensor modules using a Complementary Metal Oxide Semiconductor (CMOS) based oscillation/detection circuit. We will also report smell identification using the multiple sensor array with various kinds of sensing materials and our novel temperature/humidity compensation method.