

## Supplemental material

### Screen-Printed Three-Electrode-Type Sticker Device with Accurate Liquid Junction-Type Reference Electrode

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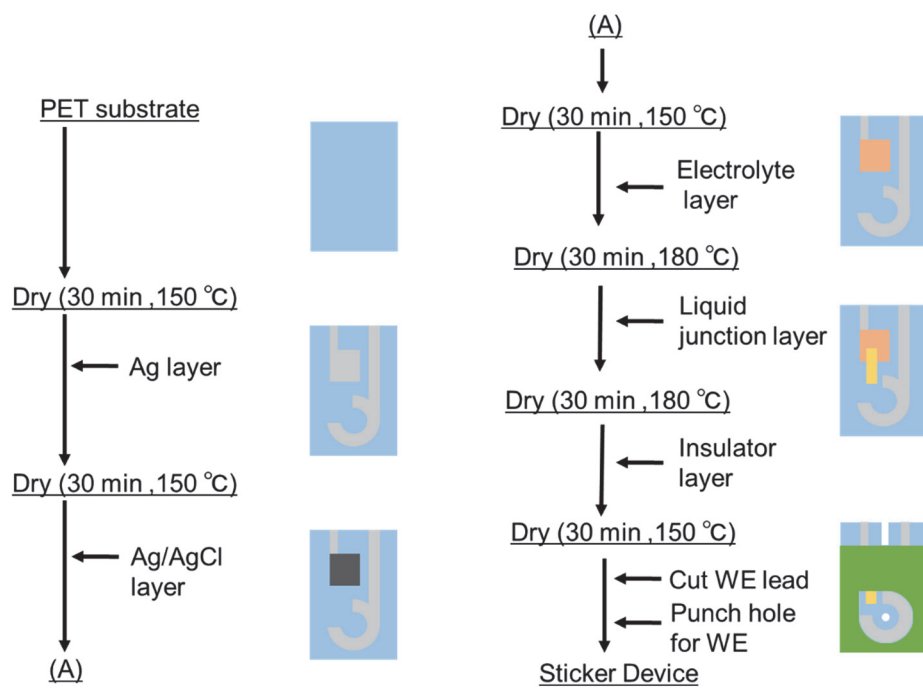
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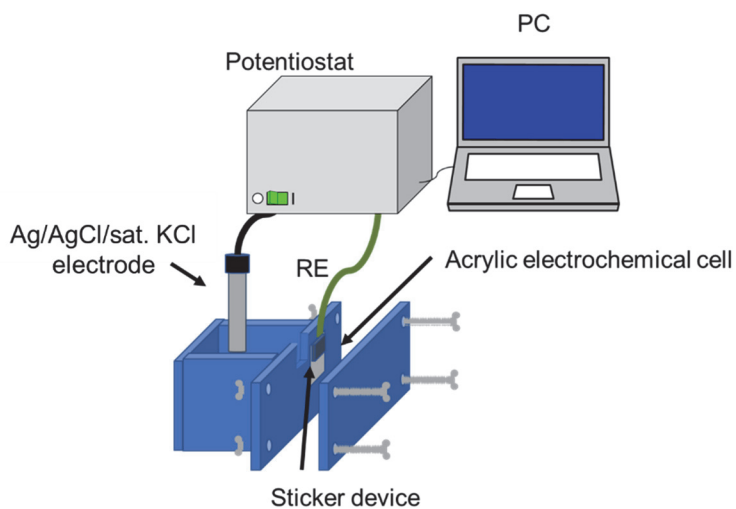
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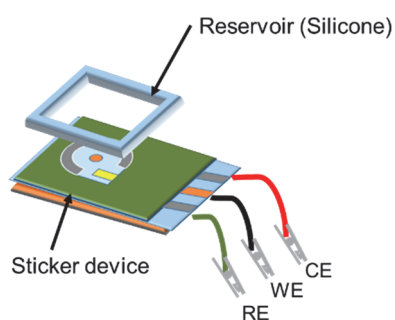


**Fig. S1** Fabrication processes of the sticker device.

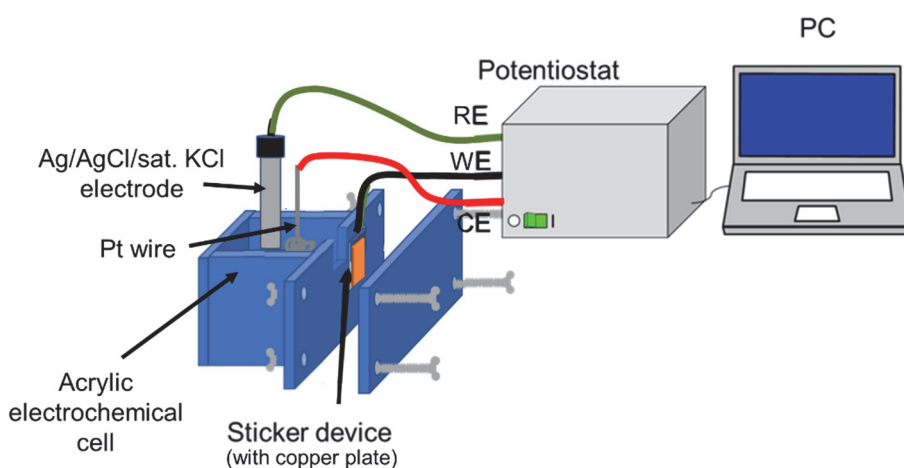
(a)



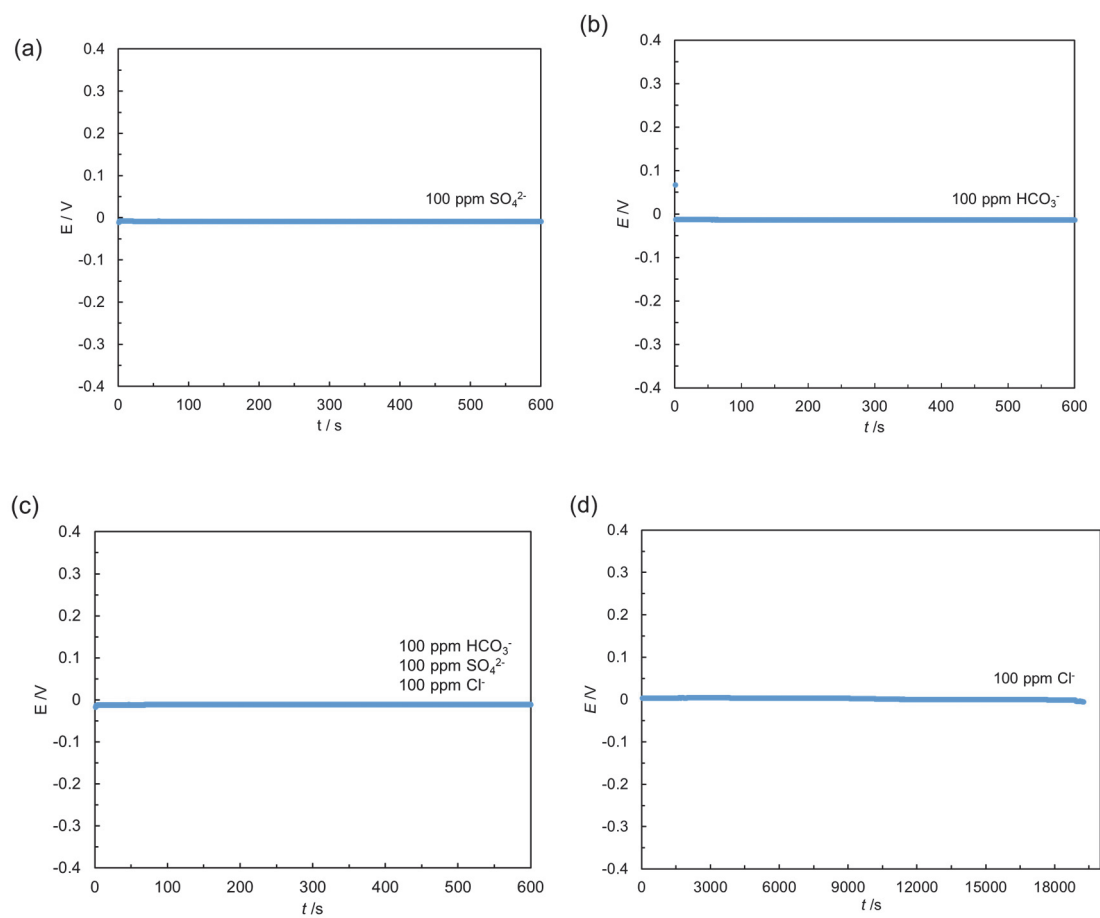
(b)



(c)



**Fig. S2** Experimental set-ups for (a) open-circuit potential measurement for evaluation of the reference electrode. (b) measurements using sticker device. (c) conventional three-electrode measurement using the working electrode of the sticker device.



**Fig. S3** Change in time against the potential of the reference electrode on the sticker device in a solution containing different anions: (a) in the presence of 100 ppm sulfate ions. (b) in the presence of 100 ppm bicarbonate ions. (c) in the presence of 100 ppm chloride, sulfate, and bicarbonate ions. (d) in the presence of 100 ppm chloride ions over an extended period of time.