Electronic Supplementary Information

A Simple Method for Fabrication of Microfluidic Paper-Based

Analytical Devices and on-device Fluid Control with a Portable

Corona Generator

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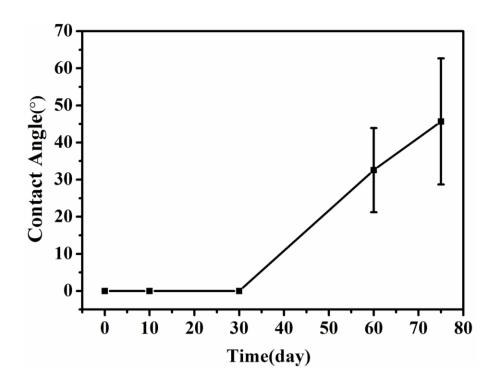


Fig. S-1 Water contact angles measured on the corona-treated OTS-paper sheets after they had been stored in a dryer for varied times (OTS-paper sheet size: 2×3 cm², corona treated time: 60 s, n=6)

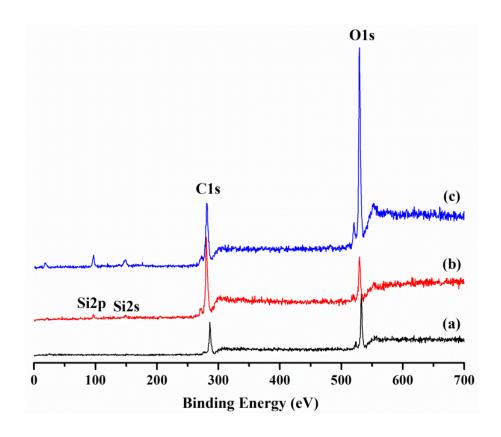


Fig. S-2 XPS spectra of (a) native paper, (b) OTS-paper and (c) corona treated OTS-paper.

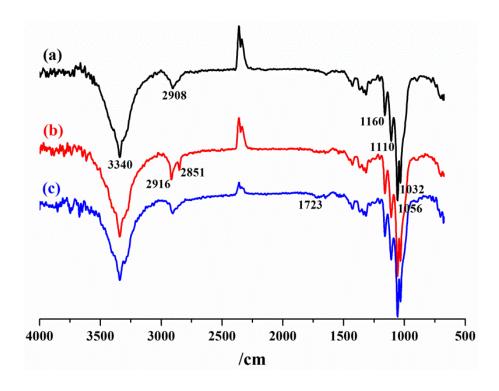


Fig. S-3 ATR-FT-IR spectra of (a) native paper, (b) OTS-paper and (c) corona treated OTS-paper.

Supplementary Video

A movie recording the whole process of programmed acid-base reaction.