

ELECTRONIC SUPPLEMENTARY INFORMATION

Facile Fabrication of a Rigid and Chemical Resistant Micromixer System from Photocurable Inorganic Polymer by Static Liquid Photolithography (SLP)

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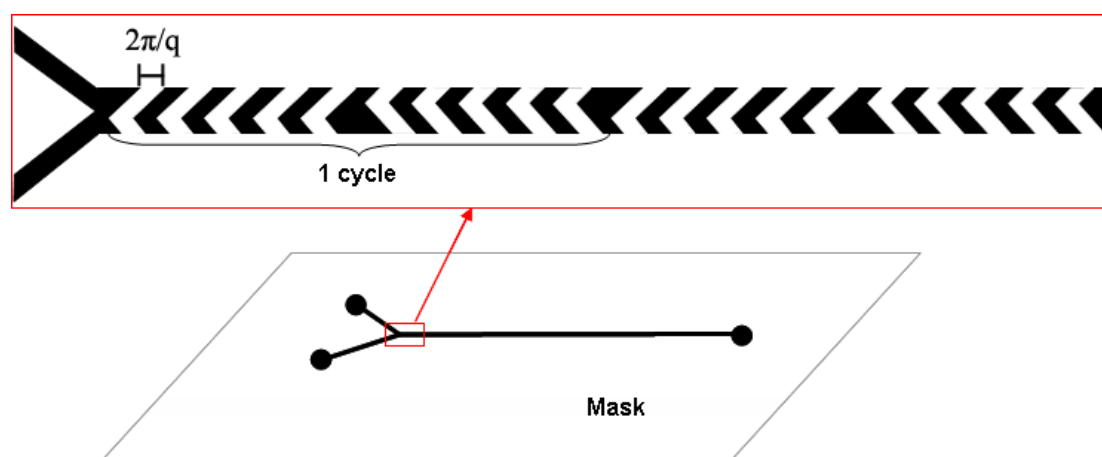


Figure S1 Schematic images of plastic mask for fabricating the herringbone micromixer structure in a main channel of width $400\ \mu\text{m}$, and 10 ridges per cycle with principal wave vector of $q = 2\pi/200\ \mu\text{m}^{-1}$. The fraction of the width of the channel occupied by the wide arms of the herringbones is $2/3$; the inclination of the arms of the herringbone structure to the channel sidewalls is 45° ; two inlet channels of $0.6\ \text{cm}$ in length have 45° obliquity with respect to the main channel.

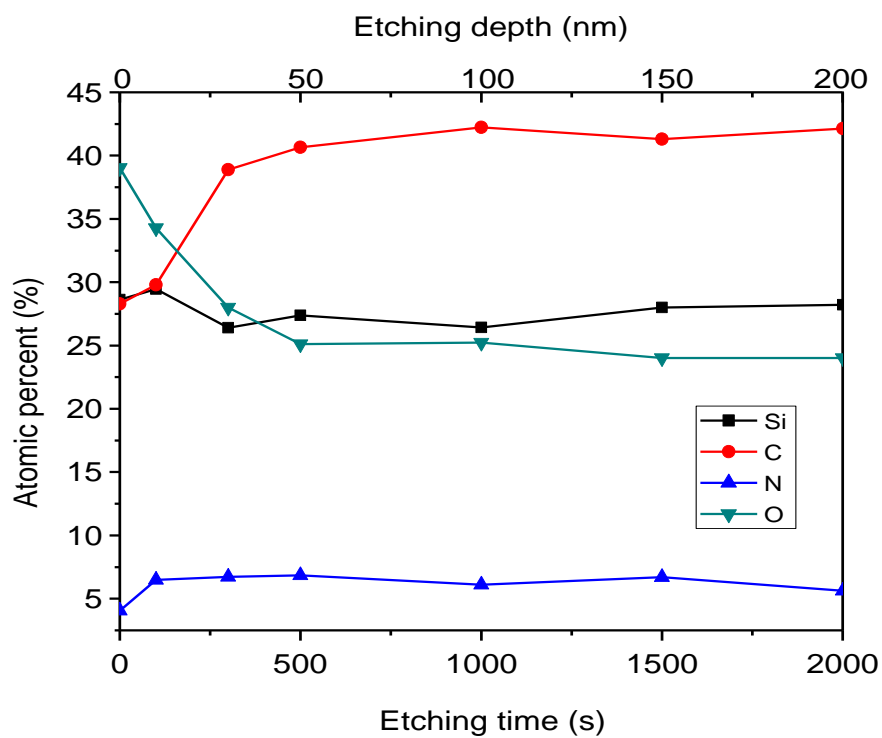


Figure S2 XPS depth profile of hydrolyzed MPVSZ film sample. Etching depth was calibrated with silica as a reference material.