## Supporting information

## Two dimensional inverse opal hydrogel for pH sensing

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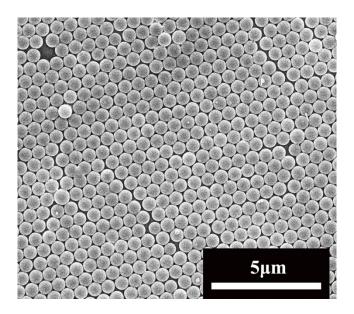


Figure 1. SEM image of the PS 2D colloidal array template

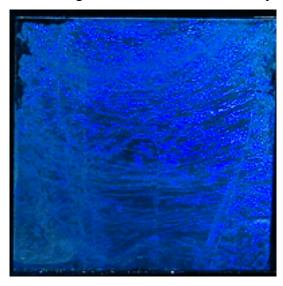


Figure 2. Diffraction color of the 2D PS colloidal array template