

Supplementary Information

Fabrication of Free-Standing Non-Close-Packed Opal Films

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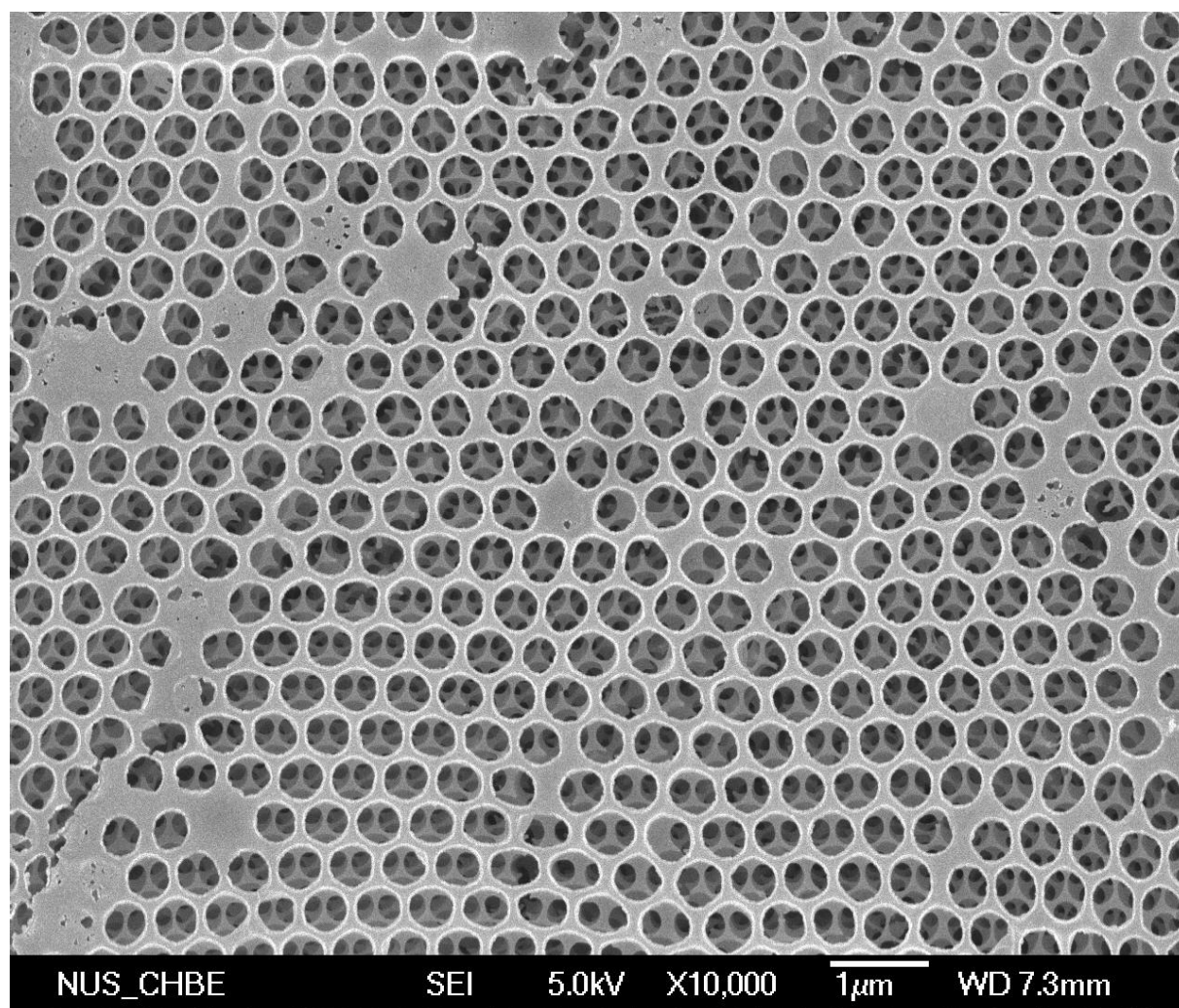


Fig. S1 SEM top view of the inverse silica inverse opal replicated from a close-packed opal of 569-nm PS spheres.

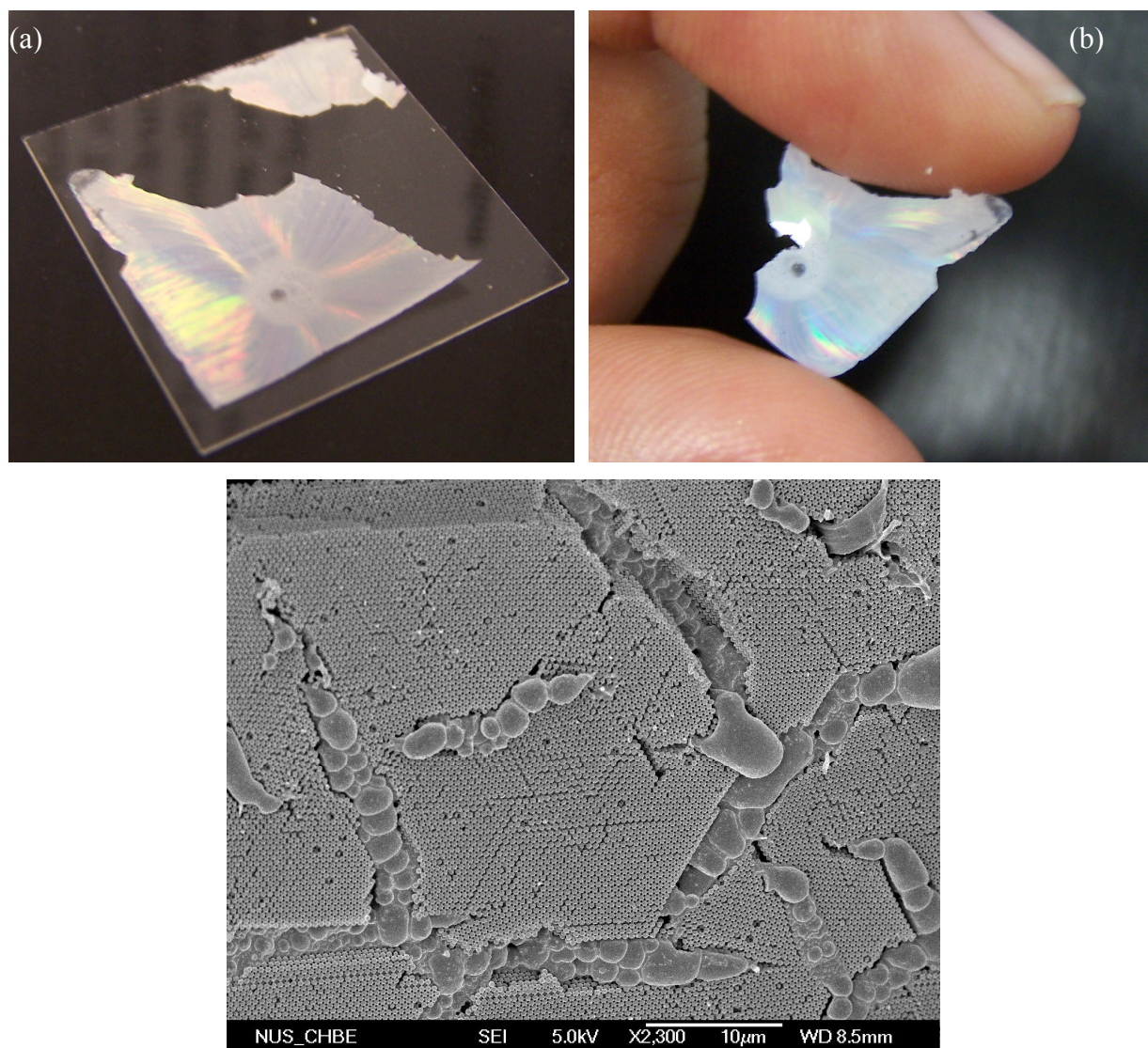


Fig. S2 (a, b) A photograph (taken with a Kodak DX7590) of NCPO-2 after being cut for characterization (the glass substrate was $2.2 \times 2.2 \text{ cm}^2$). (c) An FESEM image of NCPO-2.

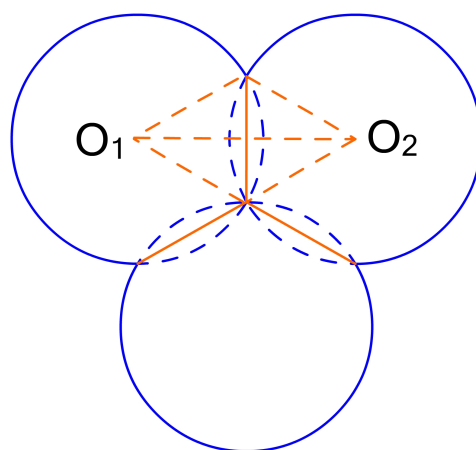


Fig. S3 A scheme showing the largest possible connection size that can be achieved before the pore among three adjacent spheres is closed up.