

Supplementary Information

Tuning Disorder in Structurally Colored Bioinspired Photonic Glasses

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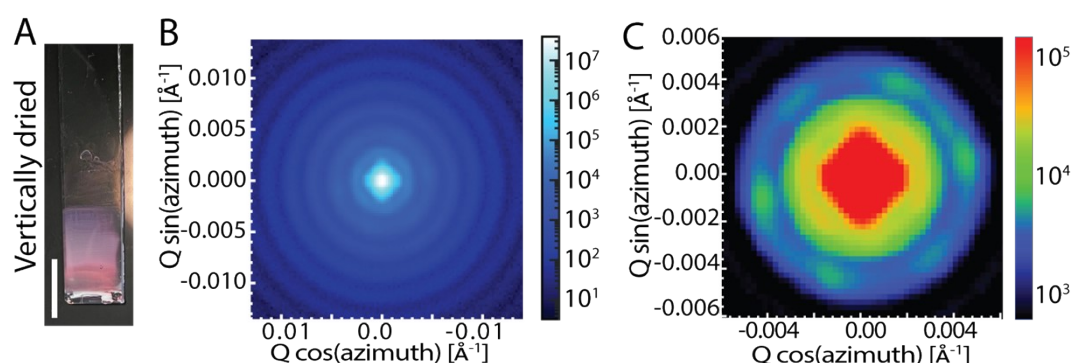


Figure S1. Scattering characterization of an ordered colloidal system obtained via vertical drying. Scale bar is 1 cm A) Photograph of a sample vertically dried from a 1 wt% dispersion of PS particles of 270 nm size. B) Small-Angle-X-Ray-Scattering (SAXS) patterns of the vertically dried sample. C) SAXS patterns of the same sample in (B) depicting the first ring of the pattern to highlight the inhomogeneity of the scattering ring pattern.

A dispersion of 0.1 wt% PS particles suspended in an ethanol: water mixture with 3:1 ratio was placed in an oven at 60 °C. The dispersion was let to evaporate in an open vial while having a glass slide inserted. The particles during evaporation deposited on the slide in a highly ordered fashion as described by Jiang et al.¹

References:

1. Jiang, P., Bertone, J. F., Hwang, K. S. & Colvin, V. L. Single-Crystal Colloidal Multilayers of Controlled Thickness. *Chem. Mater.* **11**, 2132–2140 (1999).