

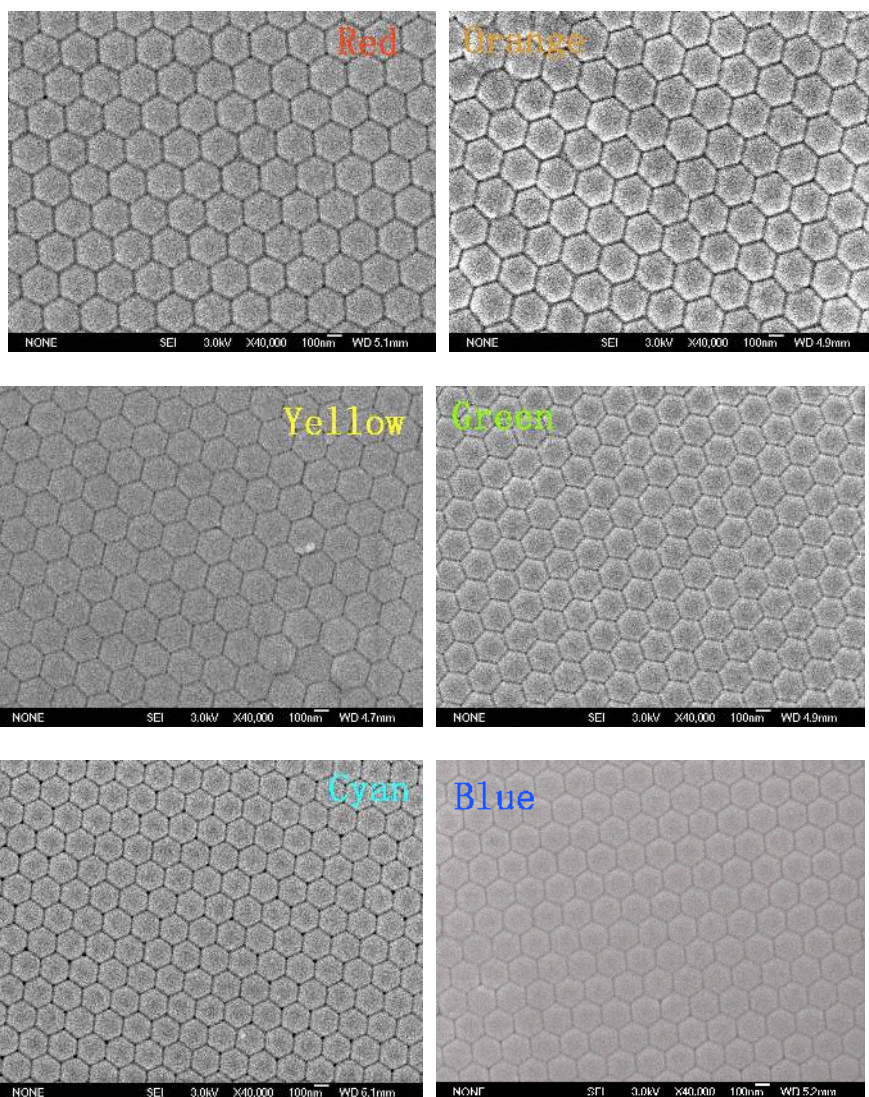
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Simple Fabrication of Full Color Colloidal Crystal Films with Tough Mechanical Strength

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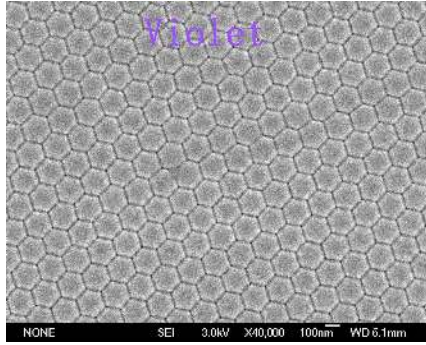


Figure S1. SEM images of the colloidal crystal films with fully dense FCC structure assembled from Poly(St-MMA-AA) spheres with various diameters of 280, 270, 244, 216, 204, 191 and 173 nm, respectively. The corresponding colors are noted on the images, the scale bar is 100 nm.

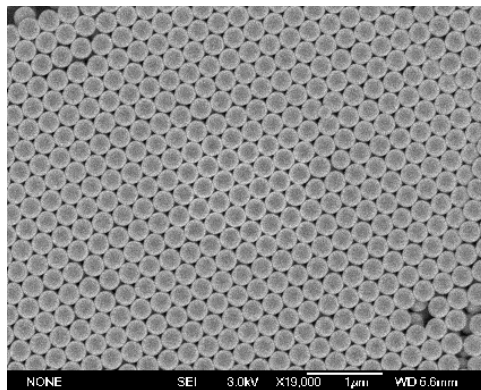


Figure S2. SEM image of PS colloidal crystal film with general FCC structure (with void among the spheres) assembled from PS spheres with diameters of 280 nm.

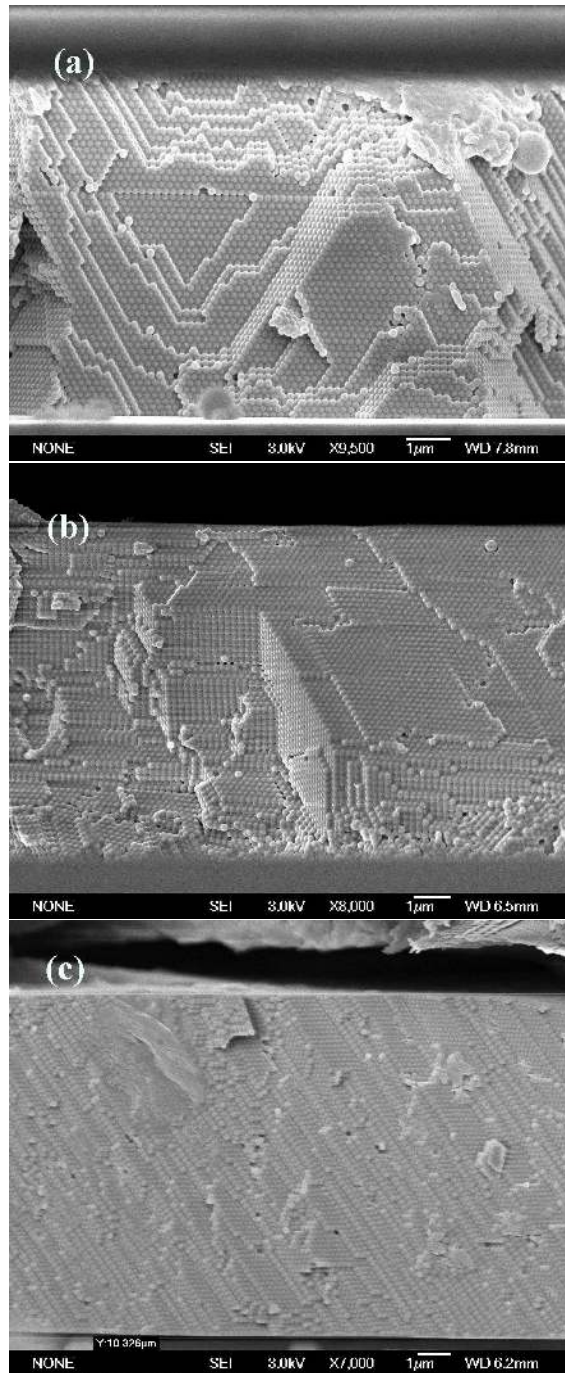


Figure S3. SEM images of cross-section of colloidal crystal films. a) [111] plane; b) [100] plane; c) [110] plane, the scale bar is 1 μm.

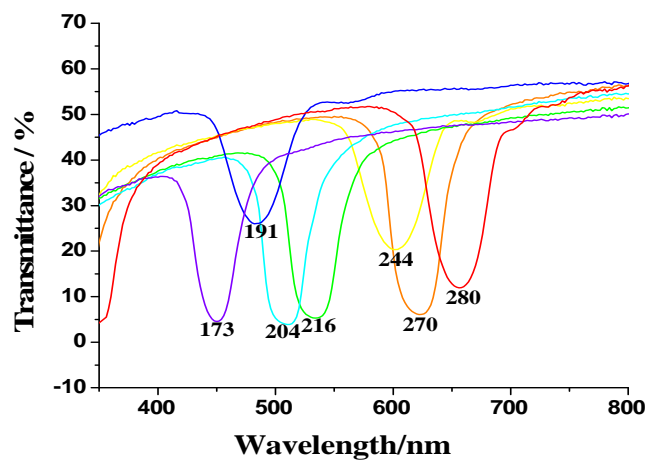


Figure S4. Transmittance spectra of the films with different sphere diameters of 280, 270, 244, 216, 204, 191 and 173 nm, the corresponding diffraction peak positions are at 654, 622, 600, 533, 507, 485 and 445 nm, respectively.