Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C. This journal is © The Royal Society of Chemistry 2021

Supporting Information

Color brightness modulation of responsive photonic liquid for multicolored electrochromic displays

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This PDF includes: Figure S1 to S5 Table S1

Legends for Video S1 and Video S2



Figure S1. Reflection spectra of SCD with treated (a) and untreated ITO (b) electrodes at various viewing angles.



Figure S2. (a)Reflectance spectra of SCD with various time of O₂ plasma treatment.(b)Reflectance spectra of SCD with various time of PDDA soaking treatment.



Figure S3. AFM topographic images ITO electrode treated for different time.



Figure S4. Optical microscopic images of SCD with various NPs concentration.



Figure S5. Reflection spectra of SCD with treated (a) and untreated ITO (b) electrodes at different voltages.

	Blue (30 wt%)		Green (25 wt%)		Red (20 wt%)	
	Untreated	Treated	Untreated	Treated	Untreated	Treated
R (%)	30.8	66.4	37.8	80.8	46.8	96.2
FWHM	70.6	28.1	58.7	33.6	61.3	38.6

 Table S1. Reflectance and FWHM of SCD with various mass fraction liquid colloidal crystal

 and untreated/treated ITO glass

Legends for the supplementary videos

Video S1 Dynamic modulation of patterned SCD with enhanced brightness

Video S2 Smart optical display with local independent control