

## Supplementary Information

### The effect of TiO<sub>2</sub> interface layer on electrochromic properties of WO<sub>3</sub> based devices

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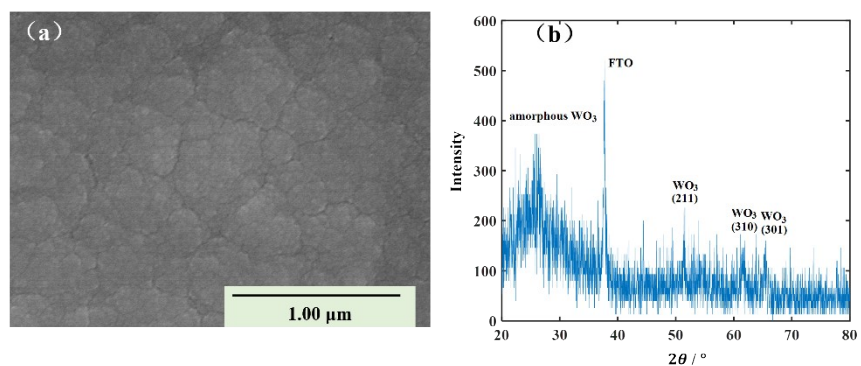


Figure S1. (a) SEM micrograph of WO<sub>3</sub>/TiO<sub>2</sub>\_2 min; (b) XRD pattern of WO<sub>3</sub>/TiO<sub>2</sub>\_2 min

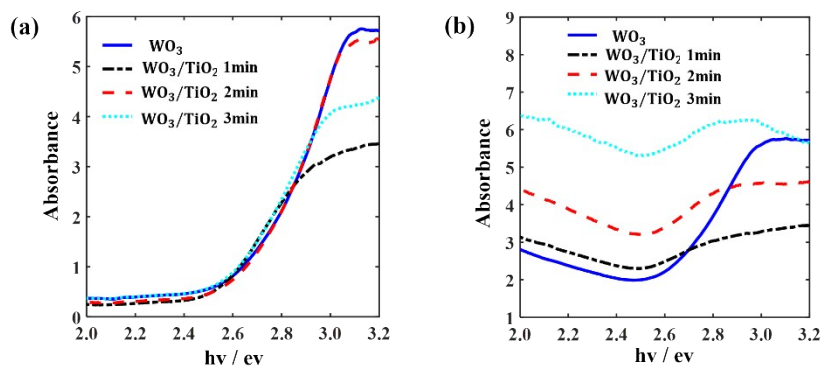


Figure S2. The absorption spectra near of the energy band edge of these EC films in the bleached (a) and colored states (b)

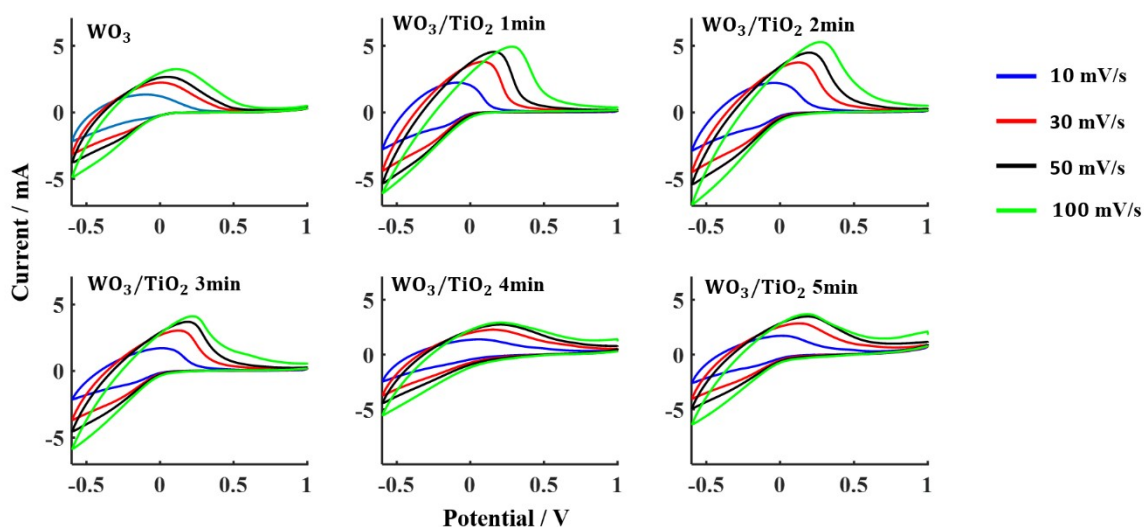


Figure S3. Cyclic voltammograms over the potential range of from  $-0.6$  V to  $1.0$  V at a scan rate of  $10$  mV/s,  $30$  mV/s,  $50$  mV/s, and  $100$  mV/s for EC devices based on different electrochromic films

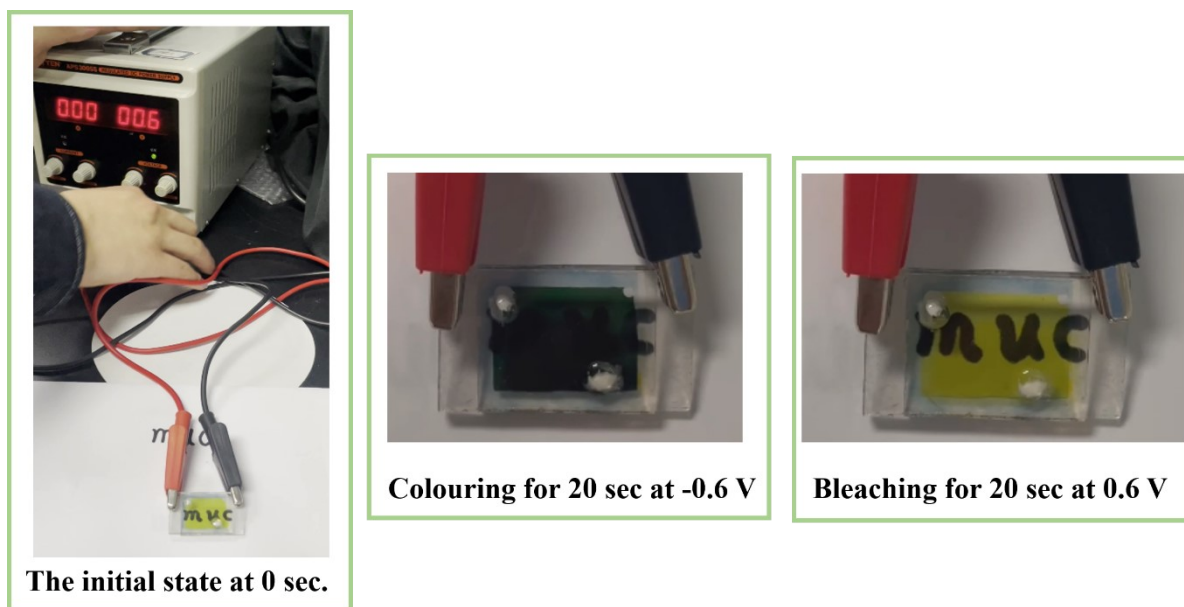


Figure S4. Photos of the EC device based on  $\text{WO}_3/\text{TiO}_2$ \_2min film in the initial state, coloured state and bleached state.

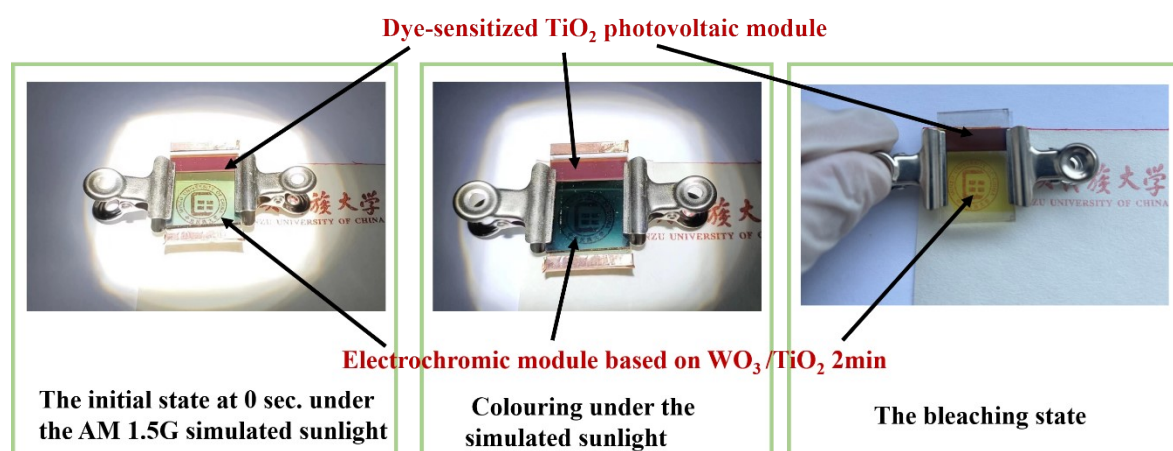


Figure S5. Photos of the PEC device in the initial state, coloured state and bleached state.