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Fig. S1 Schematic representation of the voltage step method.



Fig. S2 Change in the transmittance at 700 nm (top) and cyclic voltammogram in a two-electrode system (bottom) of the EC device containing 150 mM of Ag^+ ion.

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Fig. S3 Photographs of the EC device containing 150 mM of Ag⁺ ion taken on a lightbox during V_2 applications. Voltage-application sequences were $V_1 = -3.4$, or -4.4 V, $t_1 = 10$ ms; $V_2 = -1.6$ V, $t_2 = 20$ s.



Fig. S4 Change in currents during V_1 application for 10 mM (-4.4 V) and 50 mM (-4.0 V) devices. The black line shows the 10 mM device and the red line shows the 50 mM device.