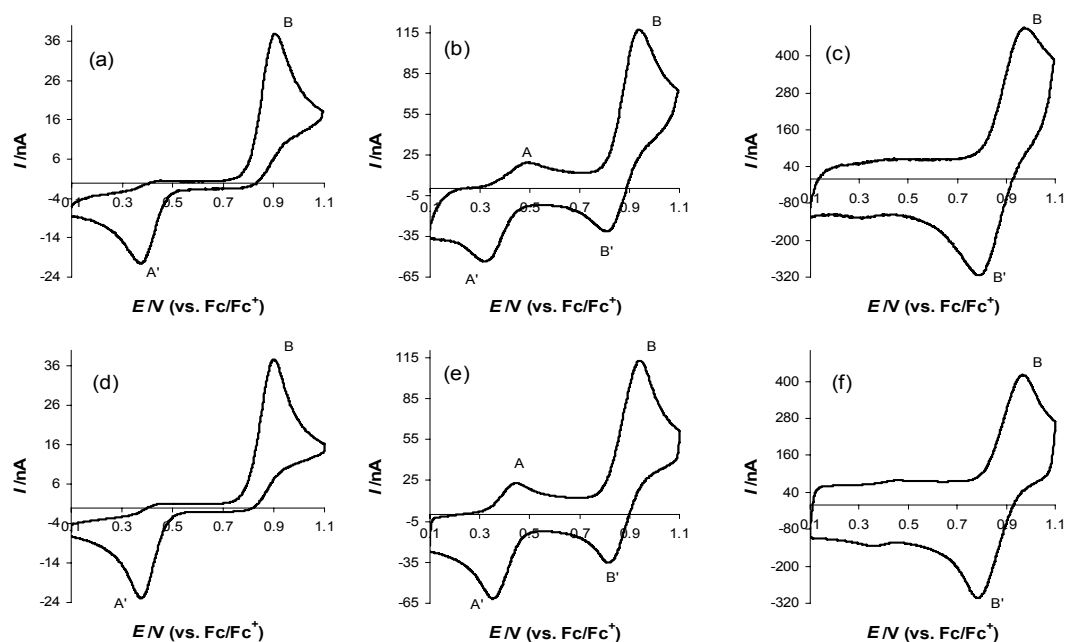


## Supporting information

# A bistable electrochromic material based on a hysteretic molecular switch immobilised on nanoparticulate metal oxide

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**Fig. S1** CV of **2** in acetonitrile solution (2<sup>nd</sup> scan) recorded at scan rates of 10, 100 and 1000 V s<sup>-1</sup> (a-c) and the corresponding digital simulations (d-f) with the parameters from Scheme 2 and  $K_1 (= k_1/k_{-1}) = 7 \times 10^1$ ,  $K_2 (= k_2/k_{-2}) = 8.5 \times 10^5$ .

**Table S1**  $I_{B'}/I_{A'}$  ratios calculated from baseline corrected values for  $I_{B'}$  and  $I_{A'}$  from the CV of **2**-modified Sb:SnO<sub>2</sub>-coated FTO glass over a range of scan rates.

$v$ [V s <sup>-1</sup> ]	0.01	0.02	0.05	0.10	0.20
$I_{B'}/I_{A'}$	0.90	0.93	0.86	0.85	0.88