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Fig. S1 Cross-sectional SEM images of the silica MCCTs (a) and nanostructured Fc(COCH₃)₂ film (b).



Fig. S2 Photographic images of the silica MCCT (a), compact $Fc(COCH_3)_2$ (b), and nanostructured $Fc(COCH_3)_2$ film (c).



Fig. S3 Elemental mapping images of the nanostructured Fc(COCH₃)₂ film.

Fe Ka1

Si Ka1







Fig. S5 Cyclic voltammograms of compact $Fc(COCH_3)_2$ with uneven (a) and uniform (b) surface.



Fig. S6 Photographs of nanostructured $Fc(COCH_3)_2$ film (1 x 3 cm²) in a colored and bleached state.



Fig. S7 The switching response curves of compact (a) and nanostructured $Fc(COCH_3)_2$ film (b), 10 periods.