



Supporting Figure S1. Photographs of different F-doped VO₂ sample prepared on PET substrate: (a) pure VO₂ , (b) 0.37% F-doped VO₂, (c) 0.70% F-doped VO₂, (d) 2.93% F-doped VO₂. These results indicated that the appearance colour of VO₂ composite foils just shifted from Brown-yellow to Light yellow.