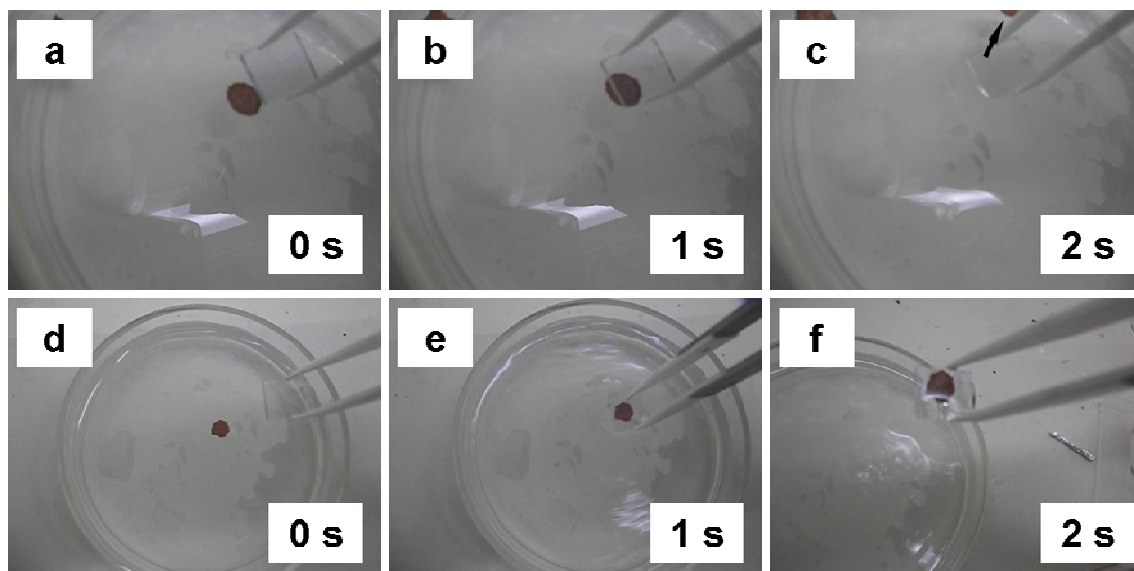


Chloroform can be used for surface modification for ITO substrate to change the interaction of P3HT pillar film reverse side and ITO substrate.



Additional file 1. Comparison of ITO substrates before and after modification by chloroform. Before modification, when ITO substrate approach P3HT pillar film reverse side (a, b), the film was pushed away (c). After modification, when ITO substrate approach P3HT pillar film reverse side (d, e), the film was attached to the substrate (f).