Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2016

## **Electronic Supplementary Information**

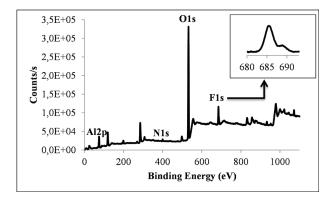


Fig. ESI 1. XPS spectrum of an Al surface with its native oxide modified by electrochemical reduction of  $D(CF_3)_2 + R_F I$  by chronoamperometry at E = -0.8 V/SCE for 15 min.

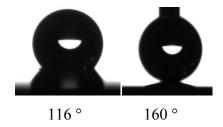


Fig. ESI. 2. Water contact angles of Al discs electrografted in the presence of  $I(CH_2)_2C_6F_{13}$  and  $DNO_2$  (left, 116°) or  $D(CF_3)_2$  (right, 160°). Ultrasonic cleaning for 6 min in acetone.

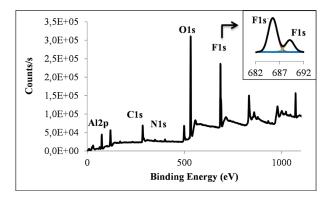


Fig. ESI. 3. XPS spectrum of an Al surface with its native oxide modified by spontaneous reaction with  $R_F NH2$ .