

Supporting Information

Characterization of ultrathin polymer optode and its application to temperature sensors based on luminescent europium complexes

Masaya Mitsuishi¹, Shinji Kikuchi¹, Tokuji Miyashita¹, and Yutaka Amao²

¹IMRAM, Tohoku University

²Oita University

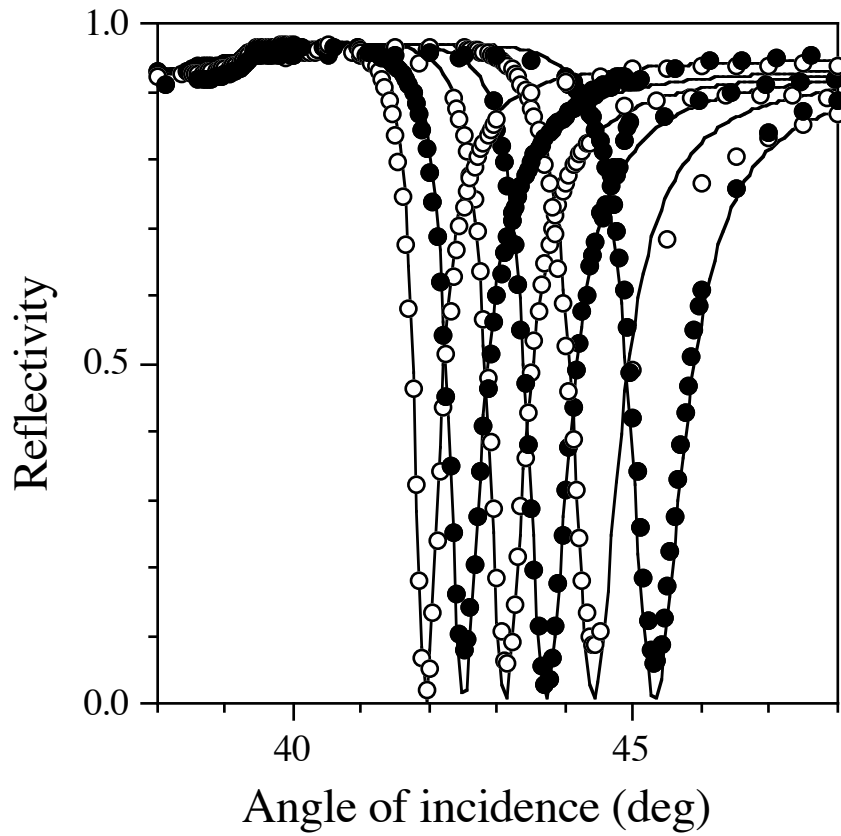


Fig. 1S. Surface plasmon curves for p(DDA-Eu(TTA)₃Phen) LB films on silver substrate; from left bare Ag, and 2, 4, 6, 8, and 10 layers. Optical parameters of the silver layer was as follows: dielectric constant $\epsilon = -16.3 + 0.67i$, and the thickness $d = 53$ nm.

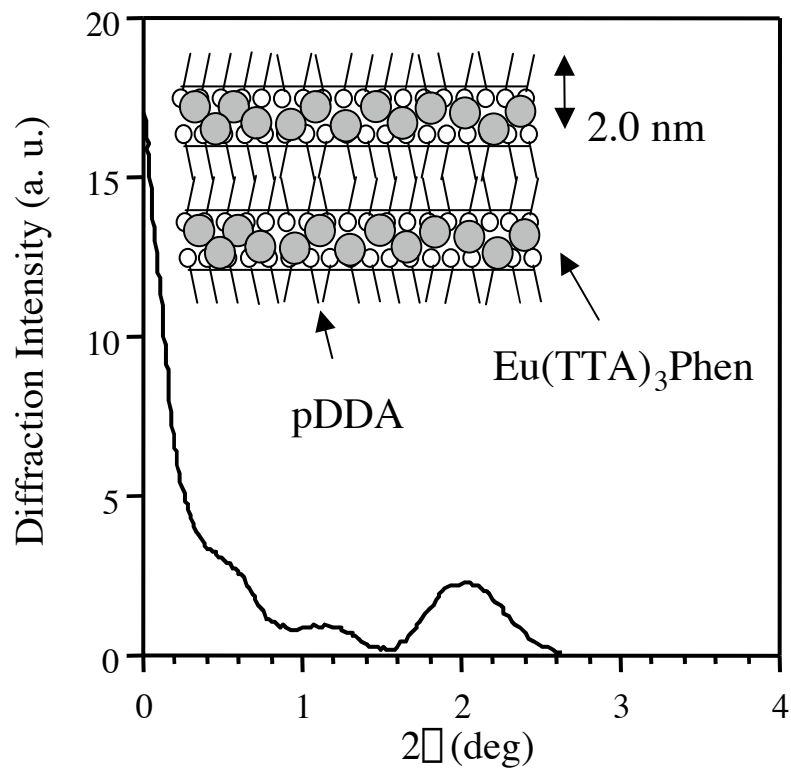


Fig. 2S X-ray diffraction pattern of p(DDA-Eu(TTA)₃Phen) LB films with 10 layers. (inset) Schematic illustration for the layer structure of p(DDA-Eu(TTA)₃Phen) LB films.