

File Name: Supplementary Movie 1

Description: A flexible blue fluorescent OLED with P/N/P/N TFE barriers operated while i) being bent and twisted and ii) being fully immersed in deionized water.

File Name: Supplementary Movie 2

Description: A flexible red phosphorescent OLED with P/N/P/N TFE barriers operated in deionized water.

File Name: Supplementary Movie 3

Description: A flexible red phosphorescent OLED with P/N/P/N TFE barriers operated in acetone. It is seen that the label written on left-hand side of the device dissolves and dissipates between 00:20 and 00:32 in the video.

File Name: Supplementary Movie 4

Description: A flexible red phosphorescent OLED with P/N/P/N TFE barriers operated while being wrapped around a metal rod ($r_b = 1.5$ mm) and being bent and twisted.

File Name: Supplementary Movie 5

Description: A flexible red phosphorescent OLED with P/N/P/N TFE barriers operated while being folded around the backside of a razor blade ($r_b \approx 0.2$ mm).