

- (b) Legend for the dielectric characteristics plot:
- RLC-Blue ● RLC-Red ● RLC-Red+VUV
 - RLC-Green ● RLC-Green+VUV ● RLC-VUV
 - RLC-Yellow ● RLC-Yellow+VUV

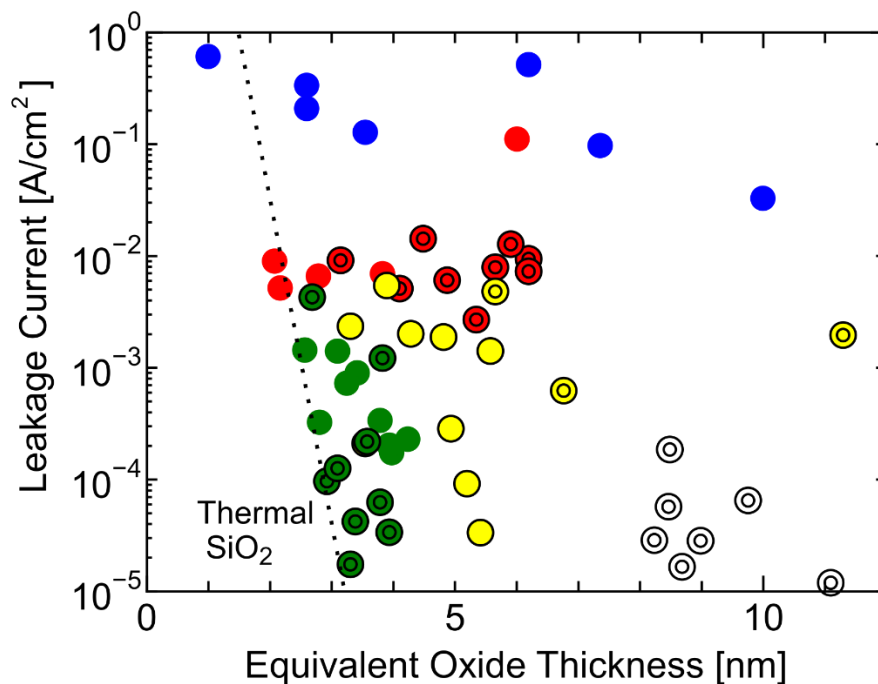


Figure 1. (a) Structure of a plasmon-excited surface reaction system using plasma-supplied radicals. The wavelength of the LED light source for excitation was controlled by a filter and mixed with plasma VUV light. (b) Dielectric characteristics of 5-minute treated SiON film according to light irradiation conditions.