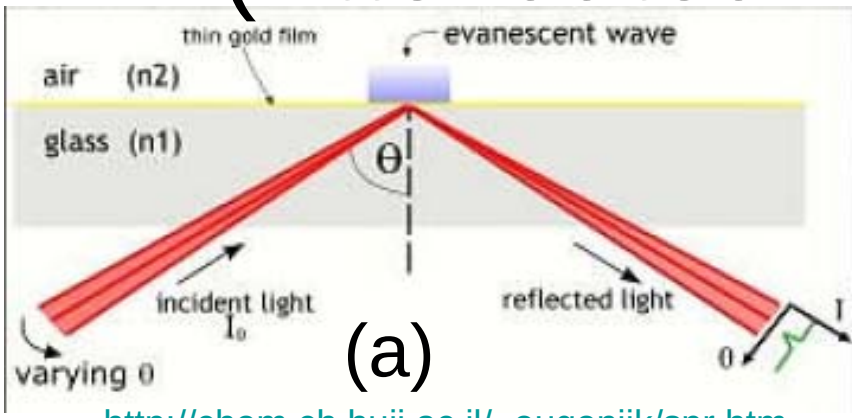
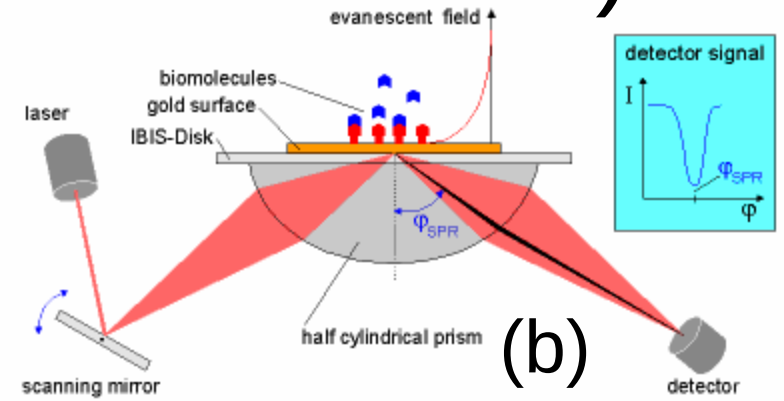
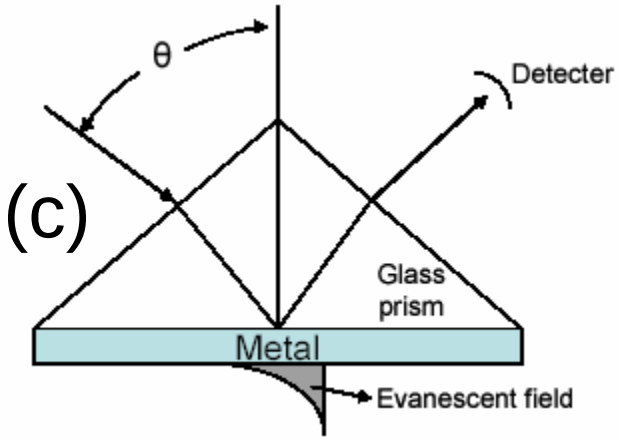
SPR Experimental Setup with ATR (Attenuated Total Reflection)



http://chem.ch.huji.ac.il/~eugeniik/spr.htm



http://www.xantec.com/html/spr.html



$$k_{sp} = k_x = k_0\sqrt{\varepsilon_p}\sin\theta_p = k_0\sqrt{\frac{\varepsilon_d\varepsilon_m}{\varepsilon_d+\varepsilon_m}}$$

ATR Configurations for SPR

- (a). Plane glass layer;
- (b). Cylinder prism;
- (c). Triangular prism.

Glass is used to enhance wavevector Kx so that SPR can be possible.

Advantages of prism over plane layer

Enhance the range of incident angle.