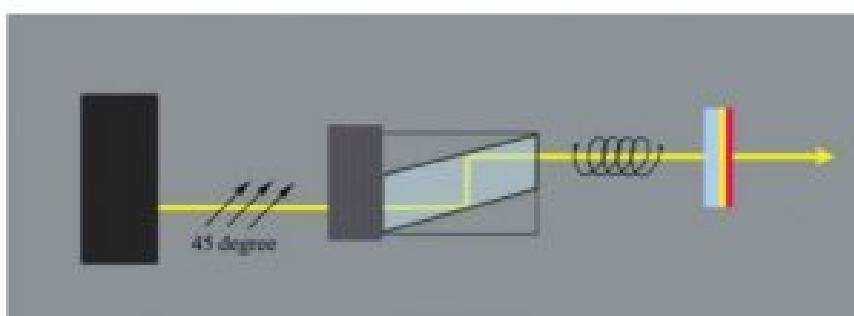
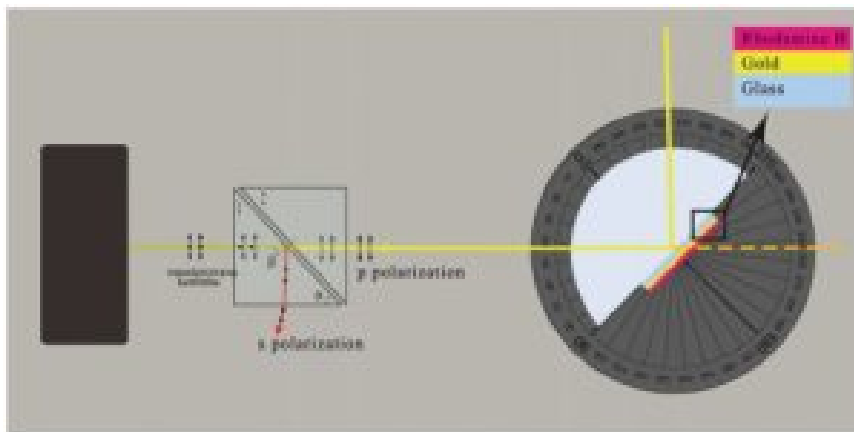


# Congratulations for the publication of paper “Plasmon- exciton induced circular dichroism in Gold/PMMA (RB) complex”

Congratulations for the publication of paper “Plasmon- exciton induced circular dichroism in Gold/PMMA (RB) complex” by **Dr Hamidi, Ms Jafari, Mr Behjati and Ms Sohrabi.**



In this paper, we have investigated the strong coupling between exciton-plasmon by the aid of reflectance spectroscopy under different dye molecules weight in the samples. For this purpose, we have prepared five different samples as Glass/Cr/Au/PMMA (RB<sub>x</sub>); in which the weight of RB has been changed from 0 to 4 mg. The spectroscopy of the samples has been done under angular modulation and also the dispersion

relation of the samples has been extracted from this measurement. These measurements revealed the formation of two split polaritonic extreme in reflectance spectra as a function of wavelength. Then we have shown exciton–plasmon coupling in dispersion diagram which presented an extra allowed mode between the polaritonic branches. After that, the circular dichroism spectra of samples have been measured to see the strong coupling circular dichroism. Our results show that, we have significant change in the dichroism of gold thin film due to strong coupling in all of visible region.