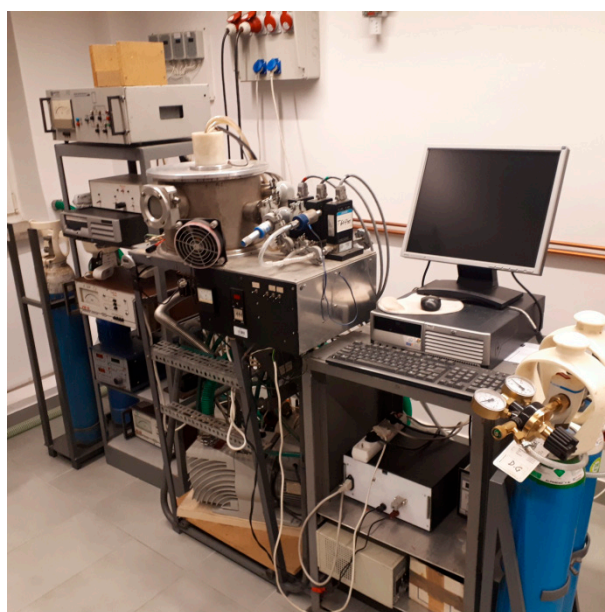


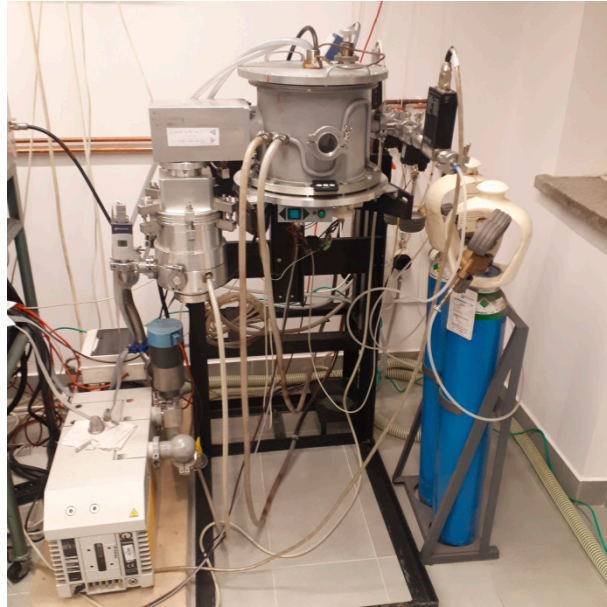
## Supplementary Materials



**Figure S1.** The copper oxide deposition system based on the magnetron sputtering technology.



**Figure S2.** The titanium dioxide deposition system based on the magnetron sputtering technology.



**Figure S3.** Tin dioxide deposition system based on the magnetron sputtering technology