

Figure 1. XPS measured after ending a) platinum and b) ruthenium processes to the metal precursor and O₂ pulse.

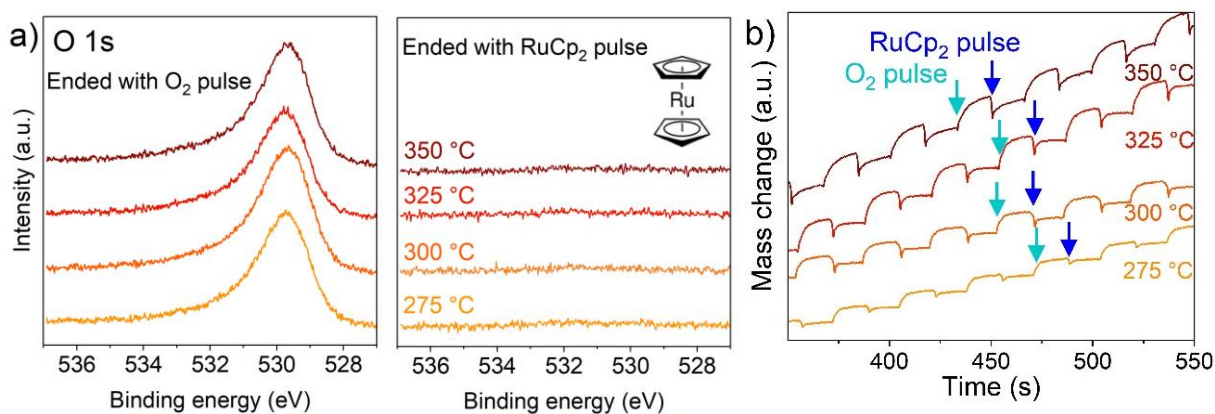


Figure 2. Ruthenium process studied with a) XPS and b) QCM at deposition temperatures of 275-350 °C.

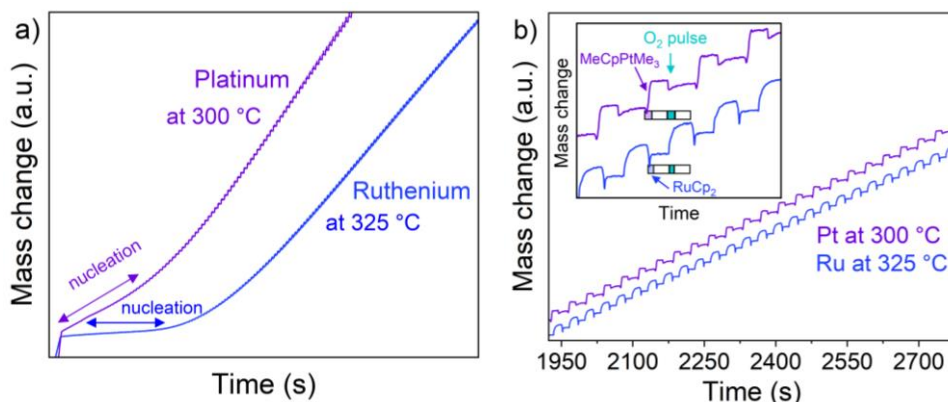


Figure 3. QCM was used to follow a) the nucleation and b) steady state growth of platinum (violet) and ruthenium (blue) films.