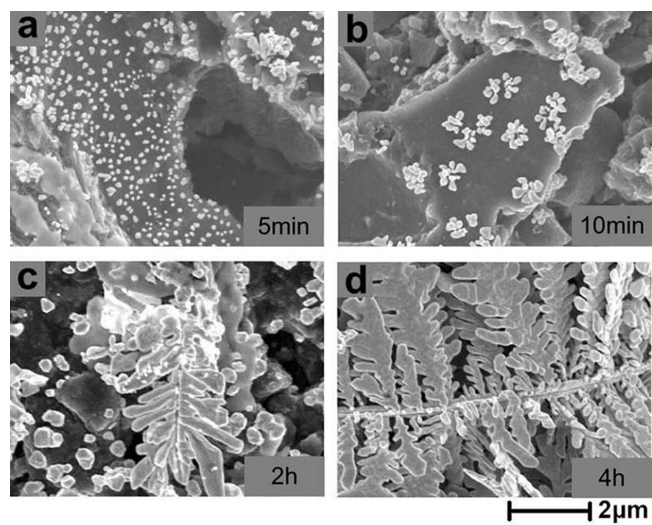


### Supplementary Information



**S. Fig. 1** SEM images of MACs surfaces after immersing in 100 ppm AgNO<sub>3</sub> solution for different time without Cl<sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, or SO<sub>4</sub><sup>2-</sup> ions absorbed in prior.