





Figure S2. Elemental mapping and semi-quantitative analysis of $\mathsf{Si}_{\mathsf{NWs}}$ sample



Figure S3. Elemental mapping and semi-quantitative analysis of ${\rm Si}_{\rm NWs}\text{-}{\rm Cu}_{\rm NPs}$ sample





Figure S4. Elemental mapping and semi-quantitative analysis of Si_{NWs}-GO sample with 2 min of deposition time



Figure S5. Elemental mapping and semi-quantitative analysis of Si_{NWs}-Cu_{NPs}-GO sample with 2 min of deposition time





Figure S6. Elemental mapping and semi-quantitative analysis of Si_{NWs}-Cu_{NPs}-GO sample with 1 min of deposition time