



Figure 1: (Up) Bottom part SEM image (left) and cross section STEM-HAADF image (right) of 5 μm thick TiO₂ nanotube layers coated with crystalline ZnO coating [8]. (Down) Bottom parts SEM images of 5 μm thick TiO₂ nanotube decorated with Pt nanoparticles (left), and 20 μm thick TiO₂ nanotube coated with amorphous Al₂O₃ coatings (right).