

Au nanoparticles doped ZrTiO₄ films and hydrogen gas induced Au-plasmon shifting

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Electronic Supplementary Information (ESI):

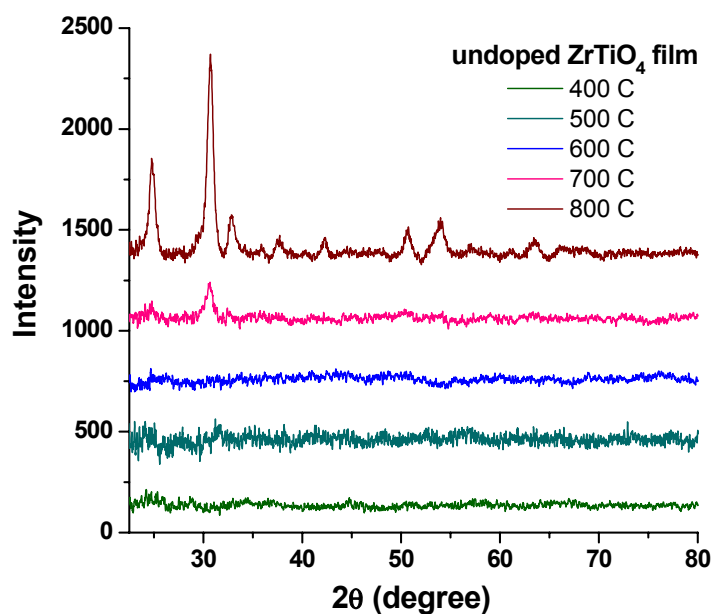


Fig. S1 GIXRD patterns of undoped ZrTiO₄ films heat treated at different temperatures. The films were prepared following the identical procedures as those of Au doped films (see experimental).

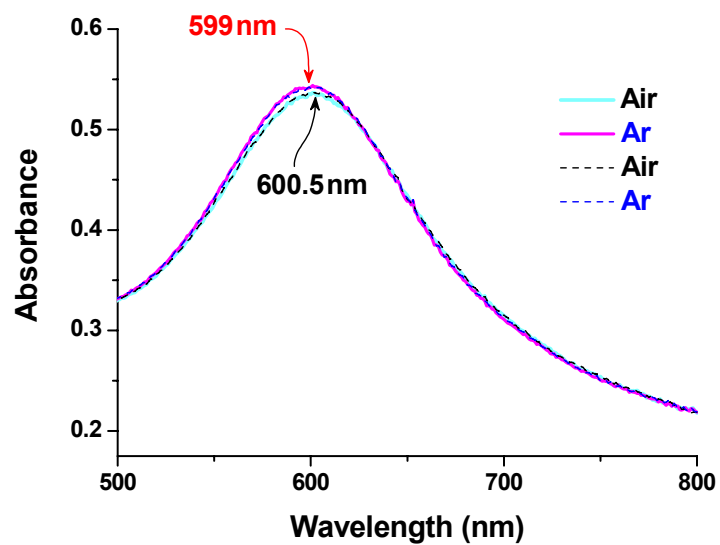


Fig. S2 Au-SPR positions of the Au doped amorphous ZrTiO₄ film (annealed at 400 °C) in argon and air (two cycles each) at the operating temperature 200 °C.