

β -Ga₂O₃ Nanostructures: Chemical Vapor Deposition Growth Using Thermally Dewetted Au Nanoparticles as Catalyst and Characterization

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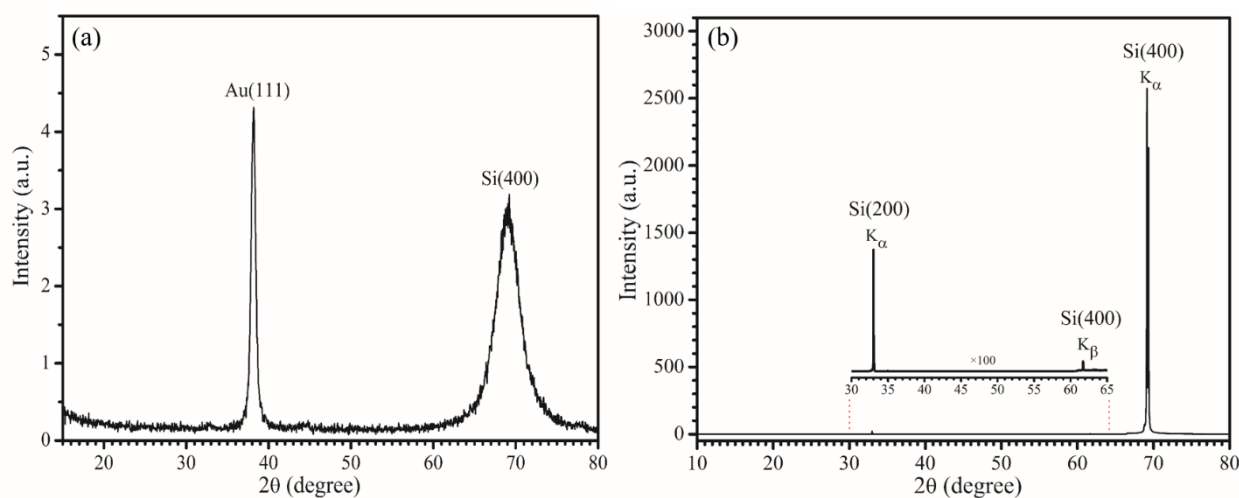


Figure S1. XRD patterns of (a) Au nanoparticles from thermal dewetting of a 2.9 nm thick Au thin film on a Si substrate, and (b) a blank Si (100) substrate. Peak assignments are based on ICDD No. 04-0784 for Au and No. 80-0018 for Si.

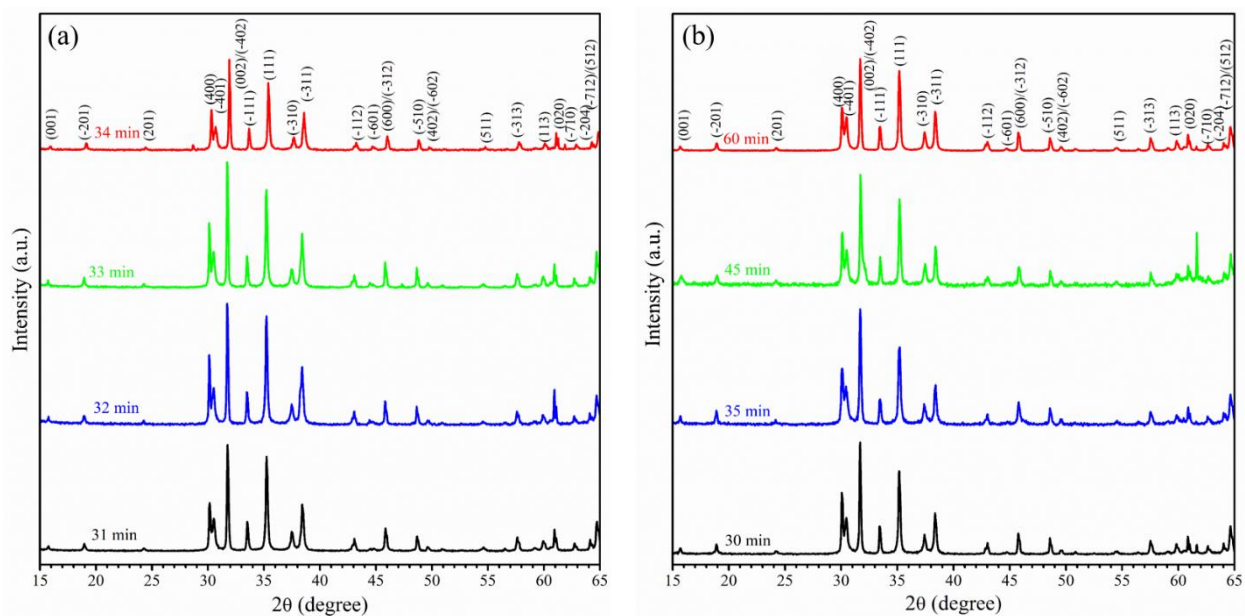


Figure S2. XRD patterns of β -Ga₂O₃ nanostructures grown for various times of (a) 31–34 min at 1000 °C and (b) 30–60 min at 1100 °C under a constant Ar flow of 50 sccm.

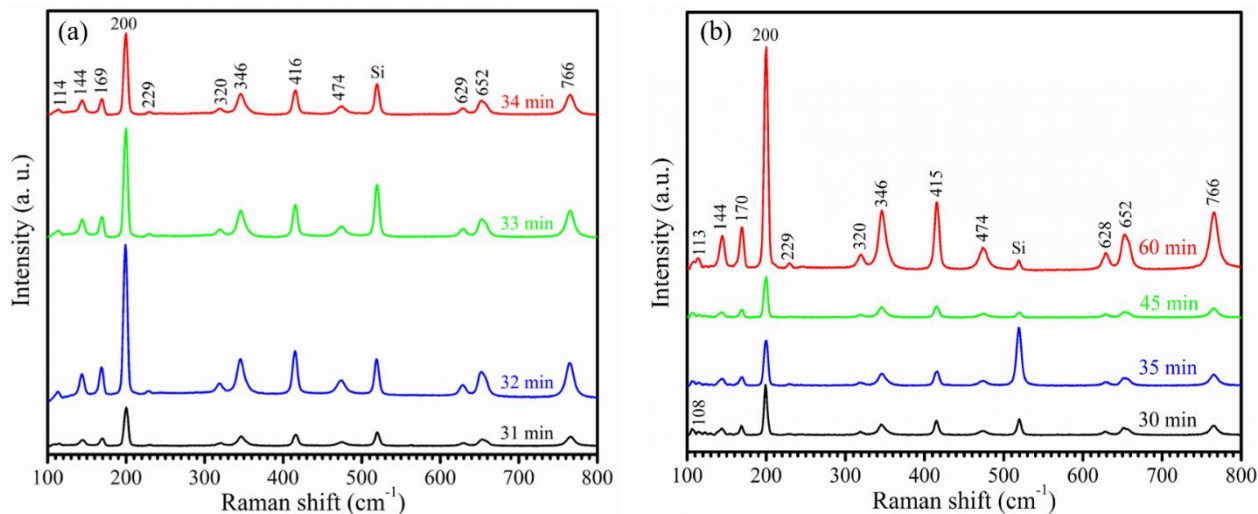


Figure S3. Room-temperature Raman spectra of β -Ga₂O₃ nanostructures grown for various times of (a) 31–34 min at 1000 °C and (b) 30–60 min at 1100 °C under a constant Ar flow of 50 sccm.