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Supporting Information.

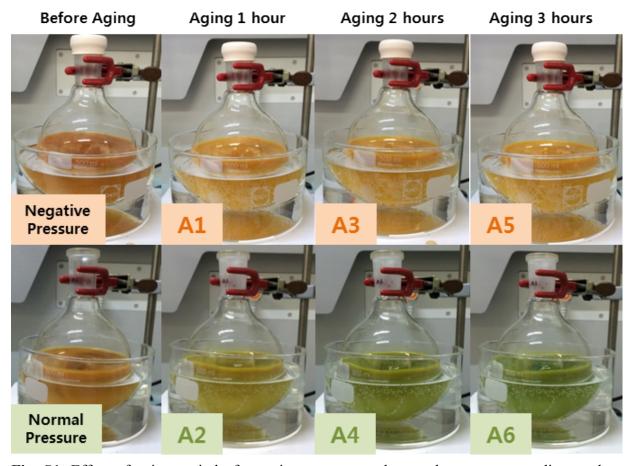


Fig. S1. Effect of aging period of negative pressure and normal pressure according to the differences in aging periods. (A1, A2: After 1 hour of aging. A3, A4: After 2 hours of aging. A5, A6: After 3 hours of aging.).

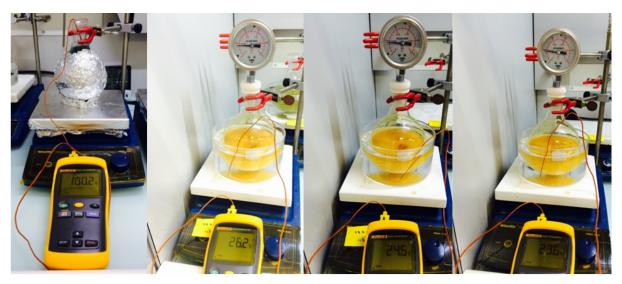


Fig. S2. Measurements of temperature and negative pressure during the reaction of copper(I) oxide synthesis using a k-type temperature sensor and a vacuum pressure gauge.

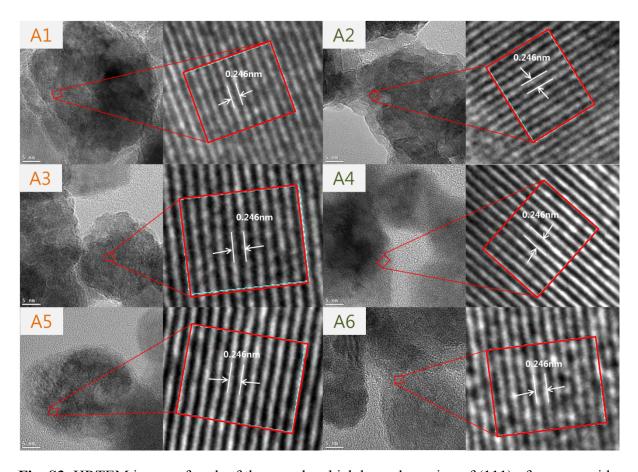


Fig. S3. HRTEM image of each of the sample which have d-spacing of (111) of copper oxide.

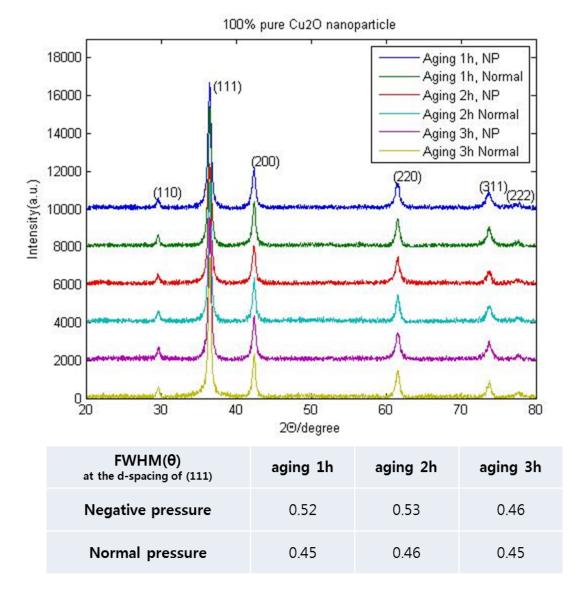


Fig. S4. XRD patterns and FWHM(θ) of the synthesized copper(I) oxide nanoparticle according to aging period and aging pressure.