

Electronic Supplementary Information (ESI)

Size-Controlled Monodispersed Nickel Nanocrystals Using 2-octanol as Reducing Agent

Jhon L. Cuya Huaman,^a Nobuyoshi Hironaka,^a Shinya Tanaka,^a Kozo Shinoda,^b Hiroshi Miyamura,^a and Balachandran Jeyadevan^{*a}

^a *Department of Materials Science, School of Engineering, The University of Shiga Prefecture, Hikone, Japan.*

^b *Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Japan.*

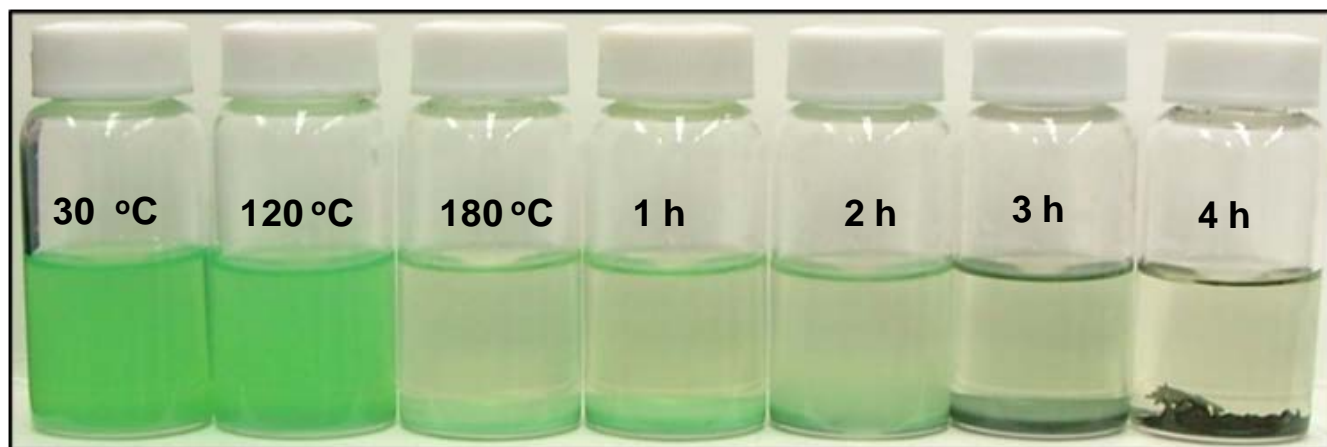


Figure S1. Colors that the solutions take during the reduction of nickel acetate could be related with the formation of layered hydroxide and metallic nickel.

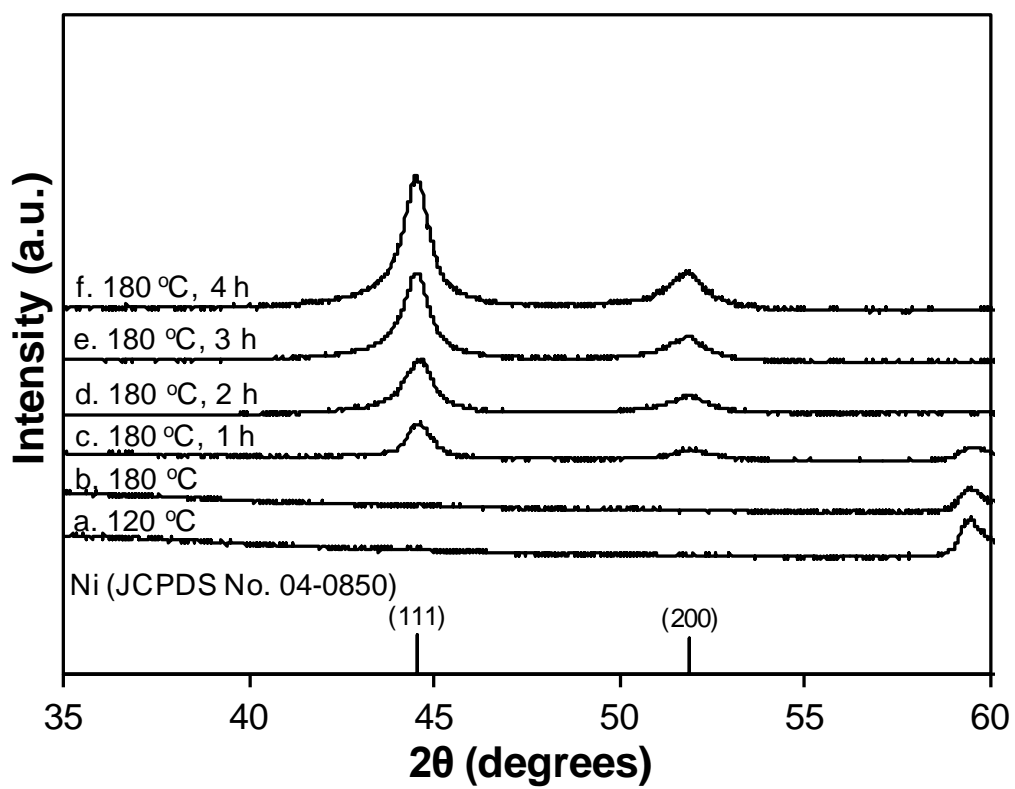


Figure SII. XRD patterns of nickel powders synthesized with 2-octanol and 0.4 M oleylamine at different reaction temperatures and durations.

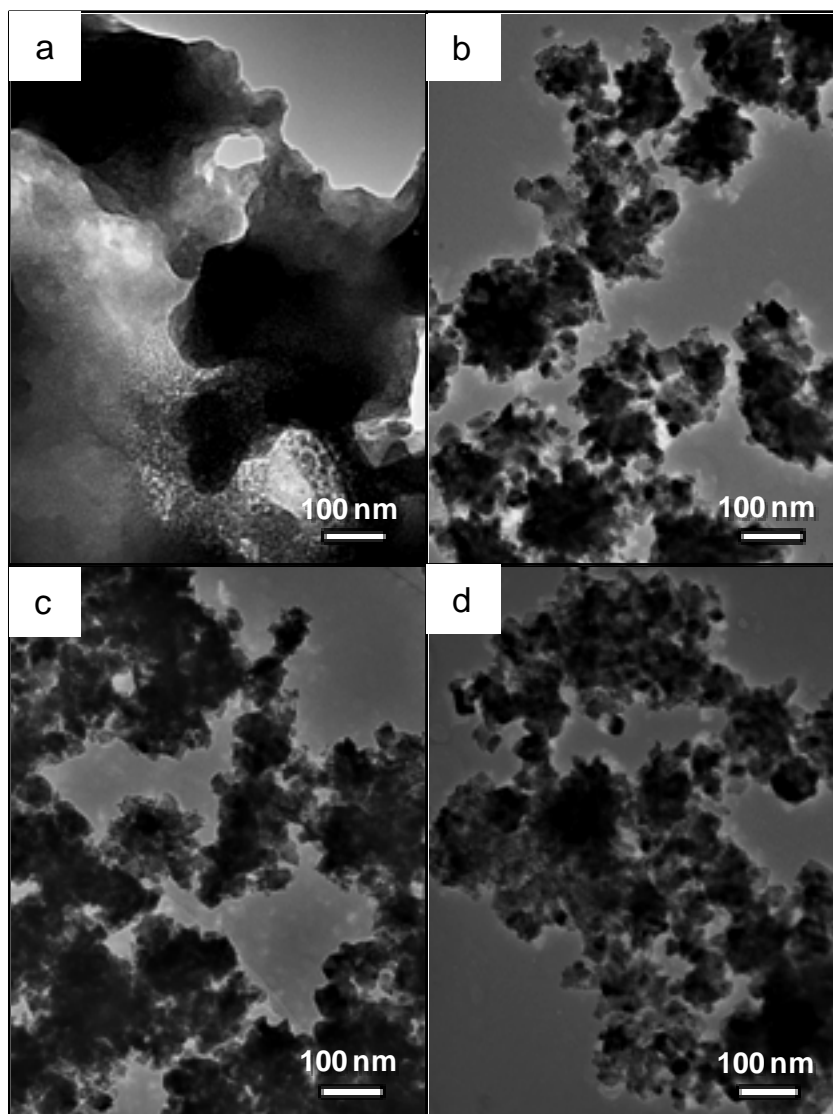


Figure SIII. TEM images of nickel nanoparticles obtained by adding 0.2 M NaOH to 2-octanol. a) 120 °C, b) 180 °C, c) 180 °C for 1 h, and d) 180 °C for 4 h.