Electronic supplementary information (ESI) for Chemical Communications

Gold Nanoparticles Prepared with a Room-Temperature Ionic Liquid–Radiation Irradiation Method

Tetsuya Tsuda,[a,b] Satoshi Seino,[a] and Susumu Kuwabata[b,c]

[a]*Frontier Research Base for Global Young Researchers,*
Graduate School of Engineering, Osaka University, 2-1 Yamada-oka, Suita, Osaka 565-0871, Japan
[b]*Department of Applied Chemistry,*
Graduate School of Engineering, Osaka University, 2-1 Yamada-oka, Suita, Osaka 565-0871, Japan
[c]*Japan Science and Technology Agency, CREST, Kawaguchi, Saitama 332-0012, Japan*

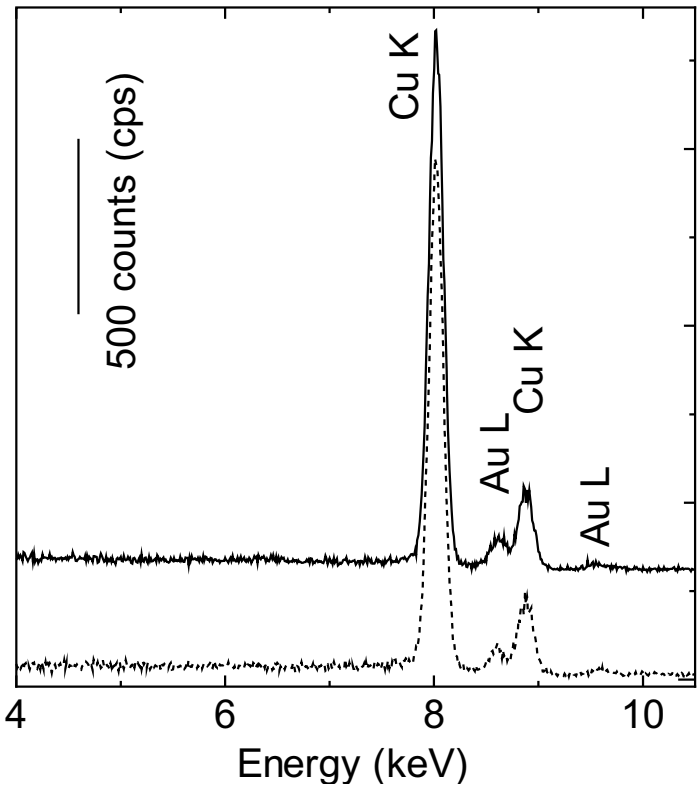

Figure S1 EDX spectra of Au nanoparticles synthesized in $BuMeImTf_2N$ with 0.5 mmol L^{-1} $NaAuCl_4 \cdot 2H_2O$ using (—) accelerator electron beam and (- - -) γ-ray irradiation. Copper mesh grids were used for the EDX analyses. The irradiation dose was 20 kGy.

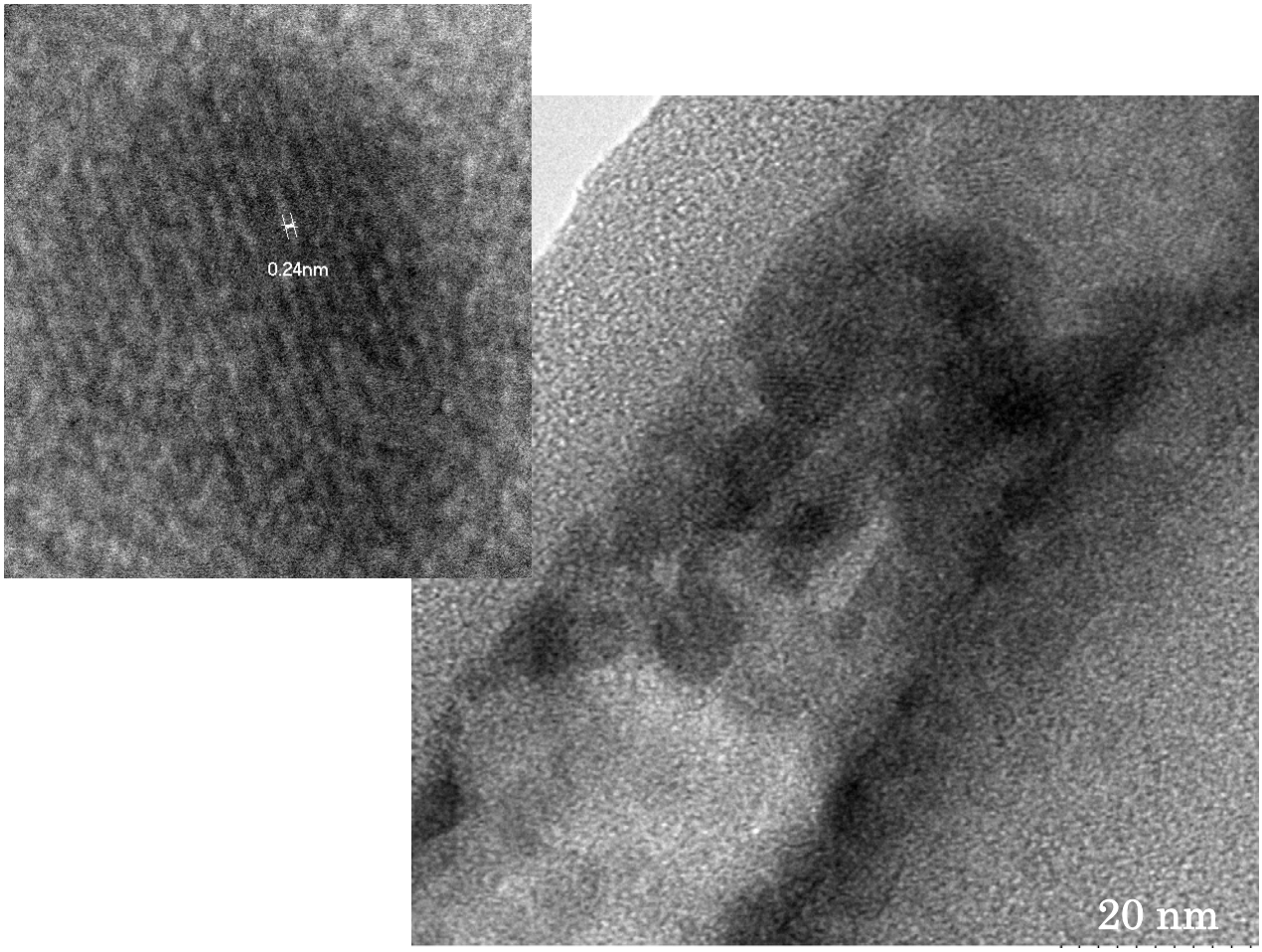

Figure S2 TEM images of Au nanoparticles synthesized in $BuMeImTf_2N$ with 0.5 mmol L^{-1} $NaAuCl_4 \bullet 2H_2O$ using γ-ray irradiation dose of 20 kGy.