

Electronic supplementary information (ESI) for Chemical Communications

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

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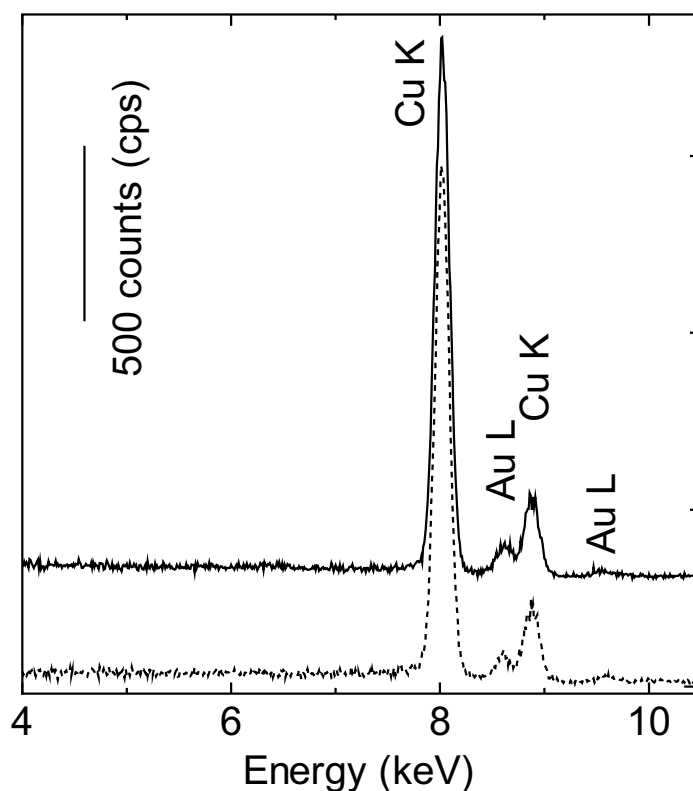


Figure S1 EDX spectra of Au nanoparticles synthesized in BuMeImTf<sub>2</sub>N with 0.5 mmol L<sup>-1</sup> NaAuCl<sub>4</sub>•2H<sub>2</sub>O using (—) accelerator electron beam and (- - -)  $\gamma$ -ray irradiation. Copper mesh grids were used for the EDX analyses. The irradiation dose was 20 kGy.

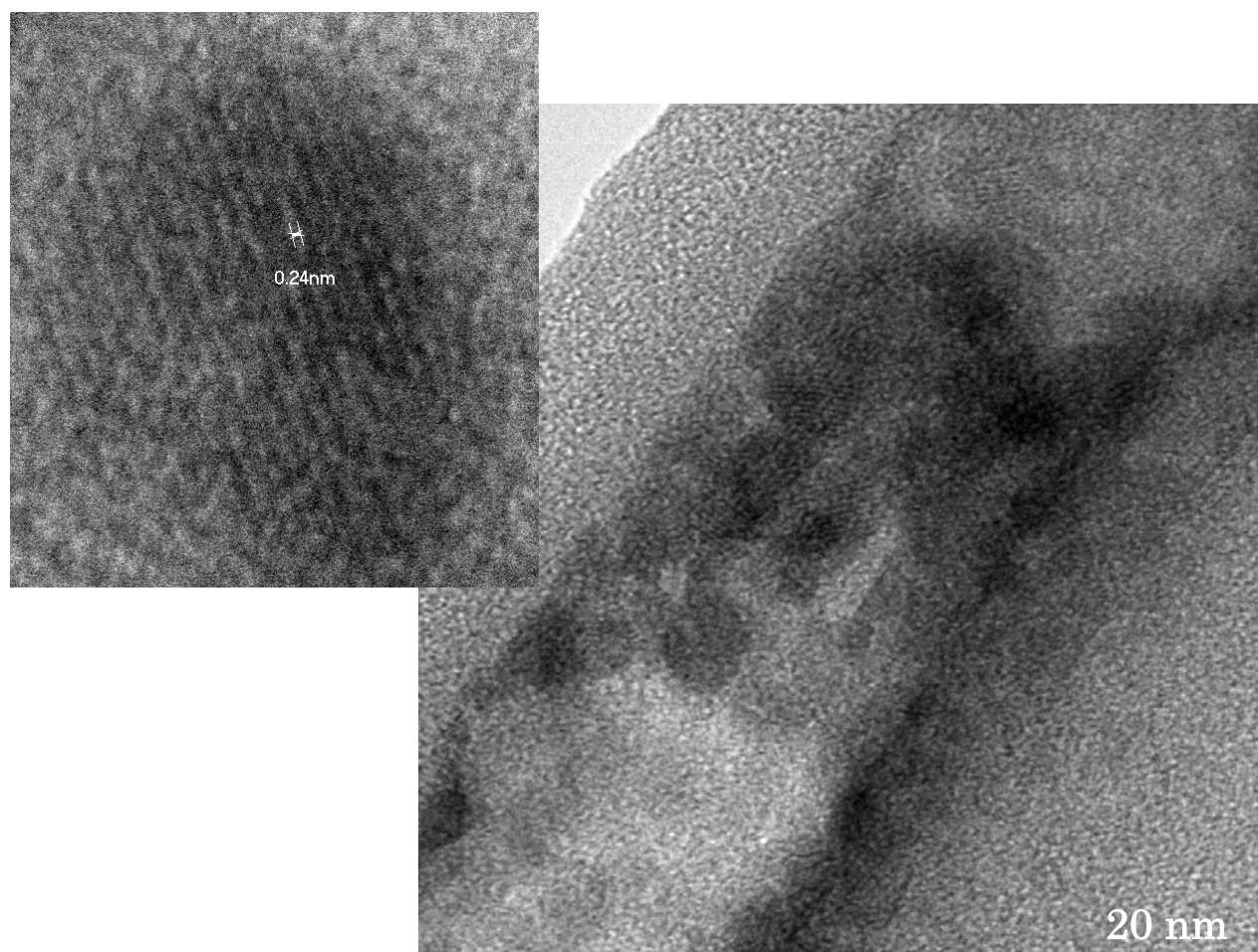


Figure S2 TEM images of Au nanoparticles synthesized in BuMeImTf<sub>2</sub>N with 0.5 mmol L<sup>-1</sup> NaAuCl<sub>4</sub>•2H<sub>2</sub>O using  $\gamma$ -ray irradiation dose of 20 kGy.