

Supporting Information

On the mechanism of rapid metal exchange between thiolate-protected gold and gold/silver clusters: A time-resolved *in situ* XAFS study

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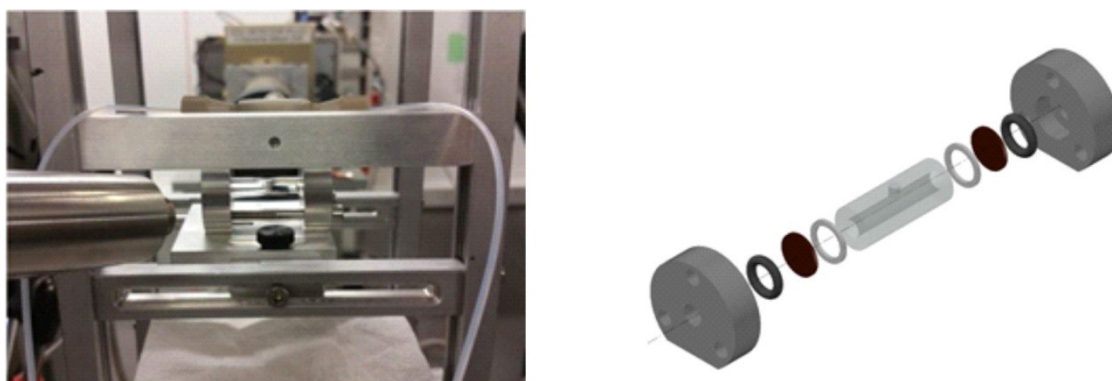


Figure S1. Photos and schematic illustration of the cell for the *in situ* studies.

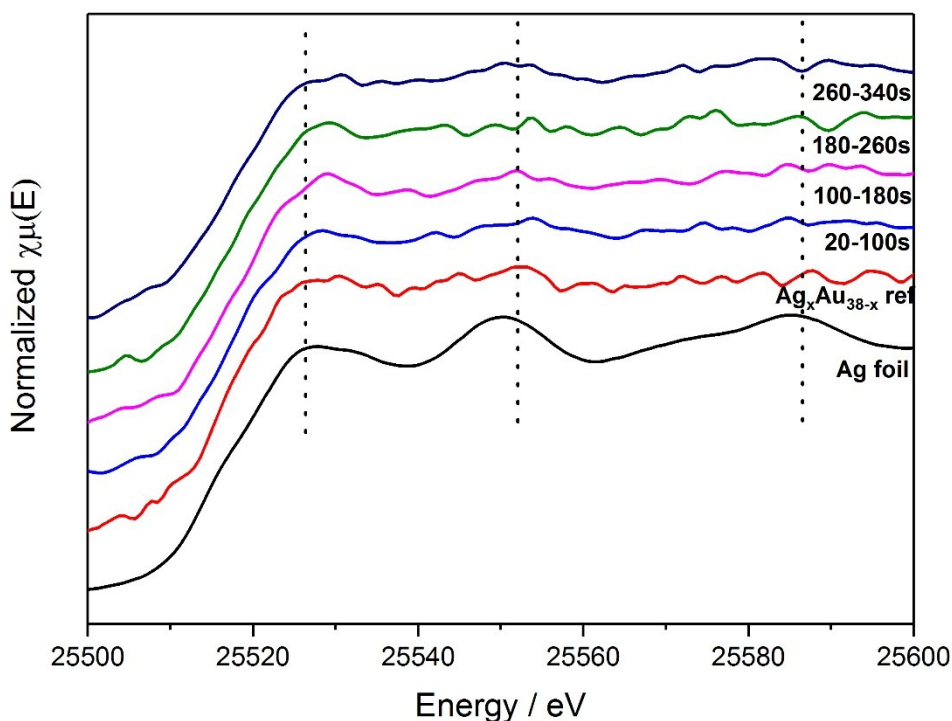


Figure S2. XANES spectra of the silver migration reaction at Ag K-edge at longer reaction times

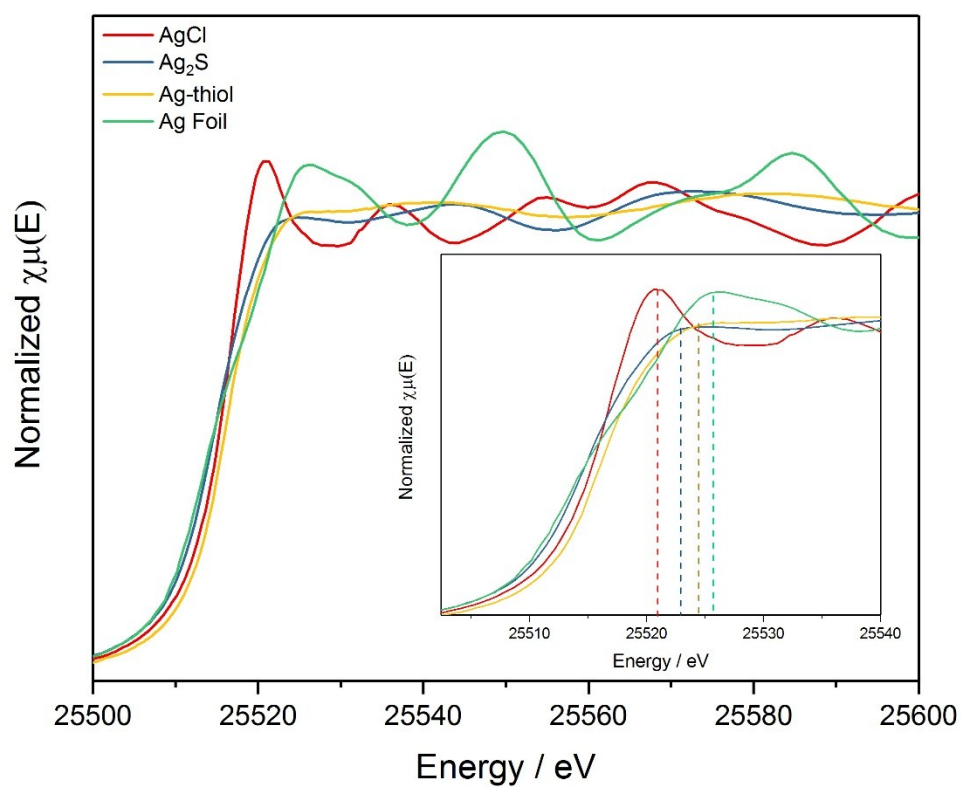


Figure S3. XANES spectra of silver references at Ag K-edge from ref ¹

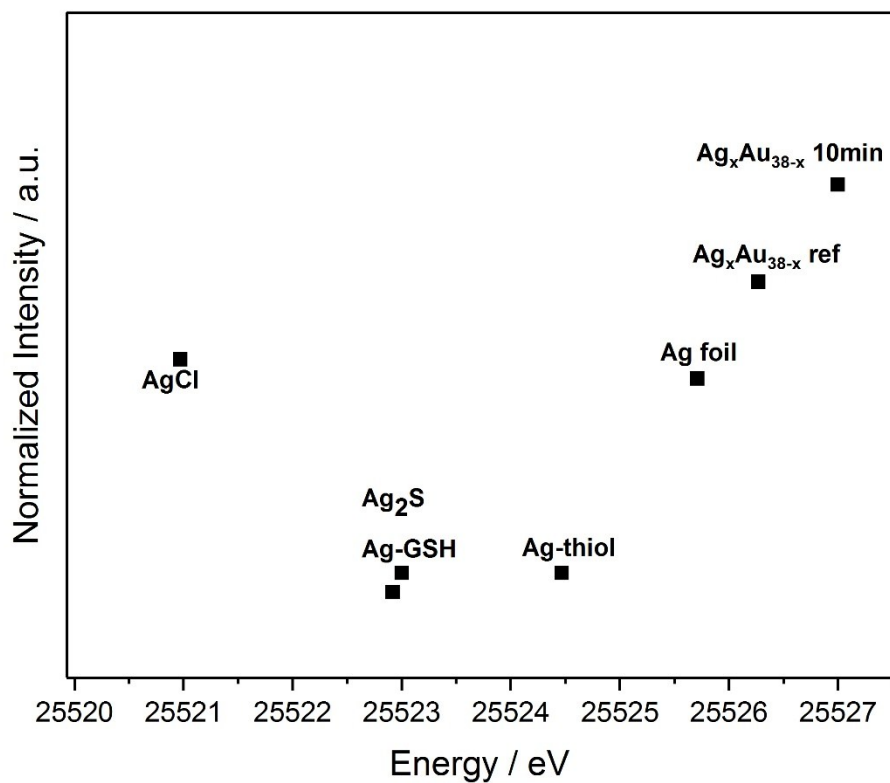


Figure S4. White line Energy from XANES spectra of silver references and sample after 10 min reaction at Ag K-edge. ^{1,2}

1. C. L. Doolette, M. J. McLaughlin, J. K. Kirby, D. J. Batstone, H. H. Harris, H. Ge and G. Cornelis, *Chemistry Central Journal*, 2013, **7**, 46-46.
2. G. Veronesi, A. Deniaud, T. Gallon, P. H. Jouneau, J. Villanova, P. Delangle, M. Carriere, I. Kieffer, P. Charbonnier, E. Mintz and I. Michaud-Soret, *Nanoscale*, 2016, **8**, 17012-17021.