

Electronic Supplementary Information

**Selective Oxidation of Crotyl Alcohol by Au<sub>x</sub>Pd Bimetallic Pseudo-Single-Atom Catalysts**

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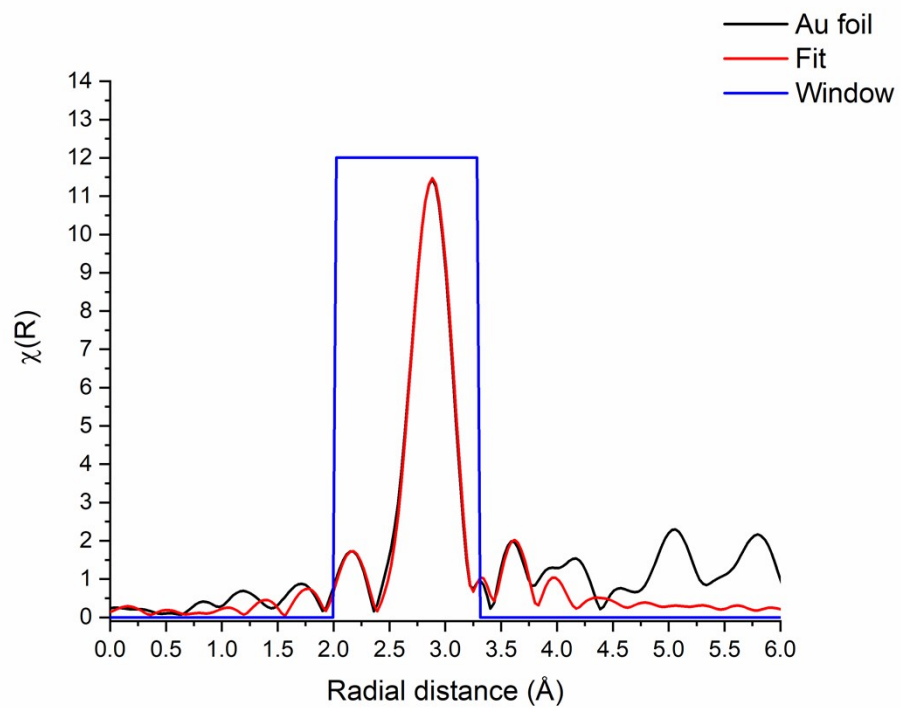


Figure S1. Au L<sub>III</sub>-edge EXAFS fit for Au foil.

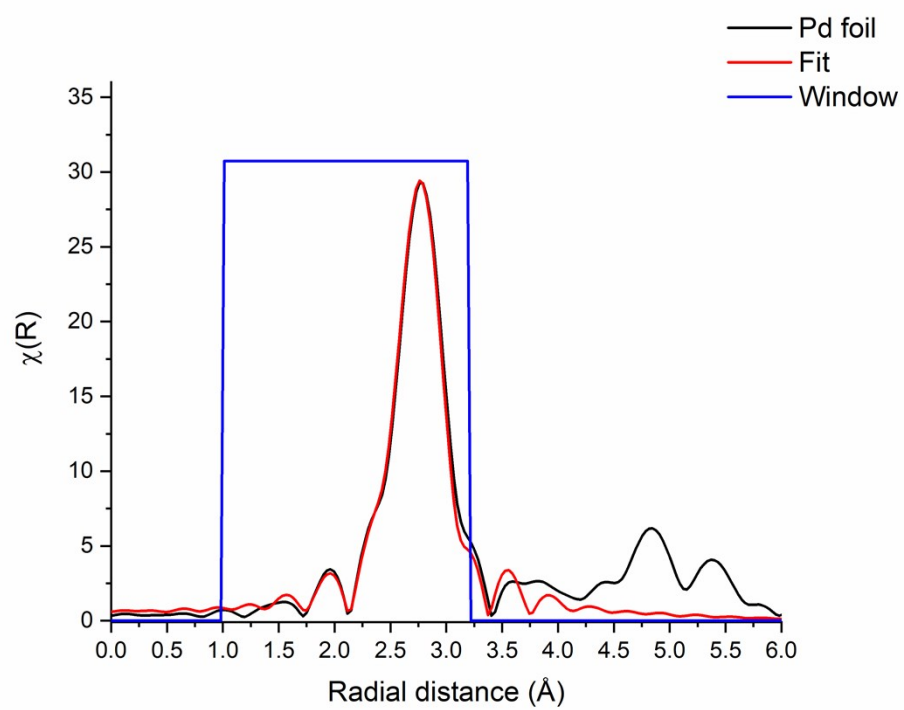


Figure S2. Pd K-edge EXAFS fit for Pd foil.

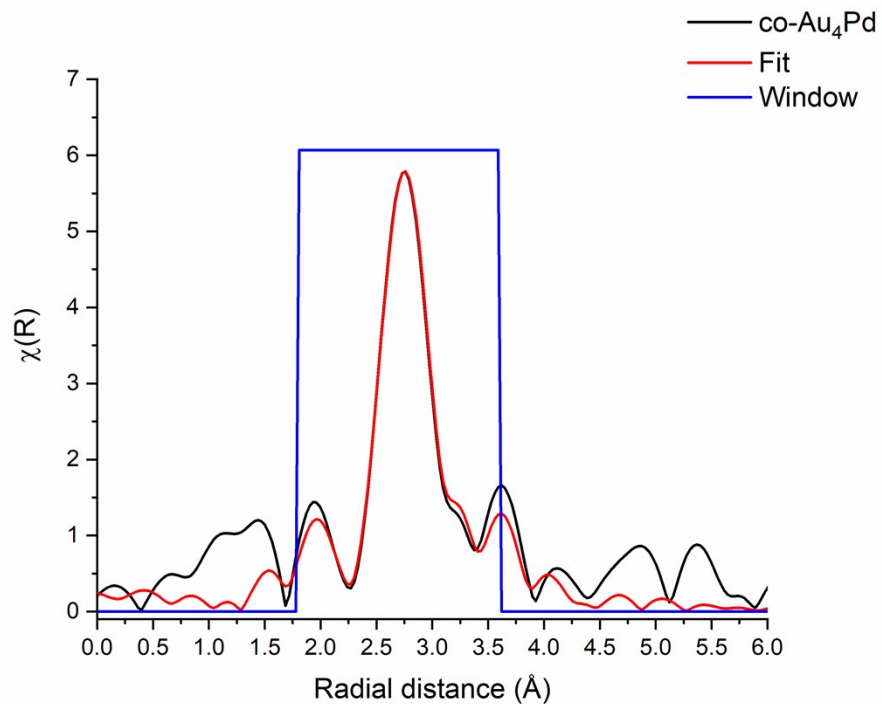


Figure S3. Pd K-edge EXAFS fit for co-Au<sub>4</sub>Pd.

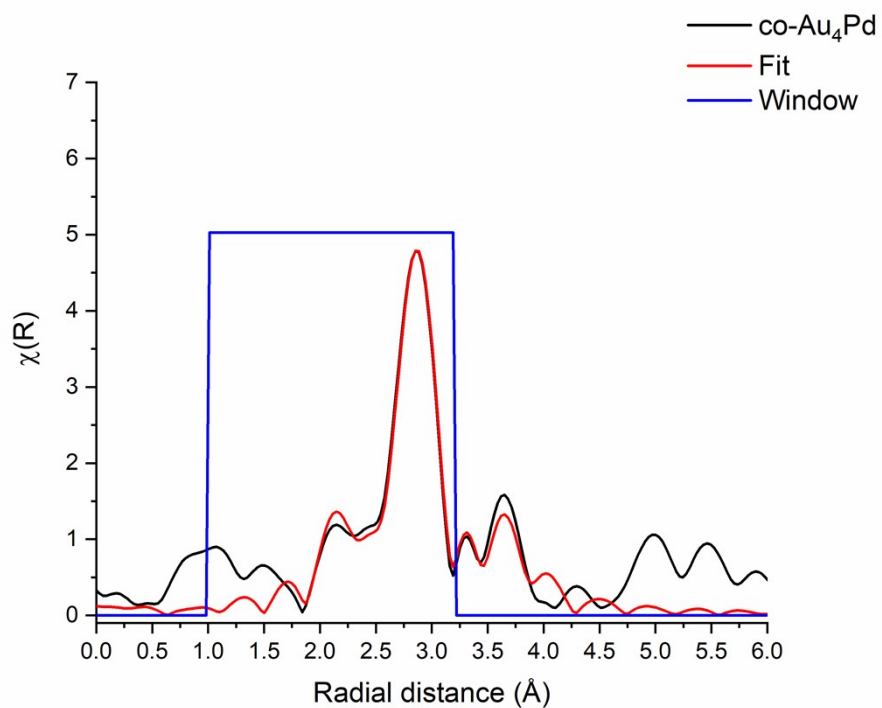


Figure S4. Au L<sub>III</sub>-edge EXAFS fit for co-Au<sub>4</sub>Pd.

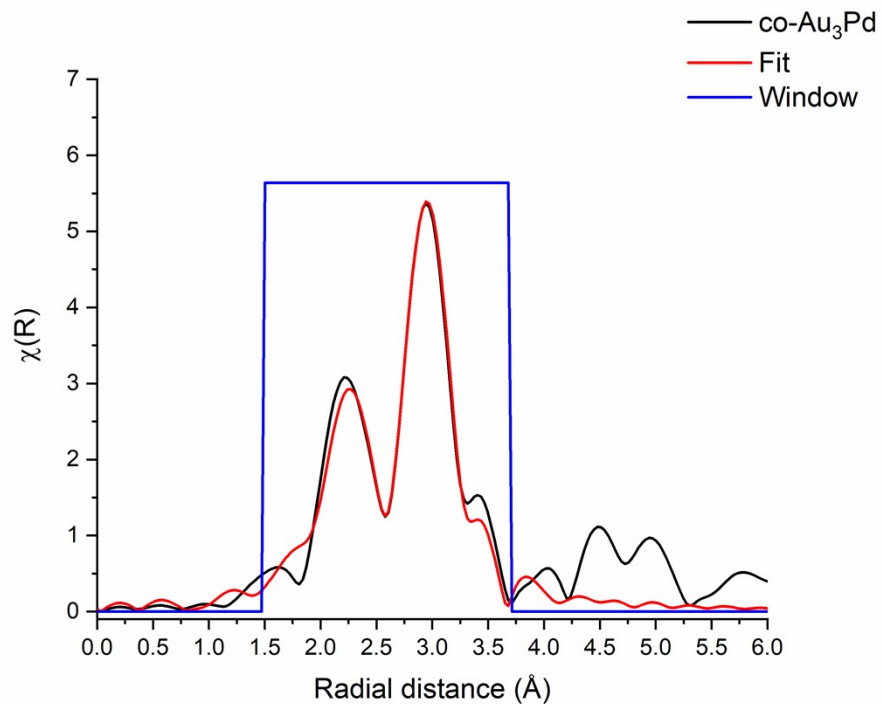


Figure S5. Pd K-edge EXAFS fit for co-Au<sub>3</sub>Pd.

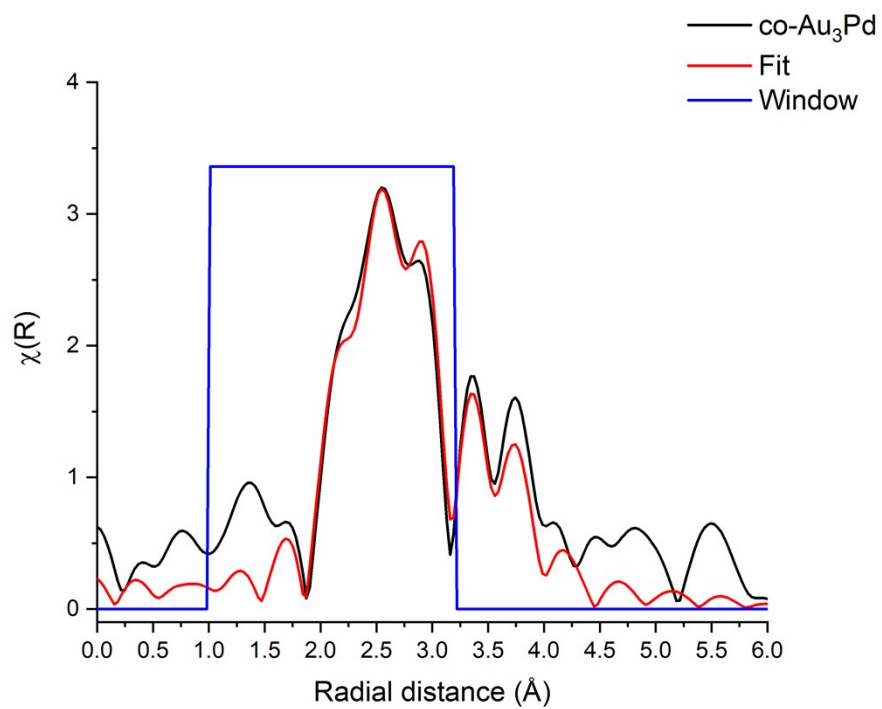


Figure S6. Au L<sub>III</sub>-edge EXAFS fit for co-Au<sub>3</sub>Pd.

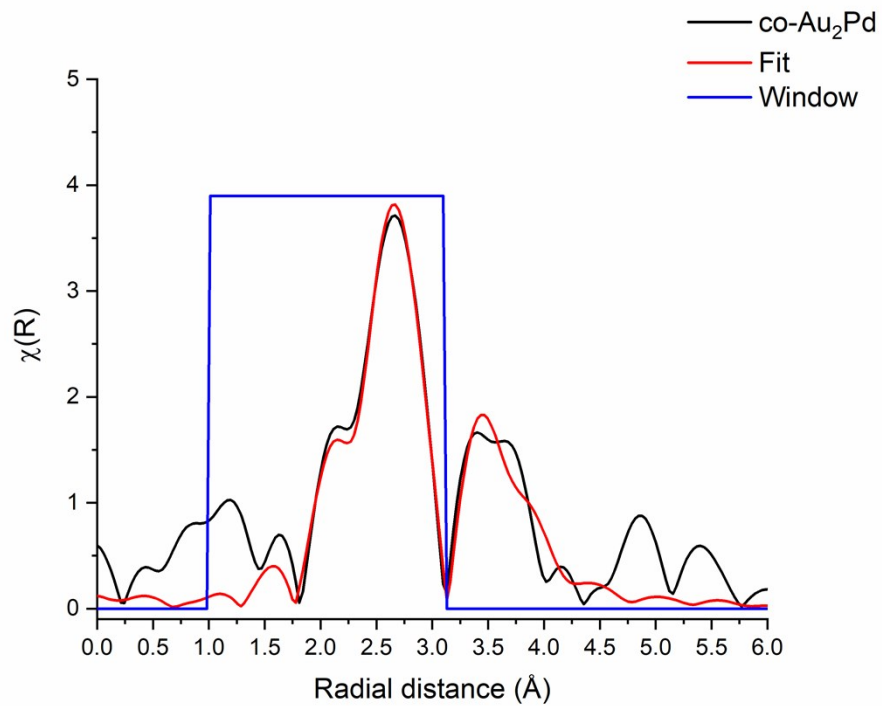
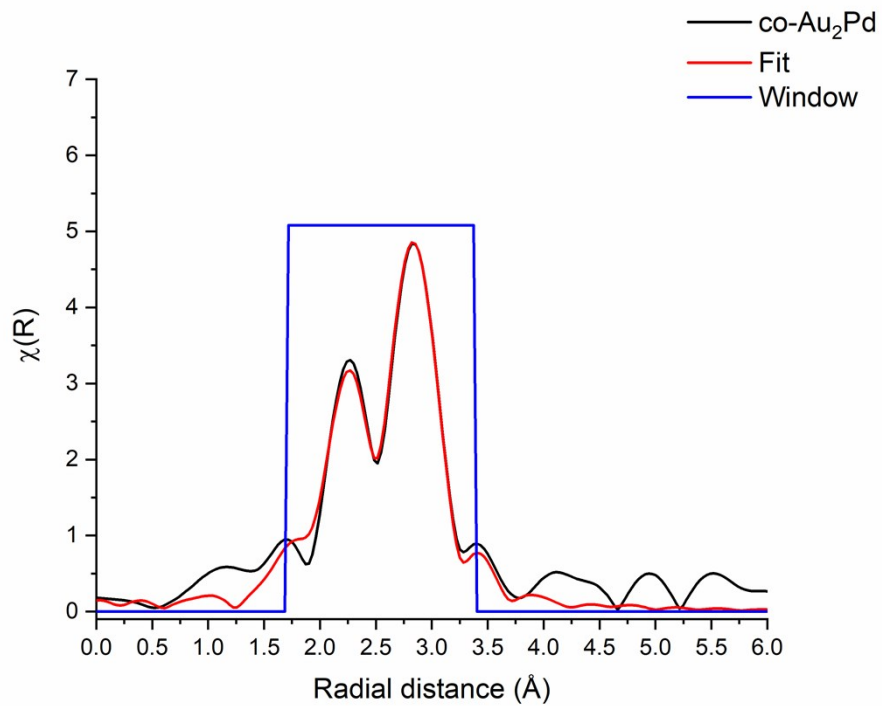


Figure S7. Pd K-edge EXAFS fit for co-Au<sub>2</sub>Pd.

Figure S8. Au L<sub>III</sub>-edge EXAFS fit for co-Au<sub>2</sub>Pd.

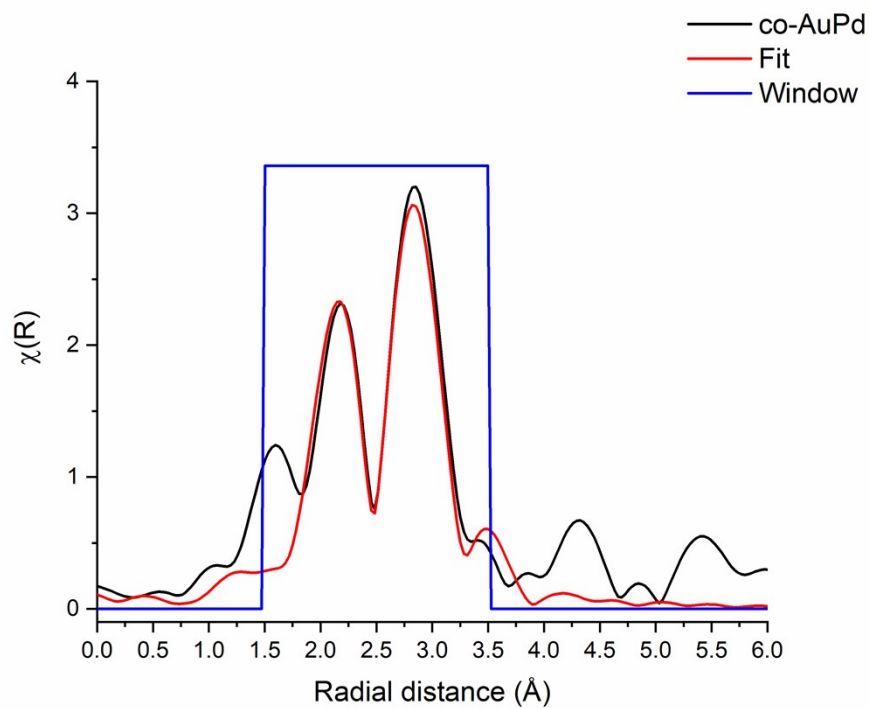


Figure S9. Pd K-edge EXAFS fit for co-AuPd.

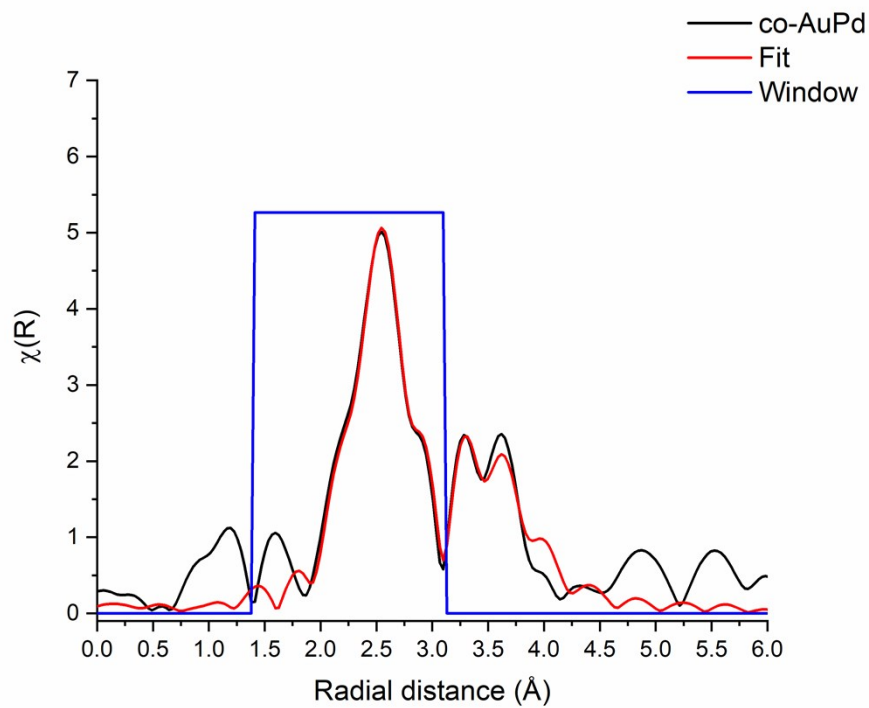


Figure S10. Au L<sub>III</sub>-edge EXAFS fit for co-AuPd.

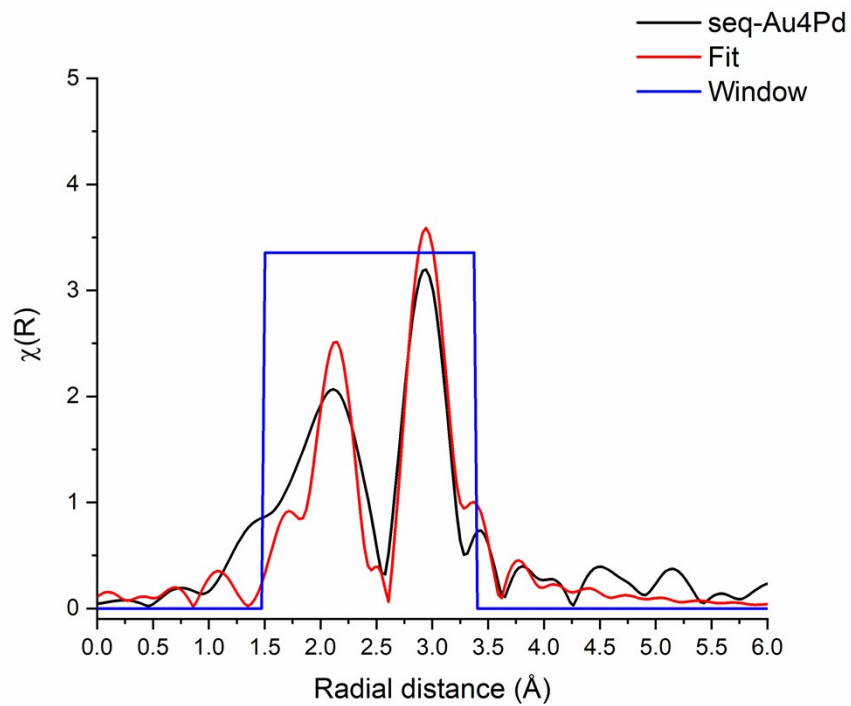


Figure S11. Pd K-edge EXAFS fit for seq-Au<sub>4</sub>Pd.

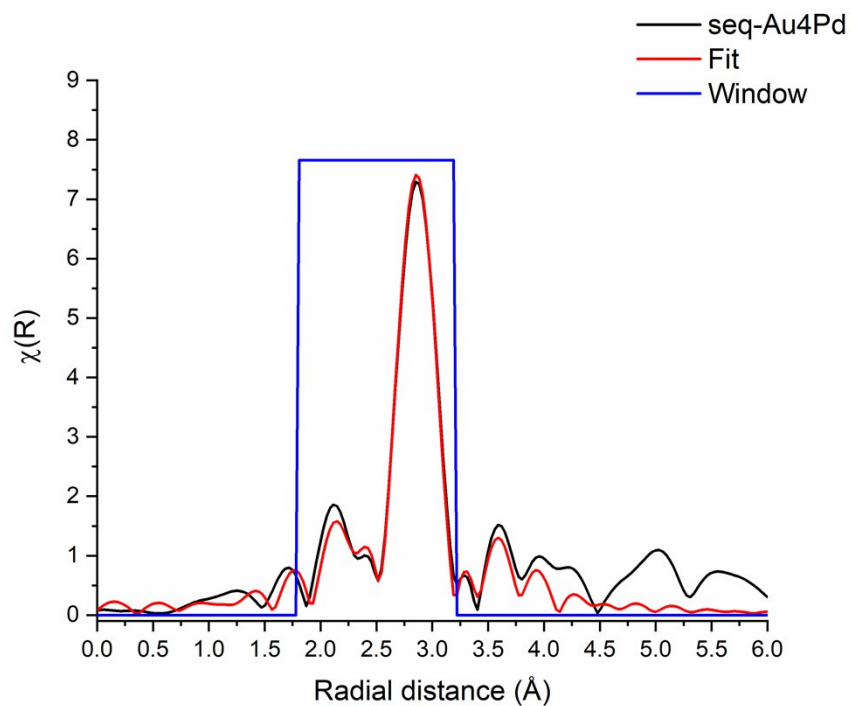


Figure S12. Au L<sub>III</sub>-edge EXAFS fit for seq-Au<sub>4</sub>Pd.



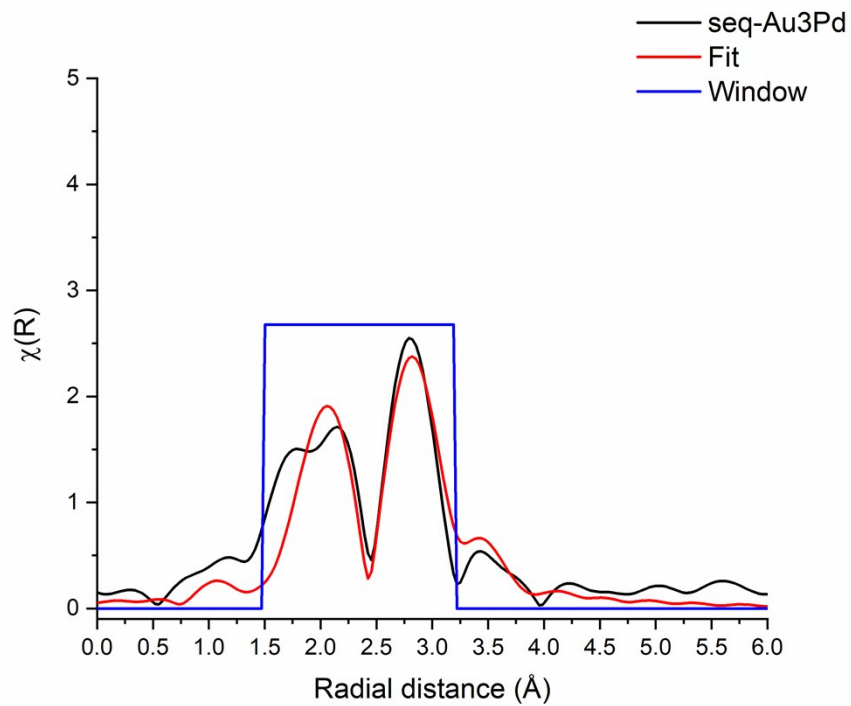


Figure S13. Pd K-edge EXAFS fit for seq-Au<sub>3</sub>Pd.

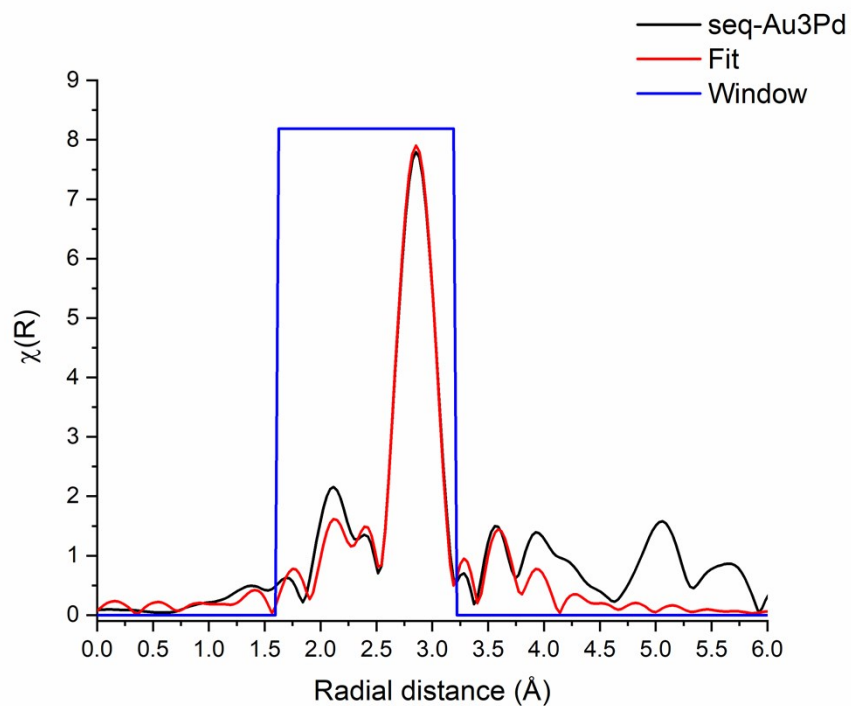


Figure S14. Au L<sub>III</sub>-edge EXAFS fit for seq-Au<sub>3</sub>Pd.

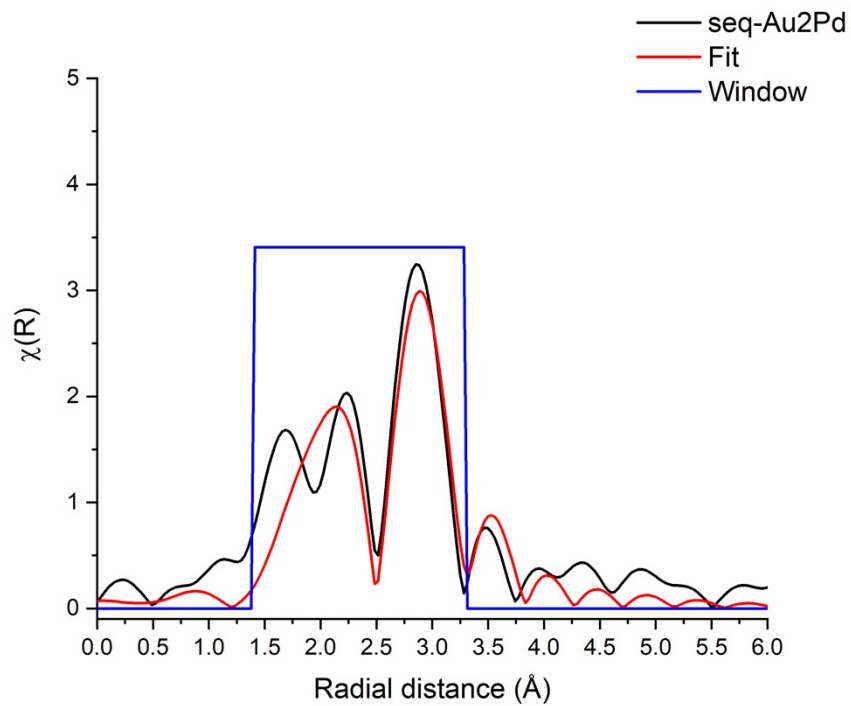


Figure S15. Pd K-edge EXAFS fit for seq-Au<sub>2</sub>Pd.

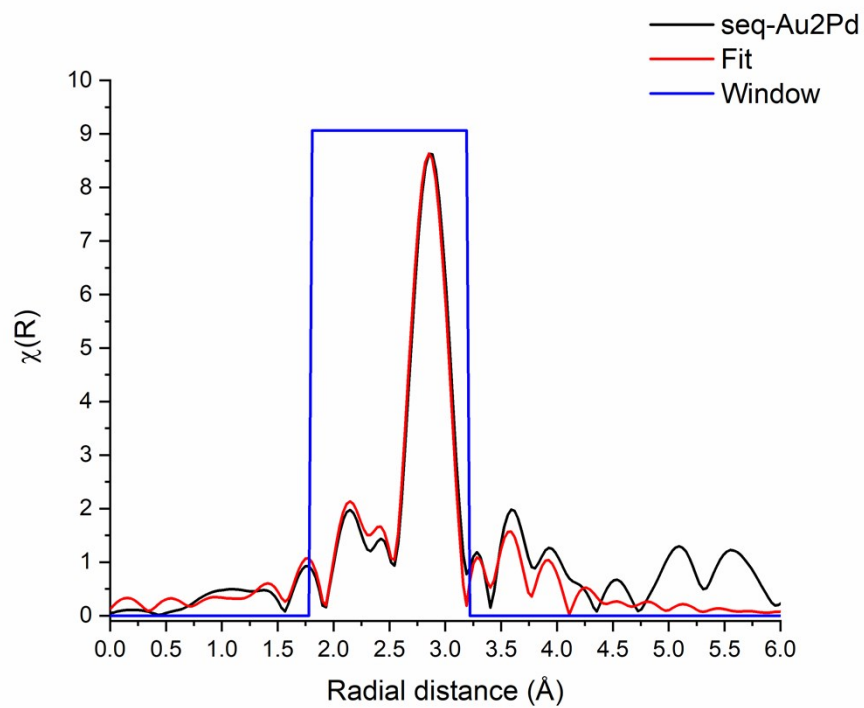


Figure S16. Au L<sub>III</sub>-edge EXAFS fit for seq-Au<sub>2</sub>Pd.

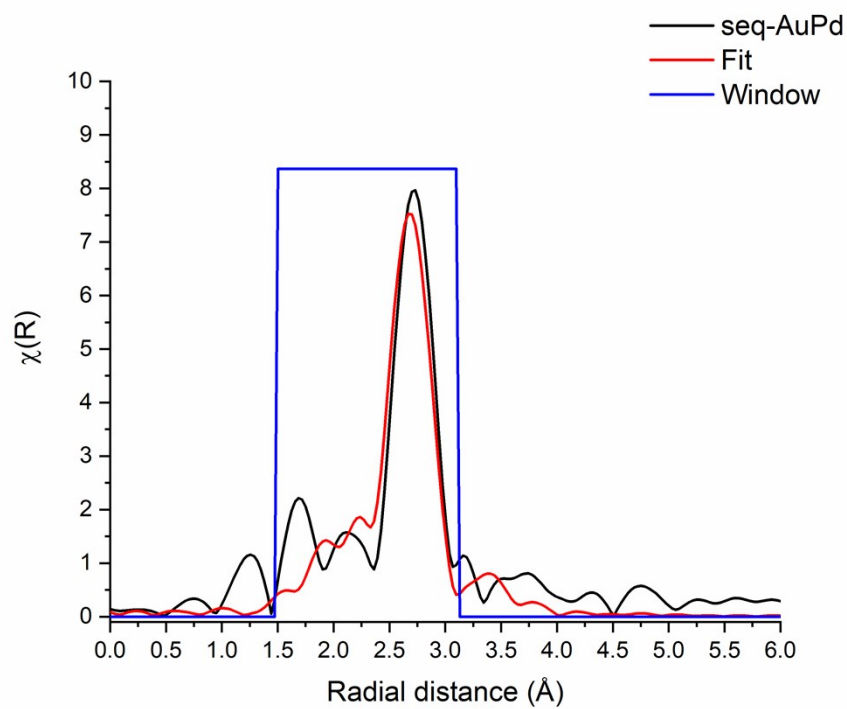


Figure S17. Pd K-edge EXAFS fit for seq-AuPd.

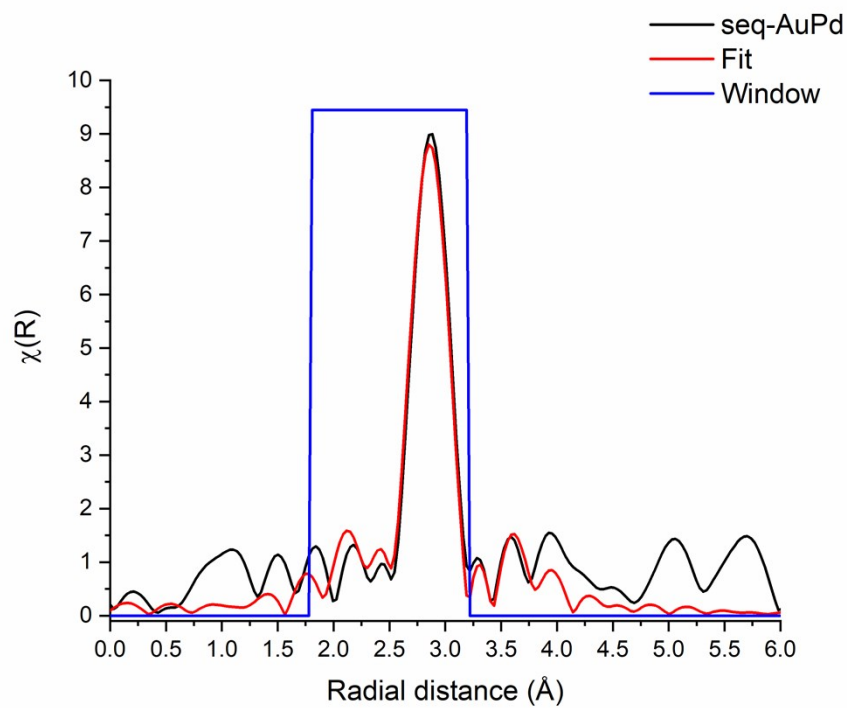


Figure S18. Au L<sub>III</sub>-edge EXAFS fit for seq-AuPd.