Electronic Supplementary Material for PCCP

The Formation of Colloidal Copper Nanoparticles Stabilized by Zinc Stearate: One-Pot Single-Step Synthesis and Characterization of the Core-Shell Particles

André Rittermeier,[a] Marie K. Schröter,[a] Shaojun Miao,[a] Xiaoning Zhang,[b] Maurits W. E. van den Berg,[a] Shankhamala Kundu,[a] Yuemin Wang,[a] Sabine Schimpf,[a] Elke Löffler,[a] Roland A. Fischer[b] and Martin Muhler*[a]

Electronic Supplementary Data:

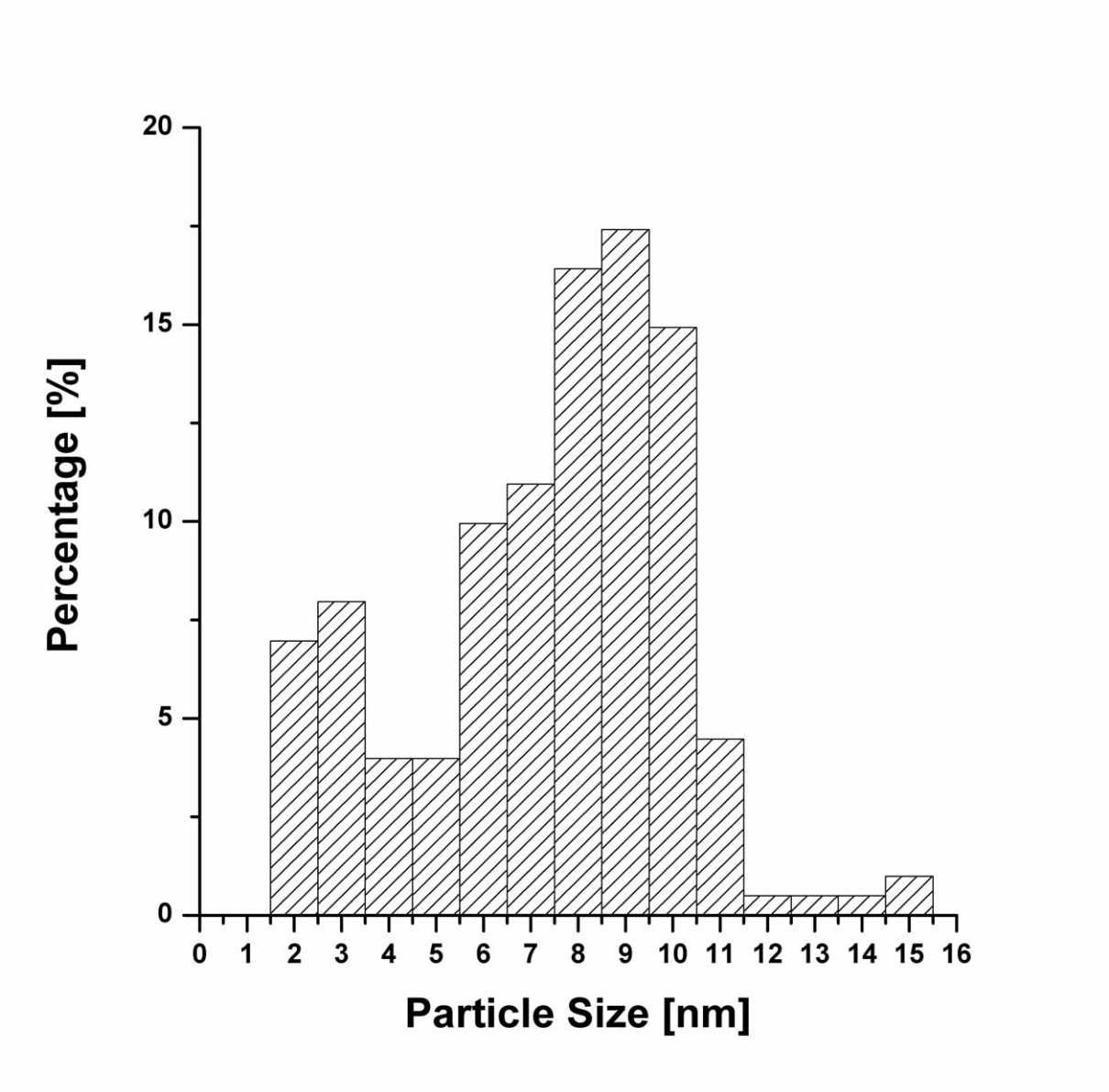


Fig. S1 Particle size distribution of the Cu-Zn-stearate (50:50) colloid.

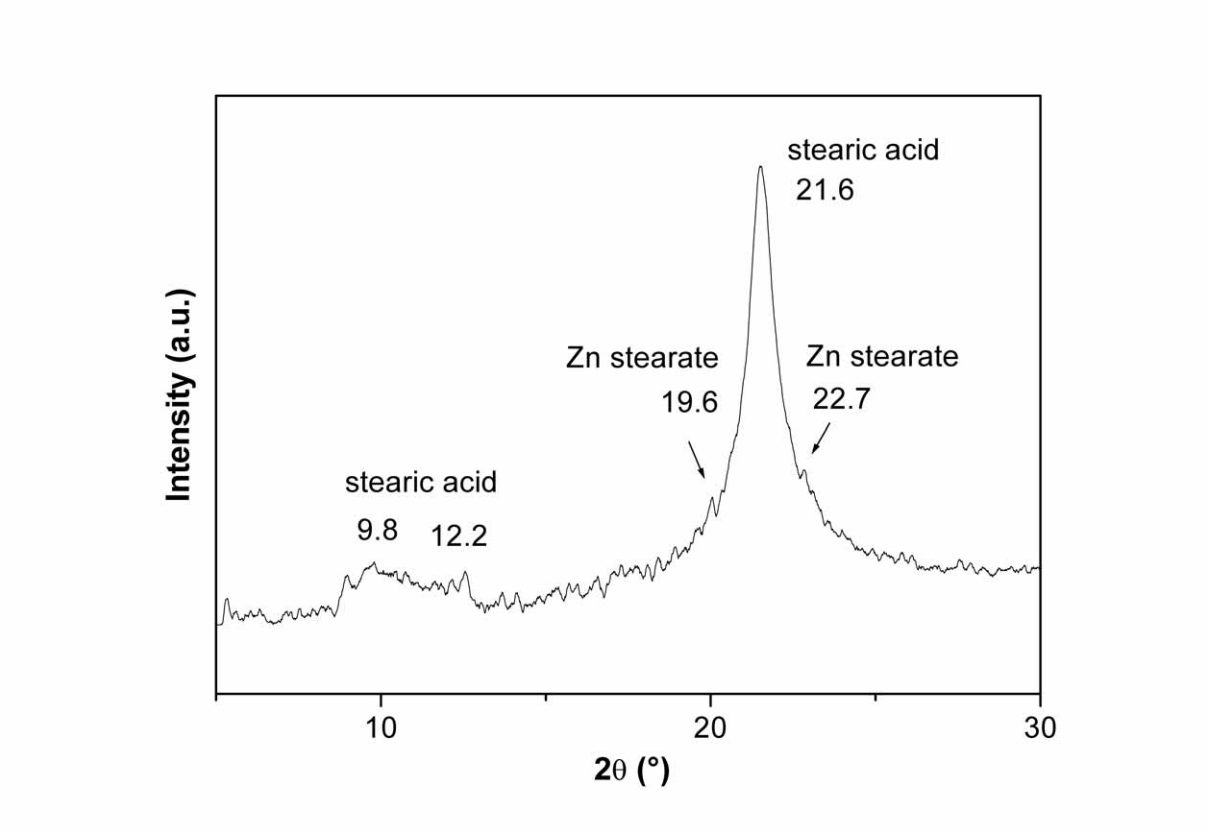
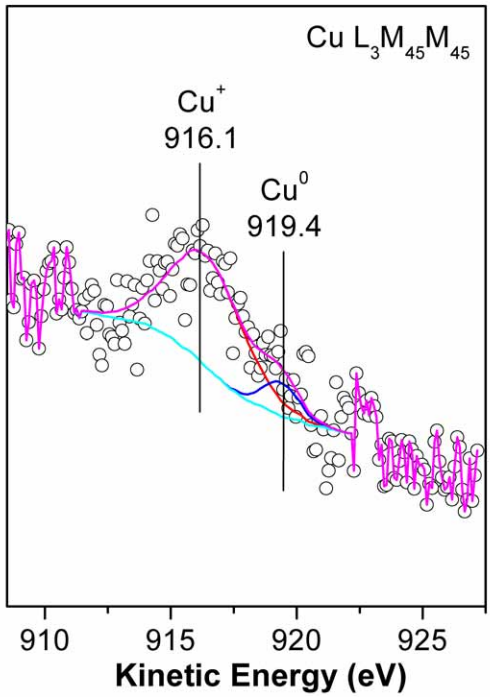


Fig. S2 XRD pattern of the Cu-Zn stearate (50:50) particles in the 2 θ range below 30^0.



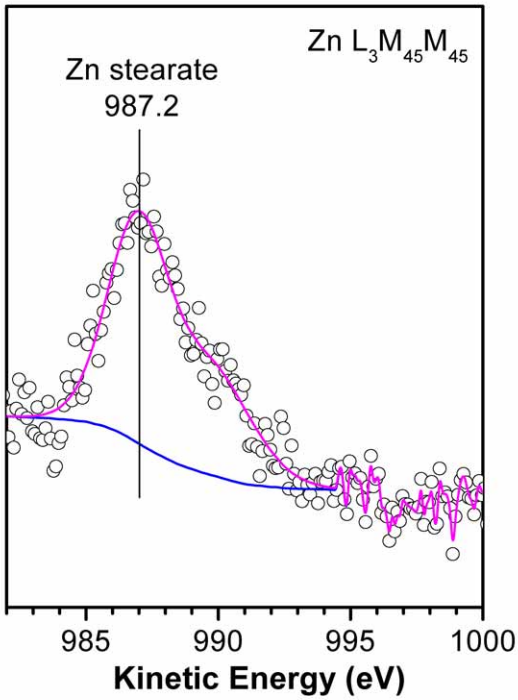


Fig. 3 Auger spectra of the Cu-Zn stearate (50:50) colloid, (a) Cu $L_3M_{45}M_{45}$, (b) Zn $L_3M_{45}M_{45}$.

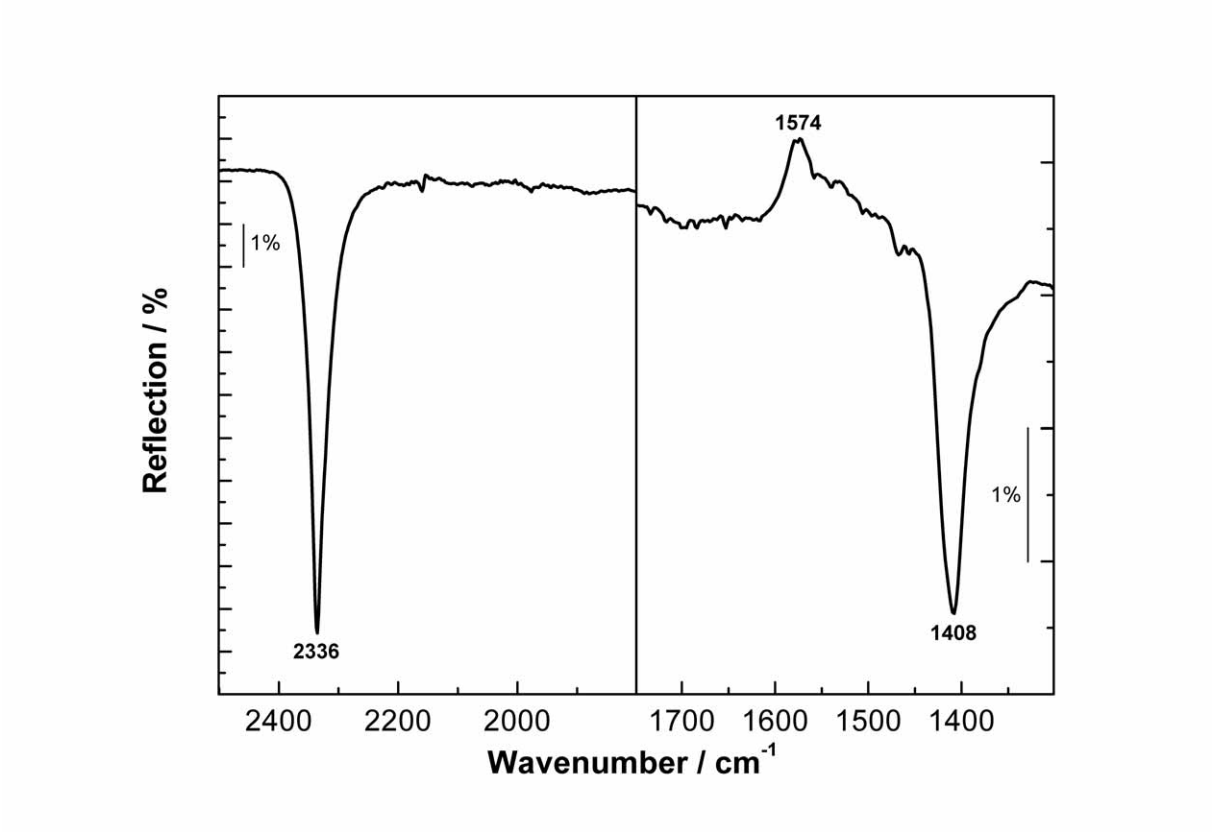


Fig. S4 ATR-FTIR spectrum of the Cu-Zn stearate (50:50) colloid in 100% CO_2 at 1.0 MPa and 473 K.

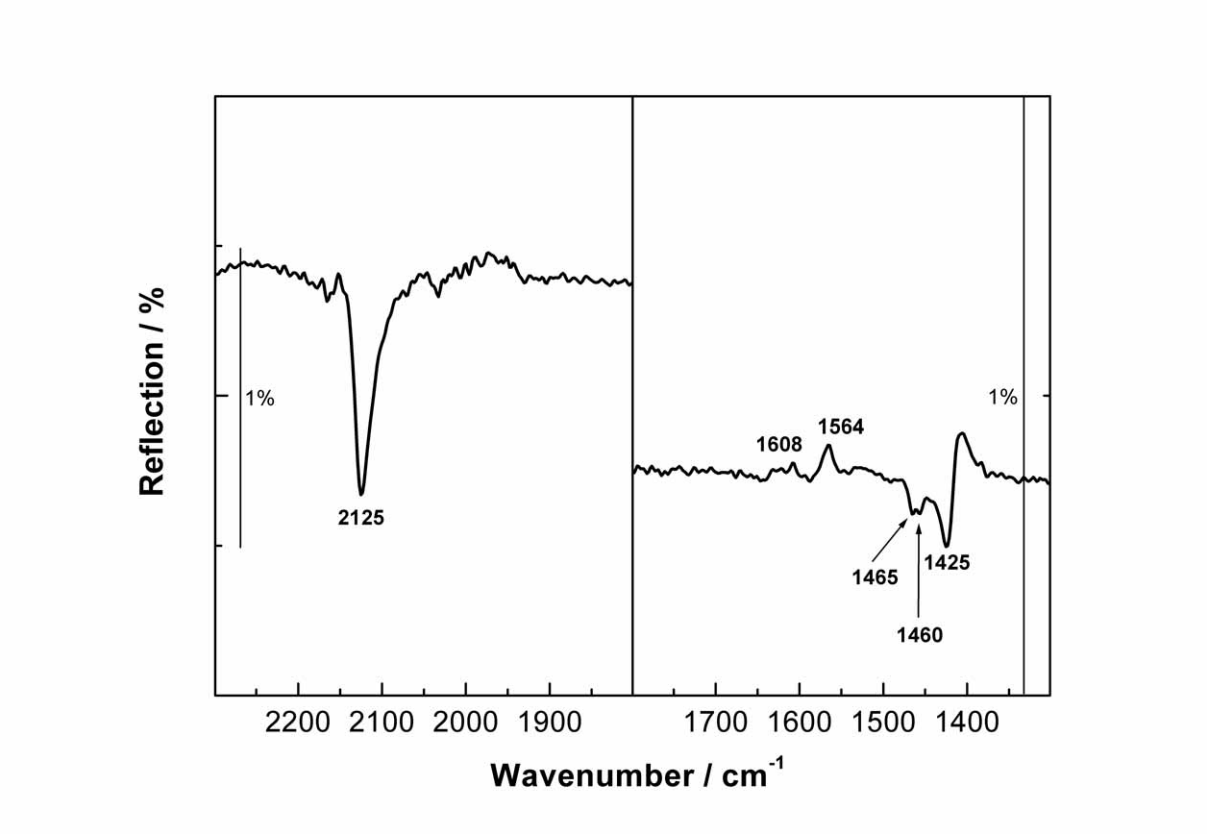


Fig. S5 ATR-FTIR spectrum of the Cu-Al stearate (50:50) colloid in 100% CO at 1.0 MPa and 473 K.