Electronic Supplementary Material (ESI) for Nanoscale.

SUPPORTING INFORMATION

Effect of composition and architecture on the thermodynamic behavior of AuCu nanoparticles

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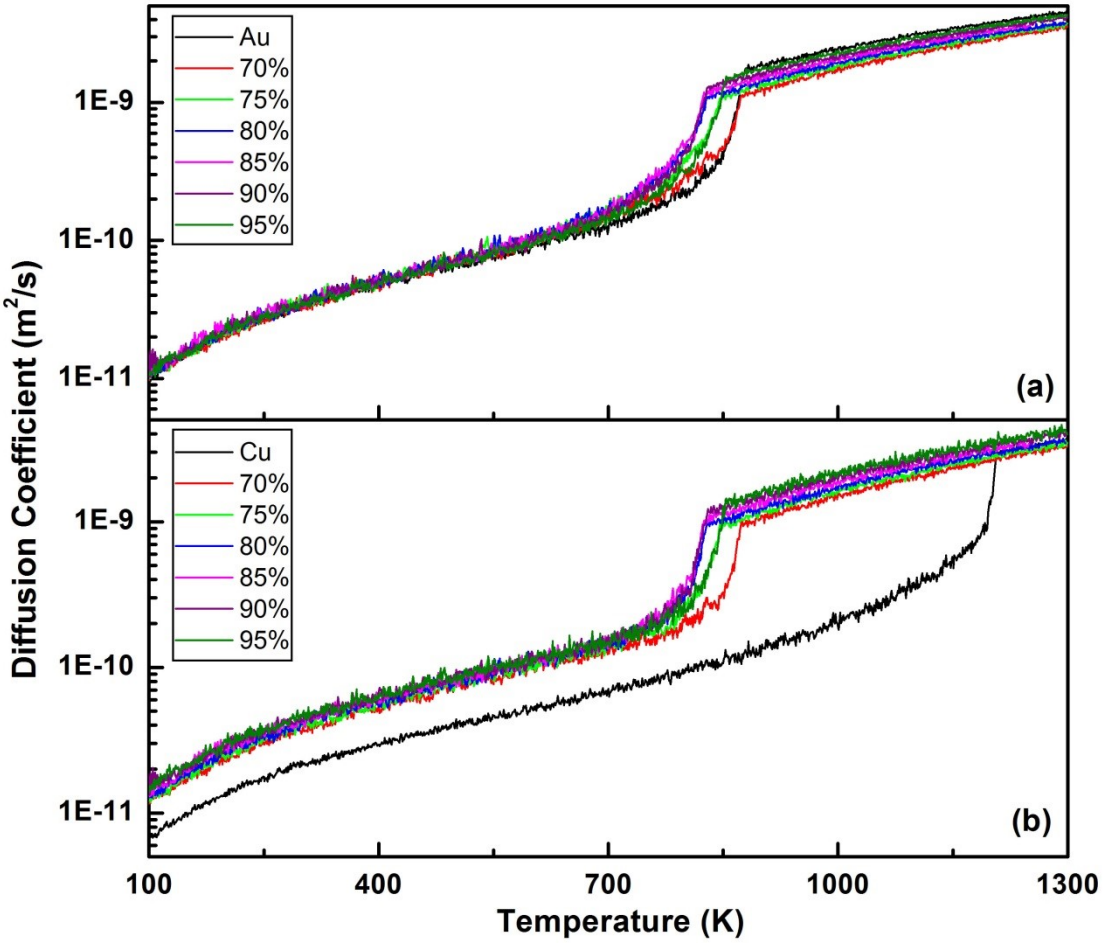

Fig. S1 Temperature-dependent diffusion coefficients of (a) Au atoms in Au and AuCu chemically disordered alloy nanoparticles and Cu atoms in Cu and AuCu chemically disordered alloy nanoparticles.

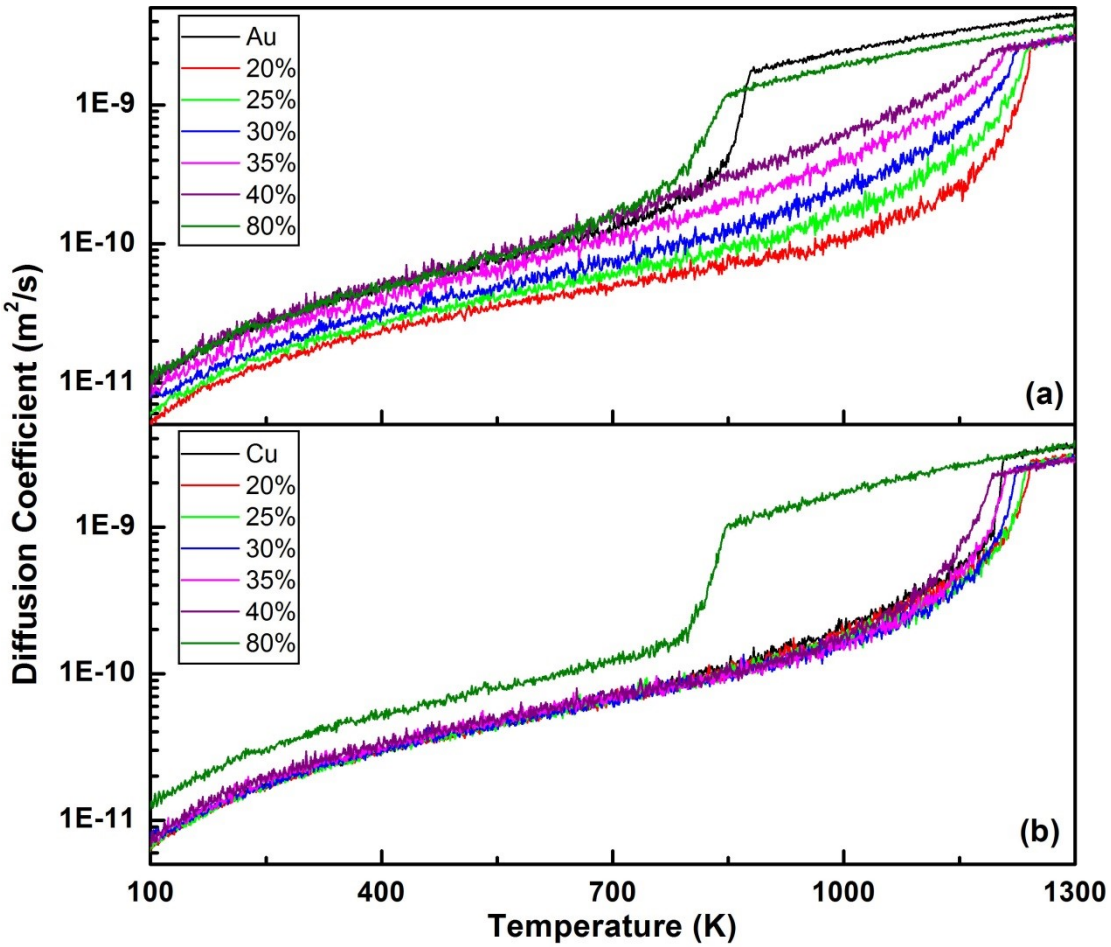

Fig. S2 Temperature-dependent diffusion coefficients of (a) Au atoms in Au and AuCu chemically ordered alloy nanoparticles and Cu atoms in Cu and AuCu chemically ordered alloy nanoparticles.

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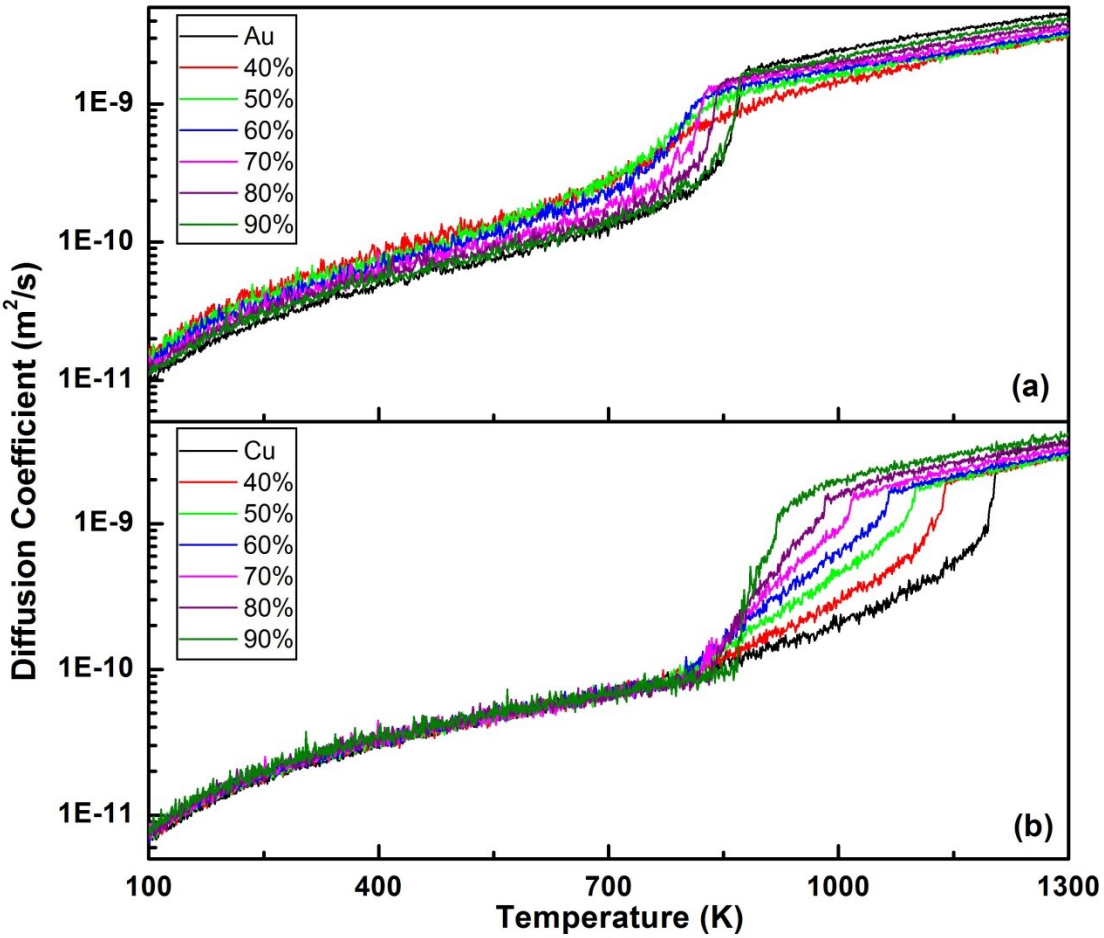

Fig. S3 Temperature-dependent diffusion coefficients of (a) Au atoms in Au and Cu@Au nanoparticles and Cu atoms in Cu and Cu@Au nanoparticles.

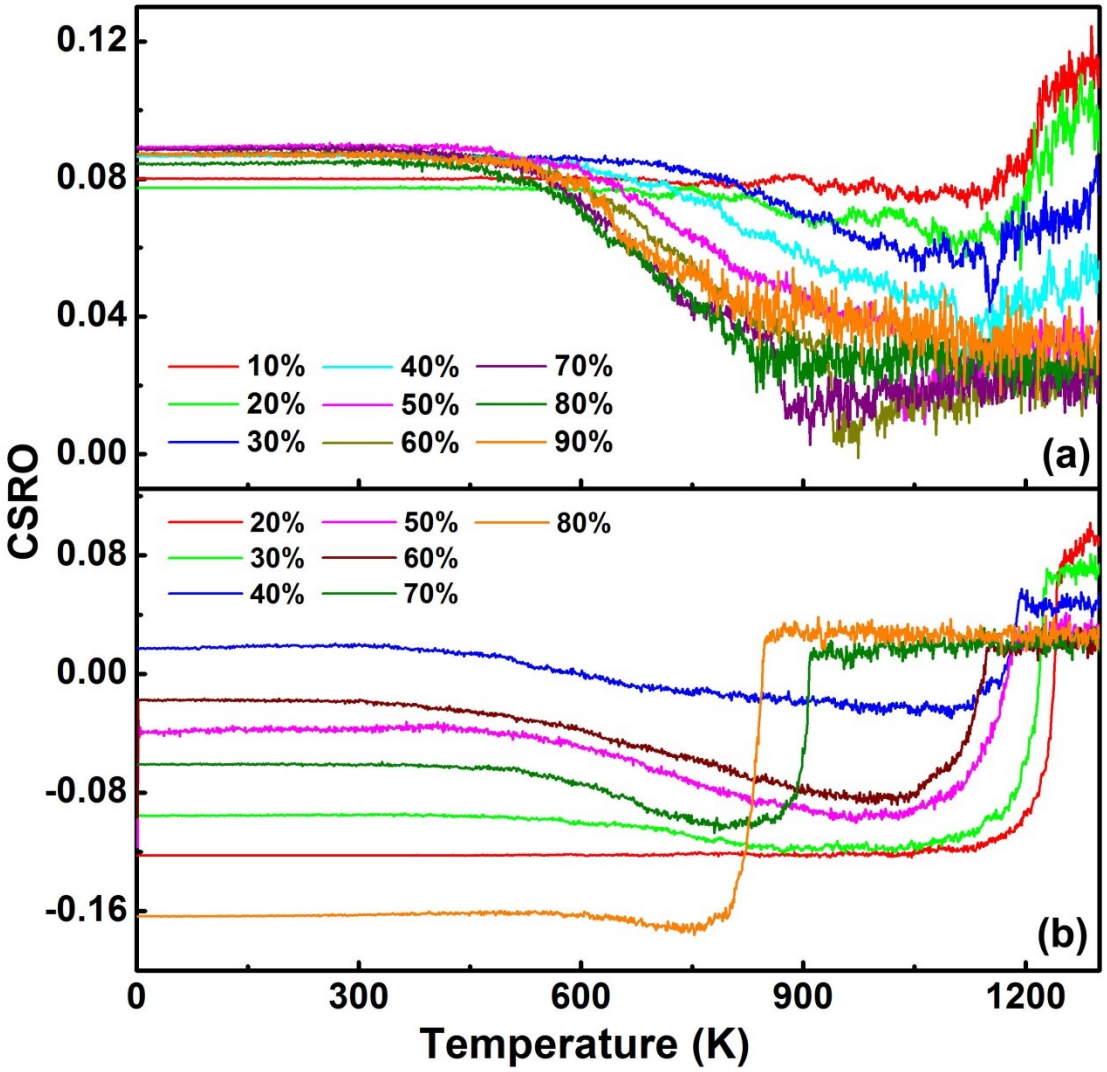

Fig. S4 Chemical short-range order (CSRO) parameters as a function of temperature for (a) chemically disordered and (b) chemically ordered alloy AuCu nanoparticles with different Au contents.

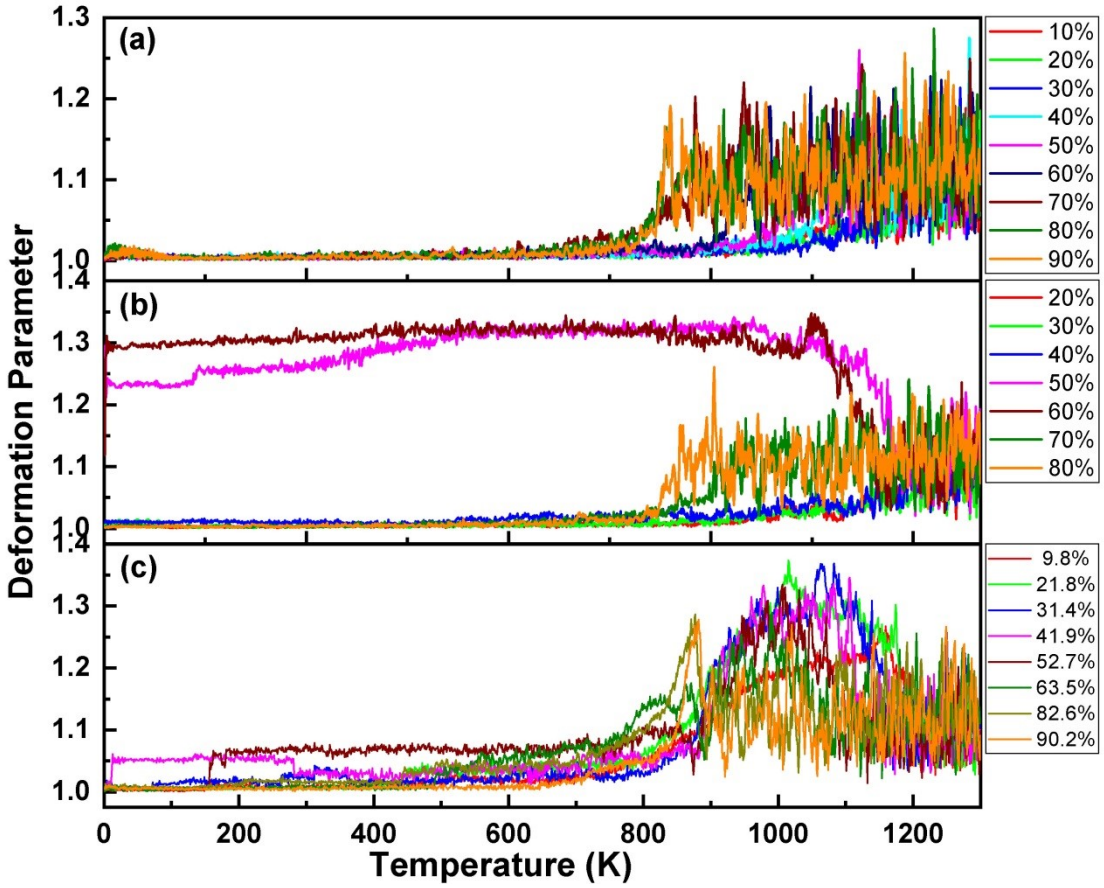

Fig. S5 Temperature-dependent deformation parameters of (a) chemically disordered alloy, (b) chemically ordered alloy, and (c) heterostructured AuCu nanoparticles with different Au contents.