

## Supplementary Information

### **Highly Conductive Short Chain Carboxylic Acids Encapsulated Silver Nanoparticle Based Inks for Direct Write Technology Applications**

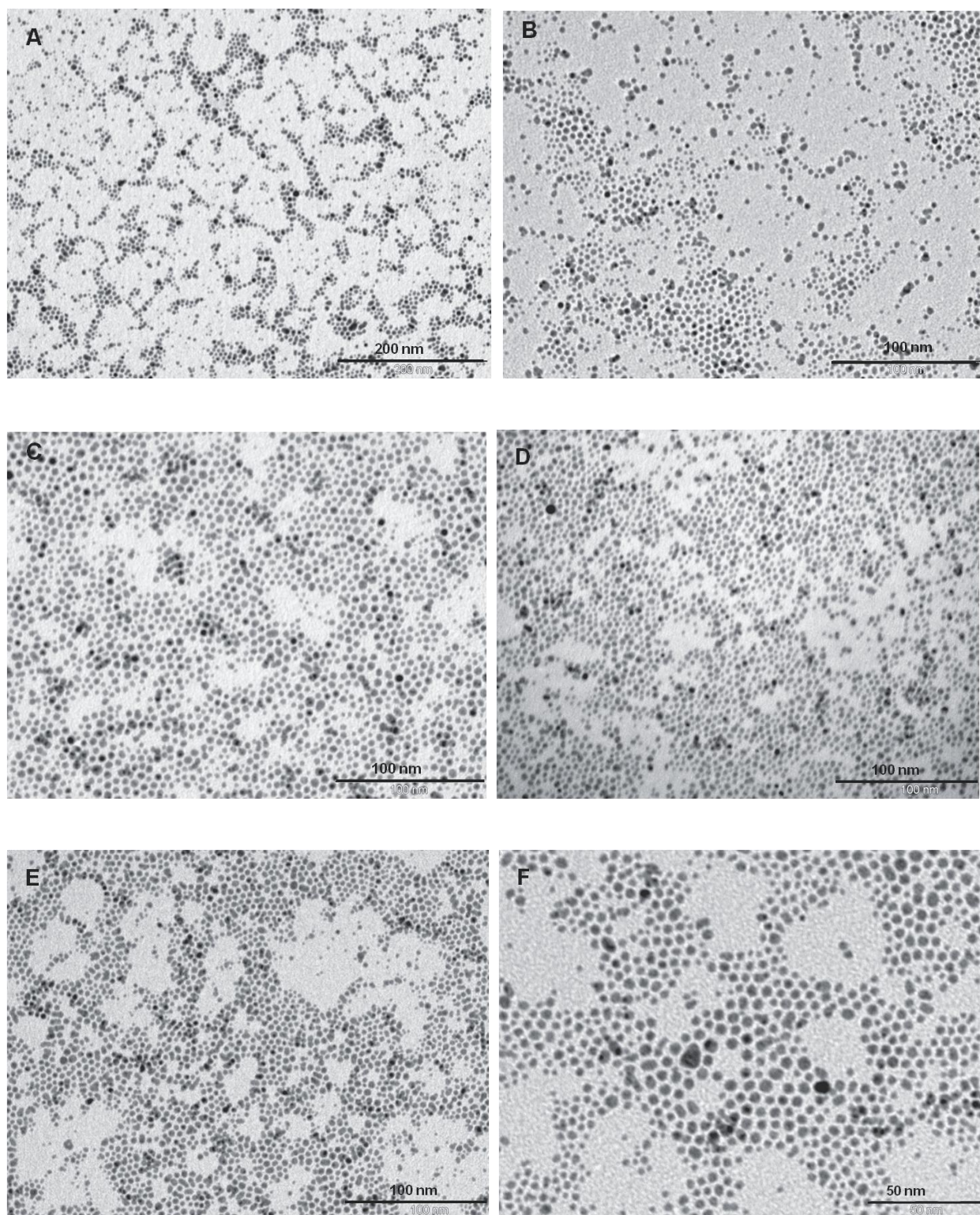
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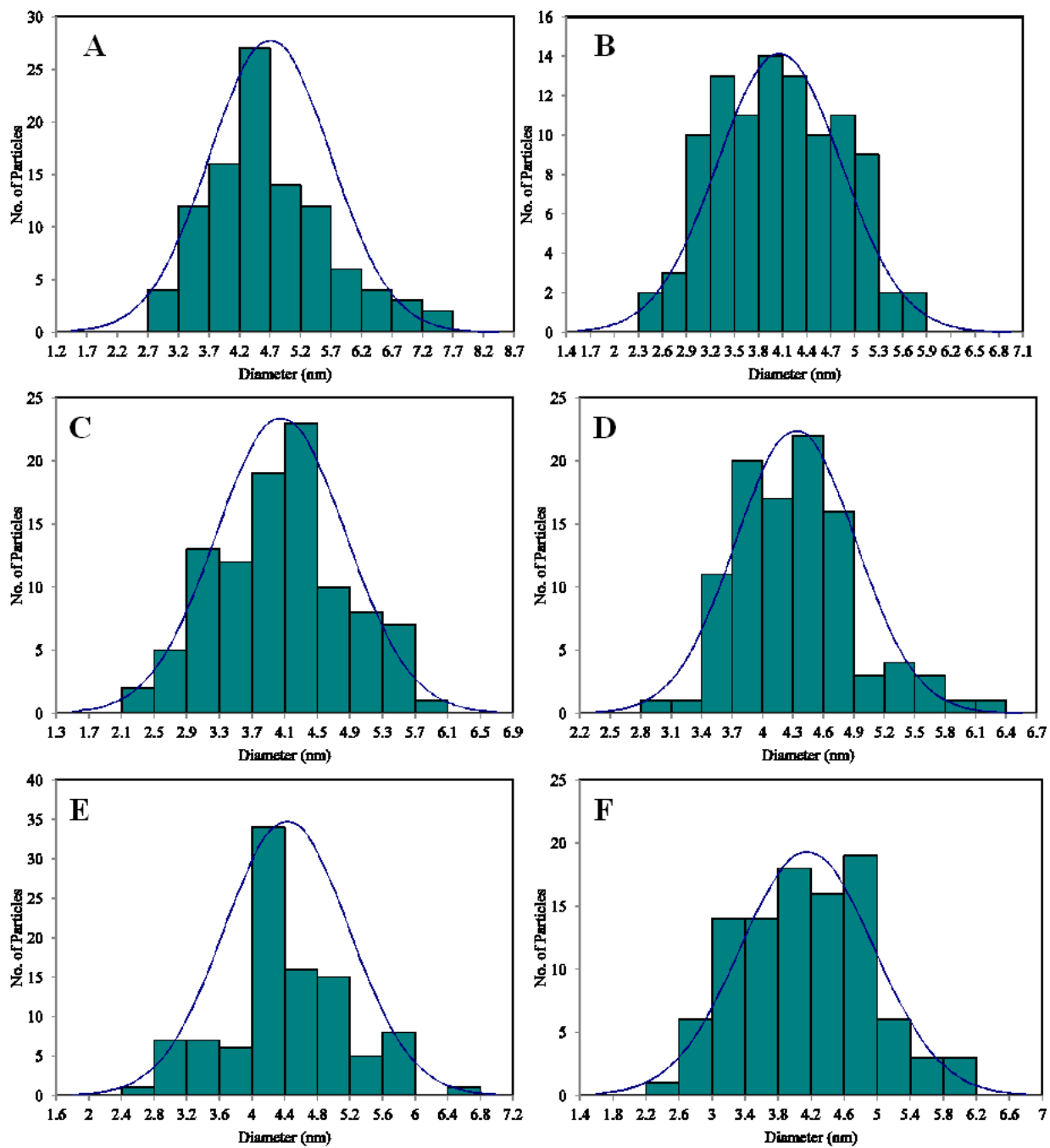
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**Fig. S1** TEM micrographs of various silver nanoparticles (A). C6, (B) C8, (C) C10, (D) C6/C8, (E) C6/C10, (F) C8/C10 Ag NPs.



**Fig. S2** Particle size distribution of (A) C6, (B) C8, (C) C10, (D) C6/C8, (E) C6/C10, and (F) C8/C10.