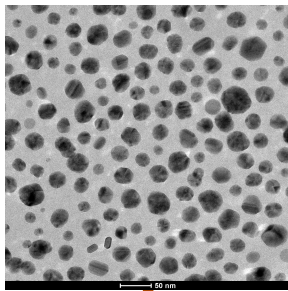


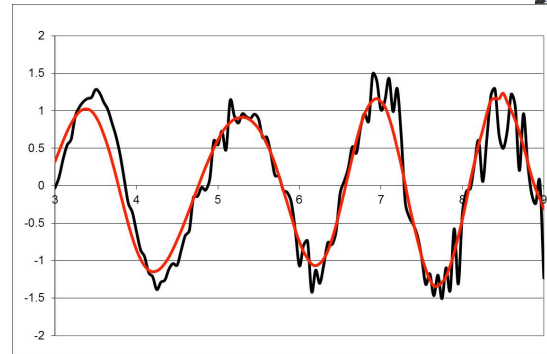
# Ag NPs rapidly transform to Ag<sub>2</sub>S and Ag-S (organic) in natural and engineered systems

Brian Reinsch, Clement Levard, Ben Colman, Nadine Kabengi, Stella Marinakos, Jie Liu, Gordon Brown, Gregory Lowry

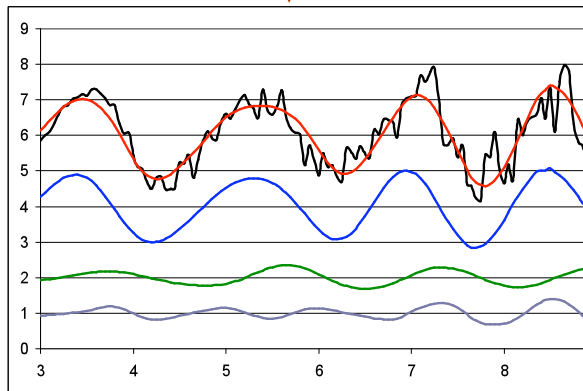
Ag PVP-25 nm



2 weeks



3 months



**Biosolids (anaerobic)**

**100% Ag<sub>2</sub>S**

**Simulated Wetland Sediment**

**85% Ag<sub>2</sub>S**

**15% Ag-S (organic)**

**5% Ag(0)**