

## Supporting Information

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**Figure S1.** TEM micrographs of modified Ag.

**Figure S2.** TEM micrographs of modified Ag with different shell thicknesses.

**Figure S3.** coefficients of friction for samples with different shell thicknesses.

(\***Annotation:** All dimensions in the text are intermediate values of the observation results.)

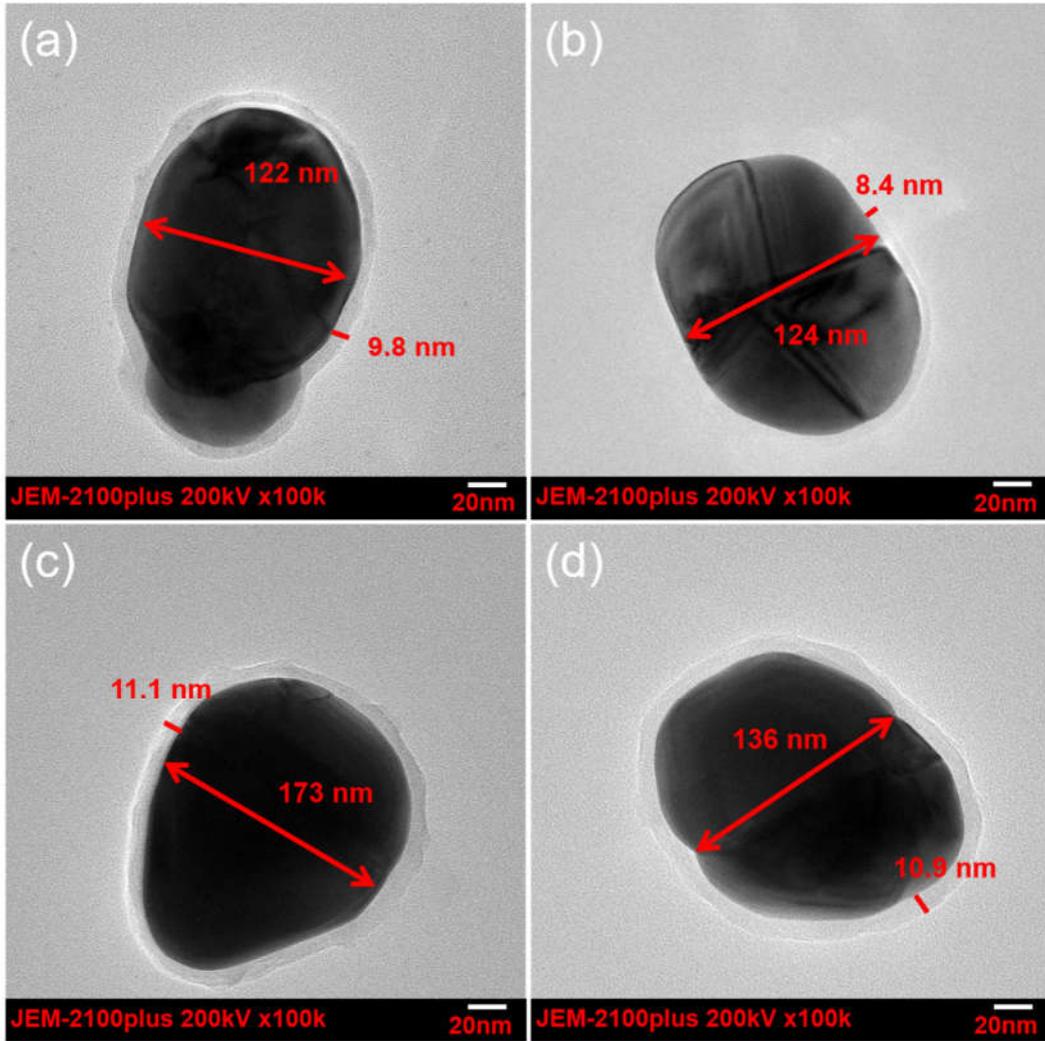


Figure S1. TEM micrographs of modified Ag.

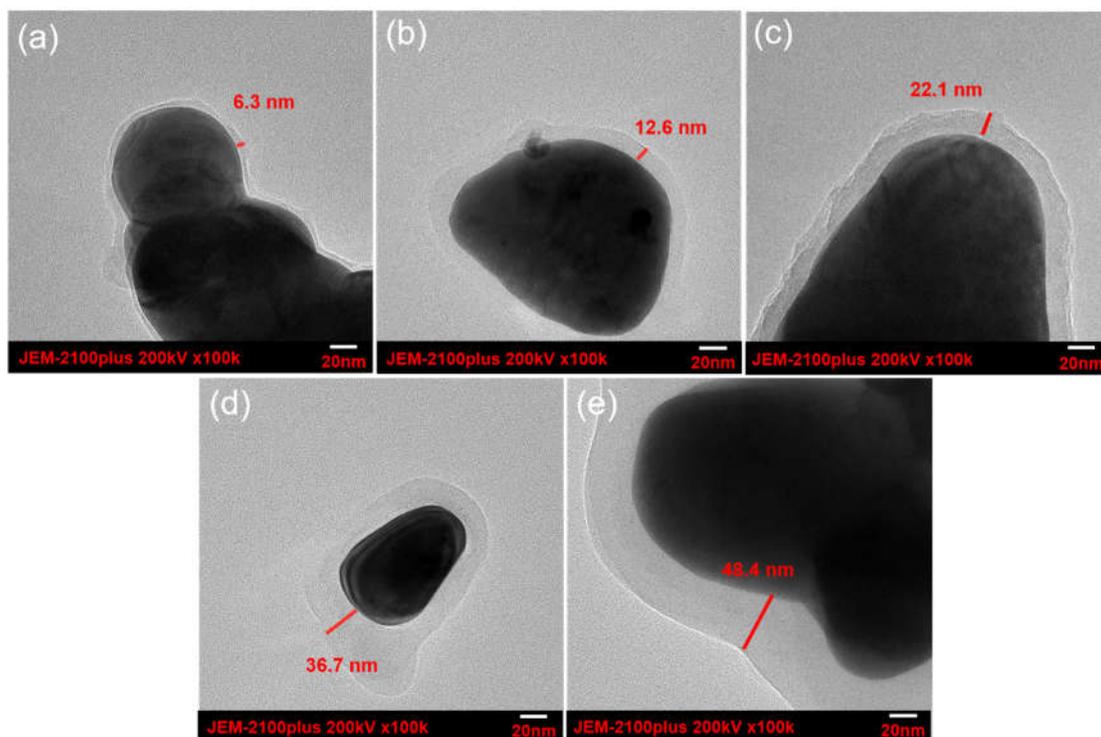


Figure S2. TEM micrographs of modified Ag with different shell thicknesses

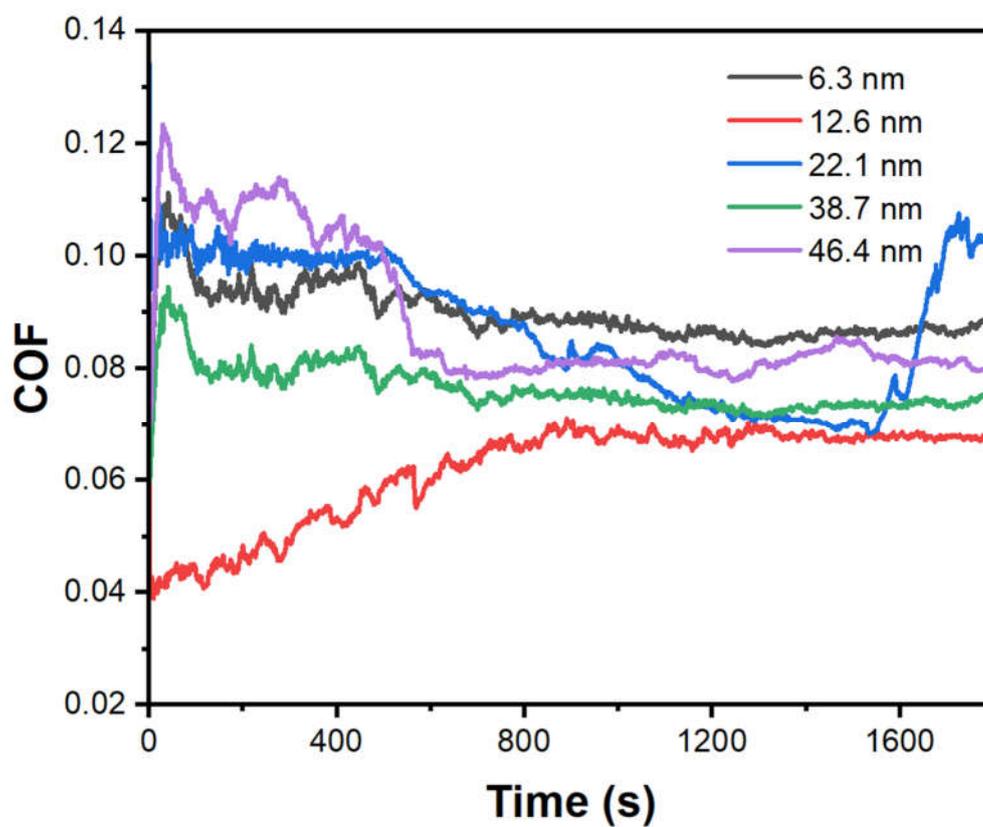


Figure S3. coefficients of friction for samples with different shell thicknesses.