

The Unusual Visible Photothermal Response of Free Standing Multilayered Films Based on Plasmonic Bimetallic Nanocages

Milana Lisunova,^{1,†} Jeremy R. Dunklin,² Samir V. Jenkins,³ Jingyi Chen,^{3,††} D. Keith Roper^{1,2,†††}

¹Ralph E. Martin Department of Chemical Engineering, 3202 Bell Engineering Center,

²MicroElectronics-Photonics Program, Institute for Nanoscience and Engineering,

³Chemistry and Biochemistry,

University of Arkansas, Fayetteville, AR 72701

[†] To whom correspondence should be addressed.

Tel: +1 770 256 8426

Fax: +1 479 575 7926

e-mail: lisunova@uark.edu

[††] To whom correspondence should be addressed.

Tel: +1 479-575-6203

Fax: +1 479-575-4049

e-mail: chenj@uark.edu

[†††] To whom correspondence should be addressed.

Tel: +1 479 575 6691

Fax: +1 479 575 7926

e-mail: dkroper@uark.edu

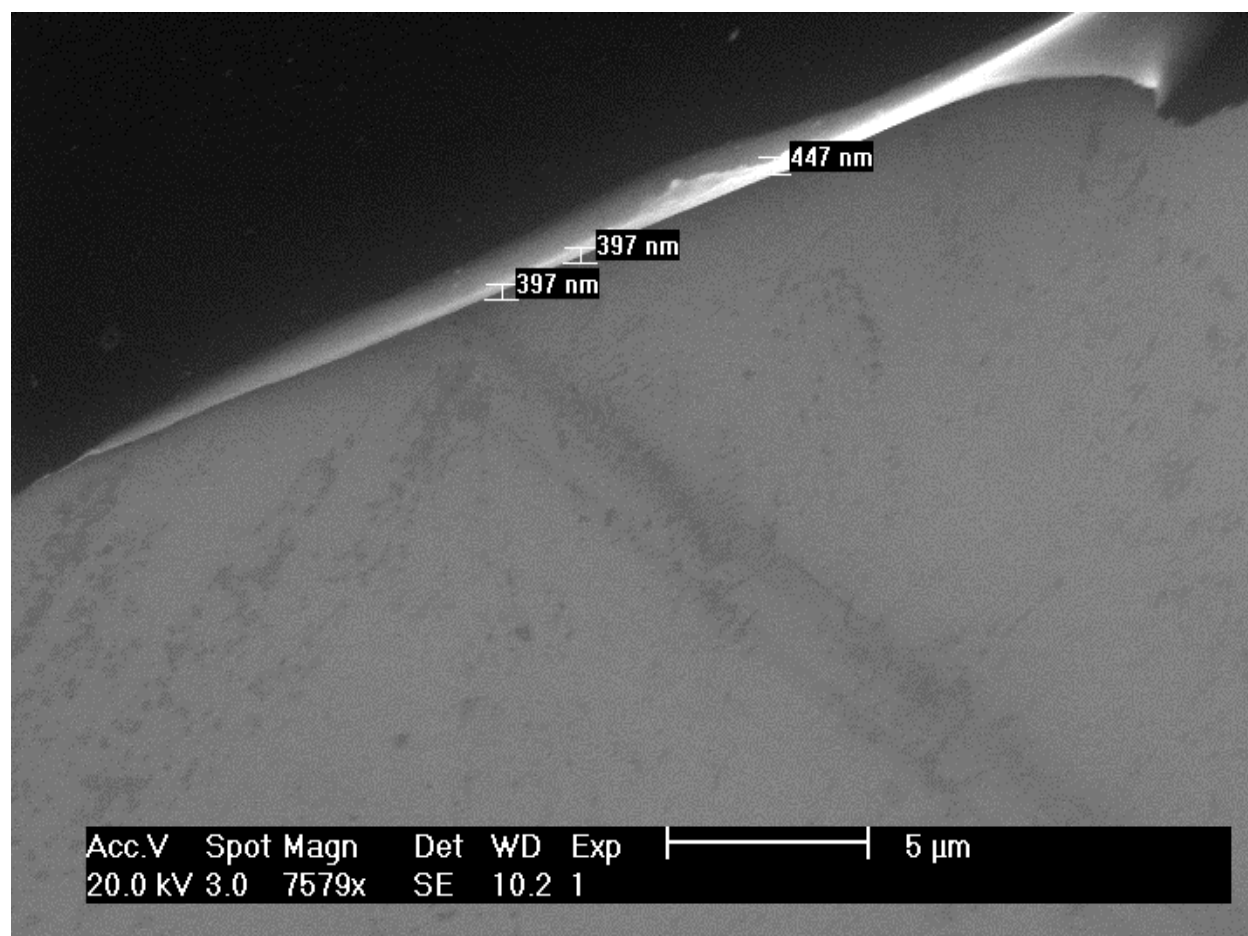


Figure S1. SEM image of the 1 bilayer of the PVA/PVPON_Ag@AuNCs produced of 2mg/ml PVA and 2mg/ml of PVPON with 250fM of Ag@AuNCs

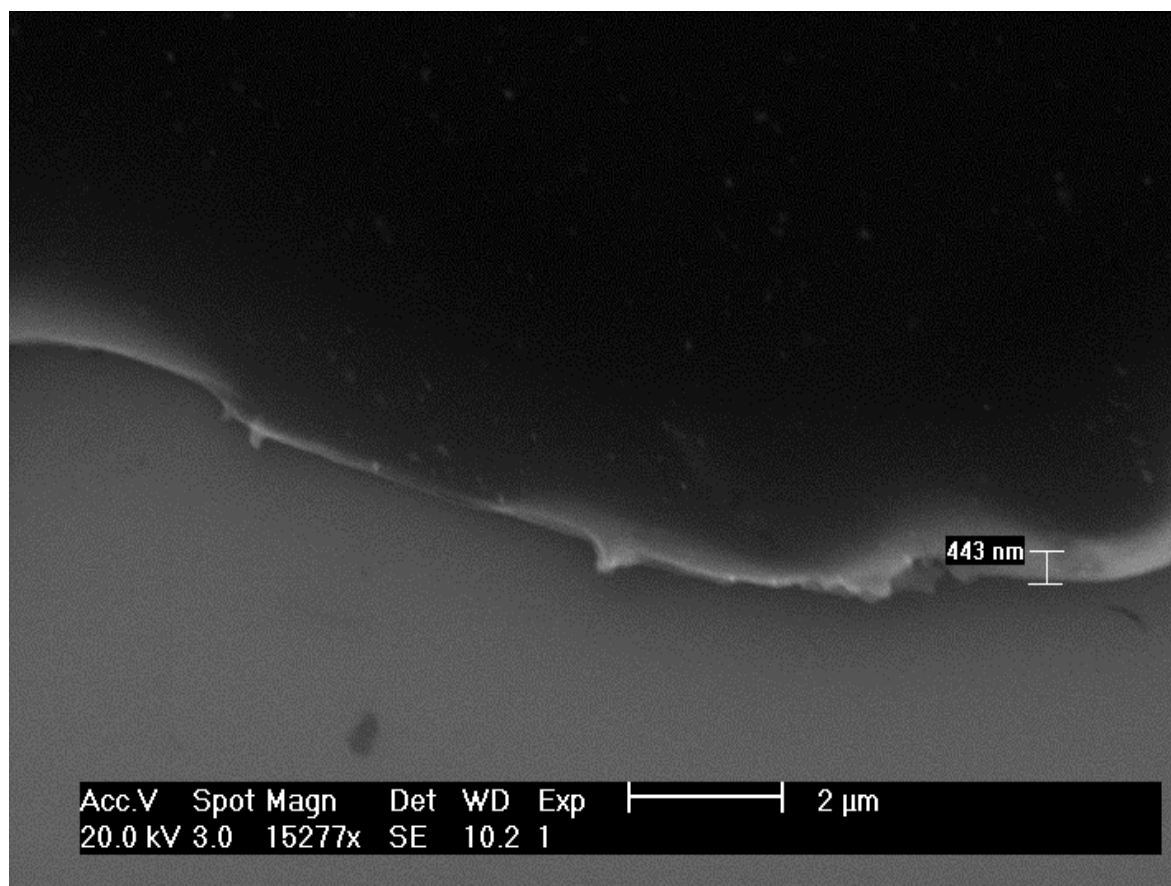


Figure S2. SEM image of the 1 bilayer of the PVA/PVPON_Ag@AuNCs produced of 2mg/ml PVA and 2mg/mlPVPON with 1250fM of Ag@AuNCs

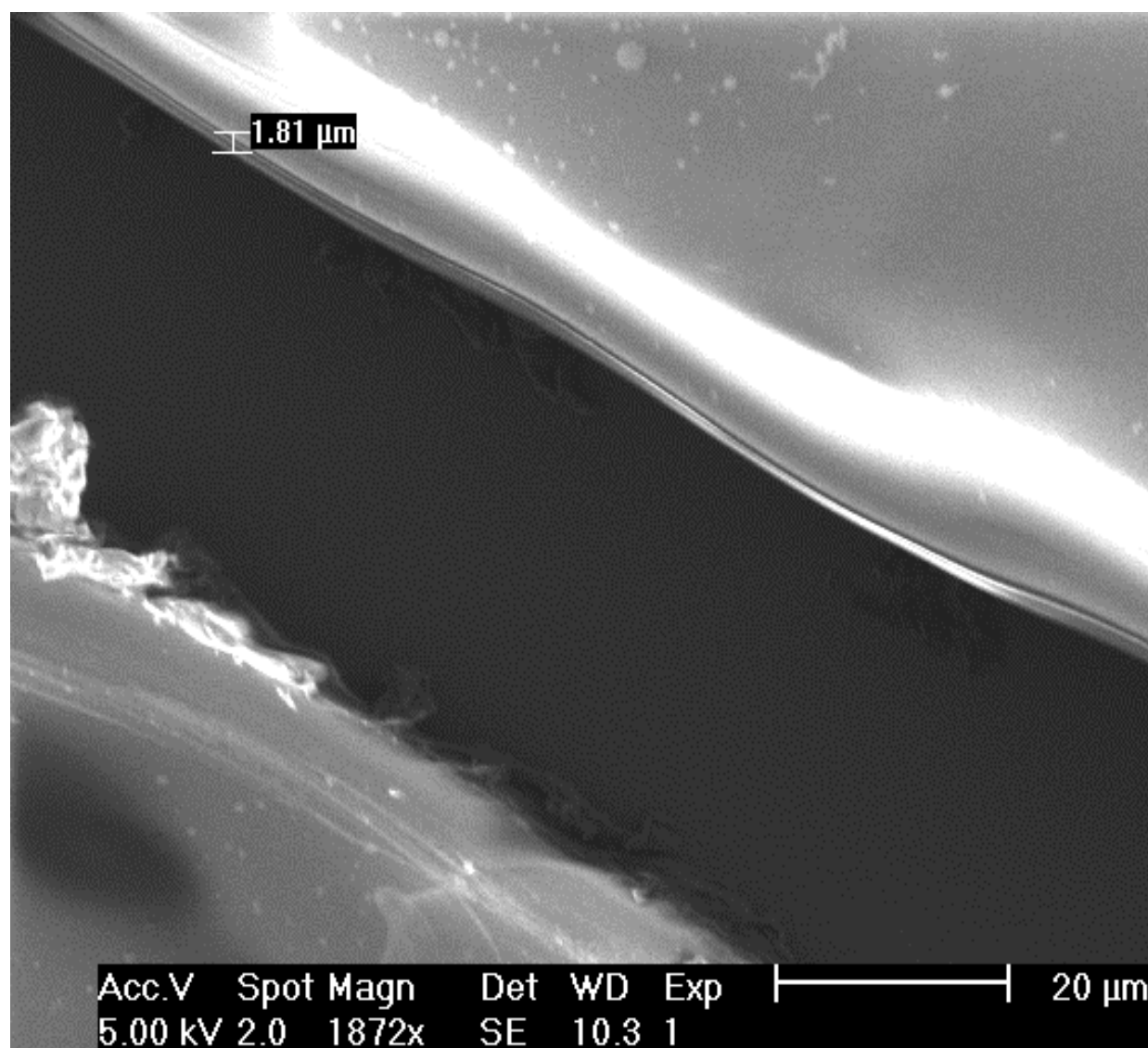
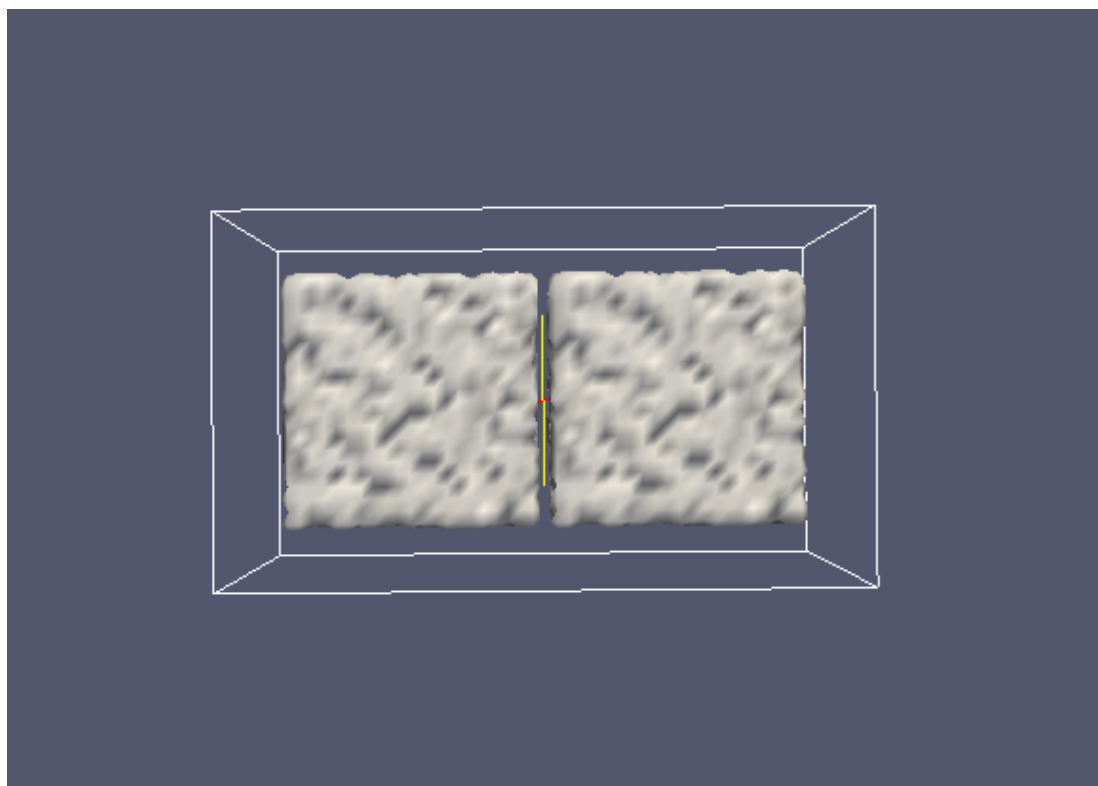


Figure S3. SEM image of the 1 bilayer of the PVA/PVPON_Ag@AuNCs produced of 20mg/ml of PVA and 2mg/ml of PVPON with 1250fM of Ag@AuNCs



or

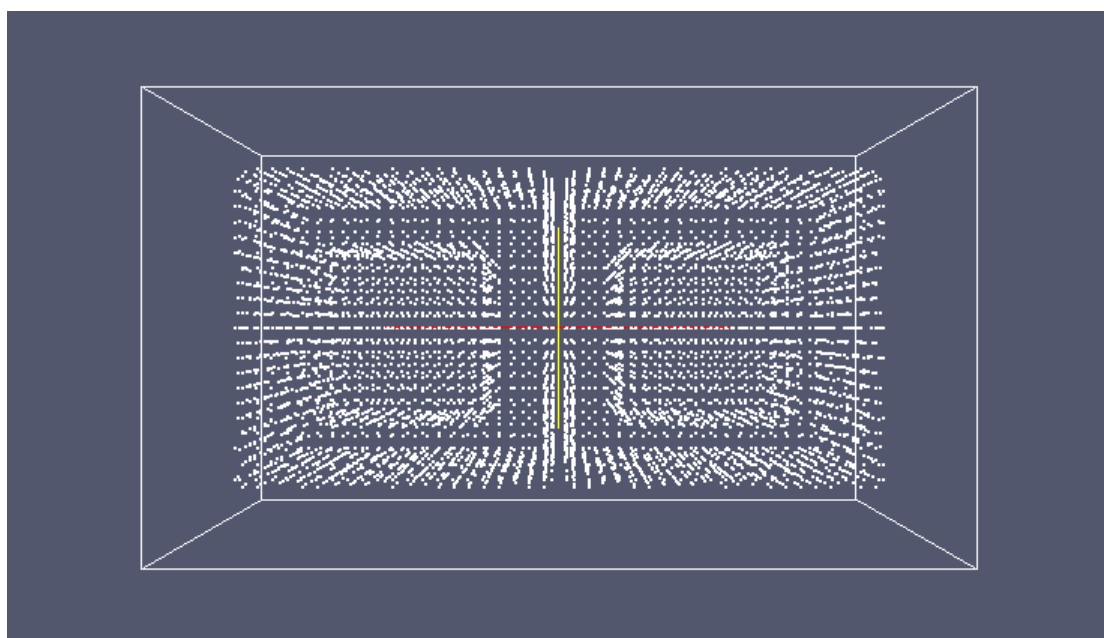


Figure S4. An example of the shape file of the dimers Ag@AuNCs in a regime of the close proximity (of about 2 nm).