

Electronic Supplementary Material

Morphology and electric potential-induced mechanical behavior of metallic porous nanostructures

Sunghan KIM^{1,*}, Andreas A. POLYCARPOU², Hong LIANG^{2,*}

¹ School of Mechanical Engineering, Chung-Ang University, Seoul 06974, Republic of Korea

² Department of Mechanical Engineering, Texas A&M University, College Station 77843-3123, USA

Supporting information to <https://doi.org/10.1007/s40544-019-0307-1>

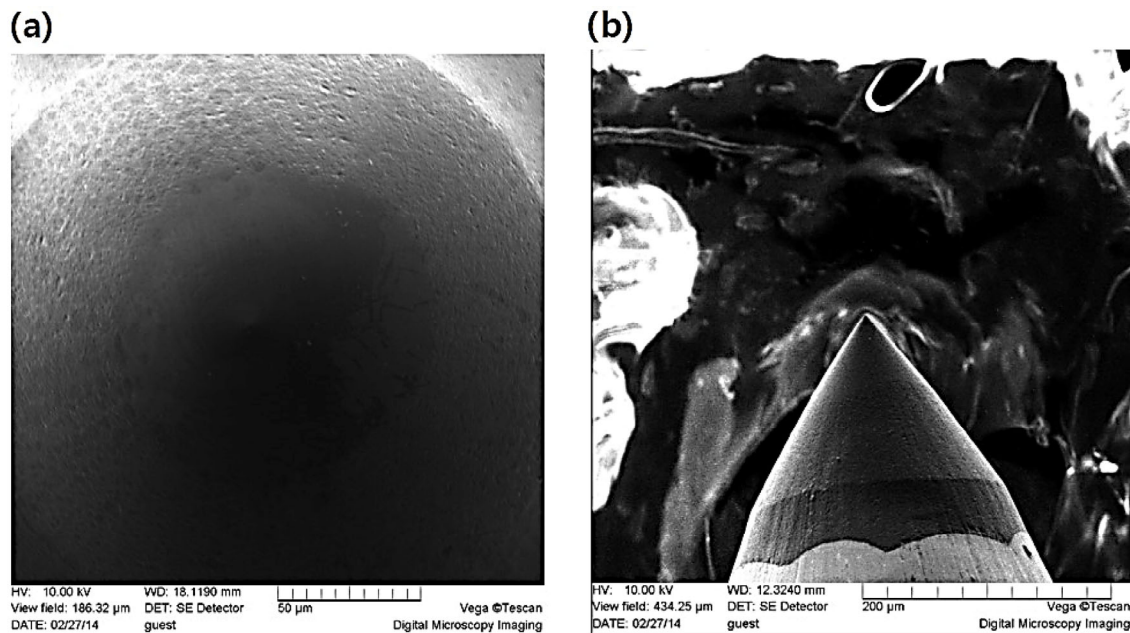


Fig. S1 SEM images of the conical indenter tip. (a) Top view of the conical tip and (b) side view of the conical tip.

* Corresponding authors: Sunghan KIM, E-mail: sunghankim@cau.ac.kr; Hong LIANG, E-mail: hliang@tamu.edu

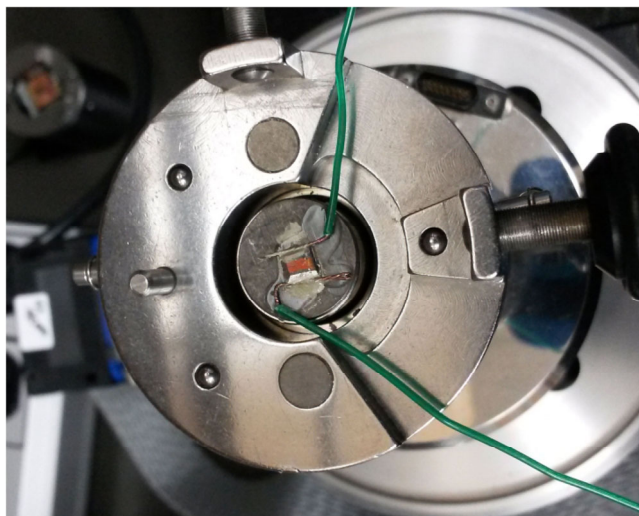


Fig. S2 Experimental setup for nanoindentation of the metallic porous nanostructure with applied electric potential.

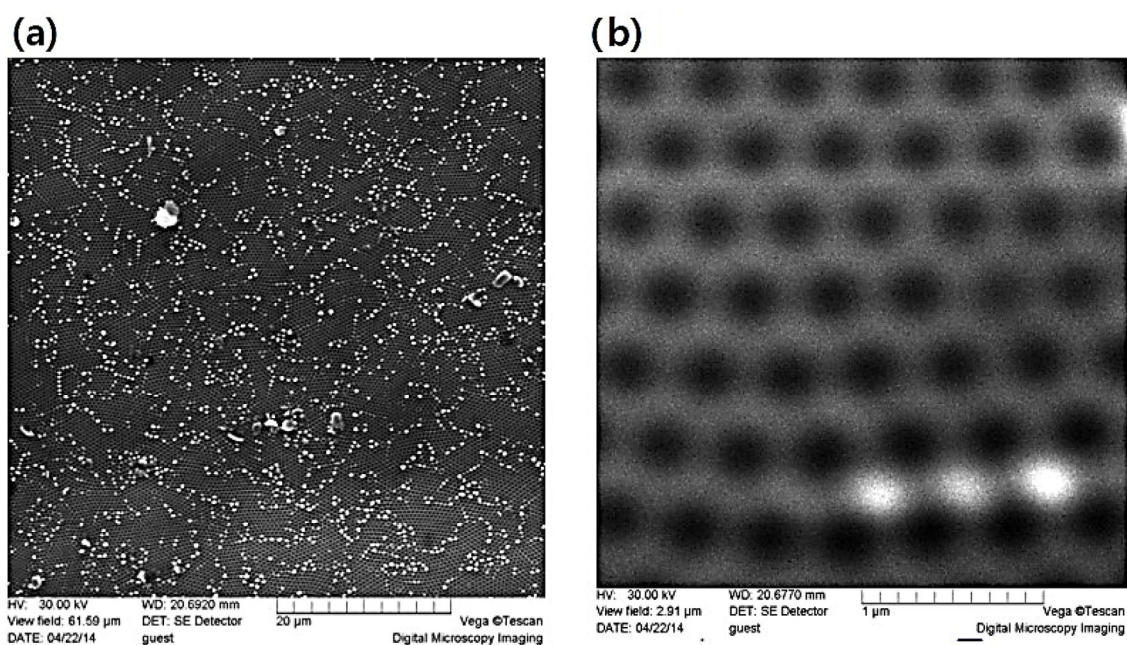


Fig. S3 (a) Zoomed-out SEM top-view image of 350 nm metallic porous nanostructures and (b) zoomed-in image of (a).