Online Support Information

Spontaneous Phase Transformation and Exfoliation of Rectangular Single-Crystal Zinc Hydroxy Dodecylsulfate Nanomembranes

Fei Wang¹,², Joseph E. Jakes³, Dalong Geng¹, Xudong Wang¹,*

1. Department of Materials Science and Engineering, 2. Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706, USA
3. Forest Biopolymer Science and Engineering, USDA Forest Service, Forest Products Laboratory, Madison, WI 53726, USA

*email: xudong@engr.wisc.edu
Figure S1. X-ray photoelectron spectra of (a) hexagonal ZHDS sheets and (b) rectangular ZHDS sheets on silicon substrates with quantitative elemental composition listed on the right.
Figure S2. X-ray diffraction pattern of the ZnO nanosheets that precipitated upon adding acetone to n-butylamine.
Figure S3. SEM image (a) and high-resolution TEM image (b) of exfoliated ZnO nanosheets.
Figure S4. AFM topography image of an exfoliated ZnO nanosheet as thin as 4 nm.