Supporting Information

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Supporting information for
Self-Assembly of ZnO Nanorods and Nanosheets into Hollow Microhemispheres and Microspheres

By Maosong Mo, Jimmy C. Yu, Lizhi Zhang, and Siu-Kong Andrew Li

SI-1. EDS spectrum of the ZnO nanorod-based hollow-hemisphere assemblies. The Au peaks are from the Au cladding sprayed on the sample for SEM observations.
SI-2. SEM image of the nearly vertically-oriented ZnO nanorod films grown on a zinc foil under the same experimental conditions but without PSS.
SI-3. SEM images of the hierarchical nanosheet-based assemblies obtained in the presence of 8g of PSS.
SI-4. In some synthesis runs, ZnO multimers (Figure A, as marked by arrows) and multipolar shells (Figure B) were observed in the products deposited in the bottom of the Teflon liner (not on the zinc foil).
SI-5. TEM images of some “face-to-face” partly-interconnected hollow hemispheres.
SI-6. Additional TEM and HRTEM images showing many tiny rods attached side-by-side to the end of the “mother” nanorods.
SI-7. Room-temperature cathodoluminescent (CL) spectra obtained from a) the outer surface and b) the inner surface of individual nanorod-based microhemispheres, as well as c) the individual nanosheet-based microspheres, respectively.