

Supporting Information

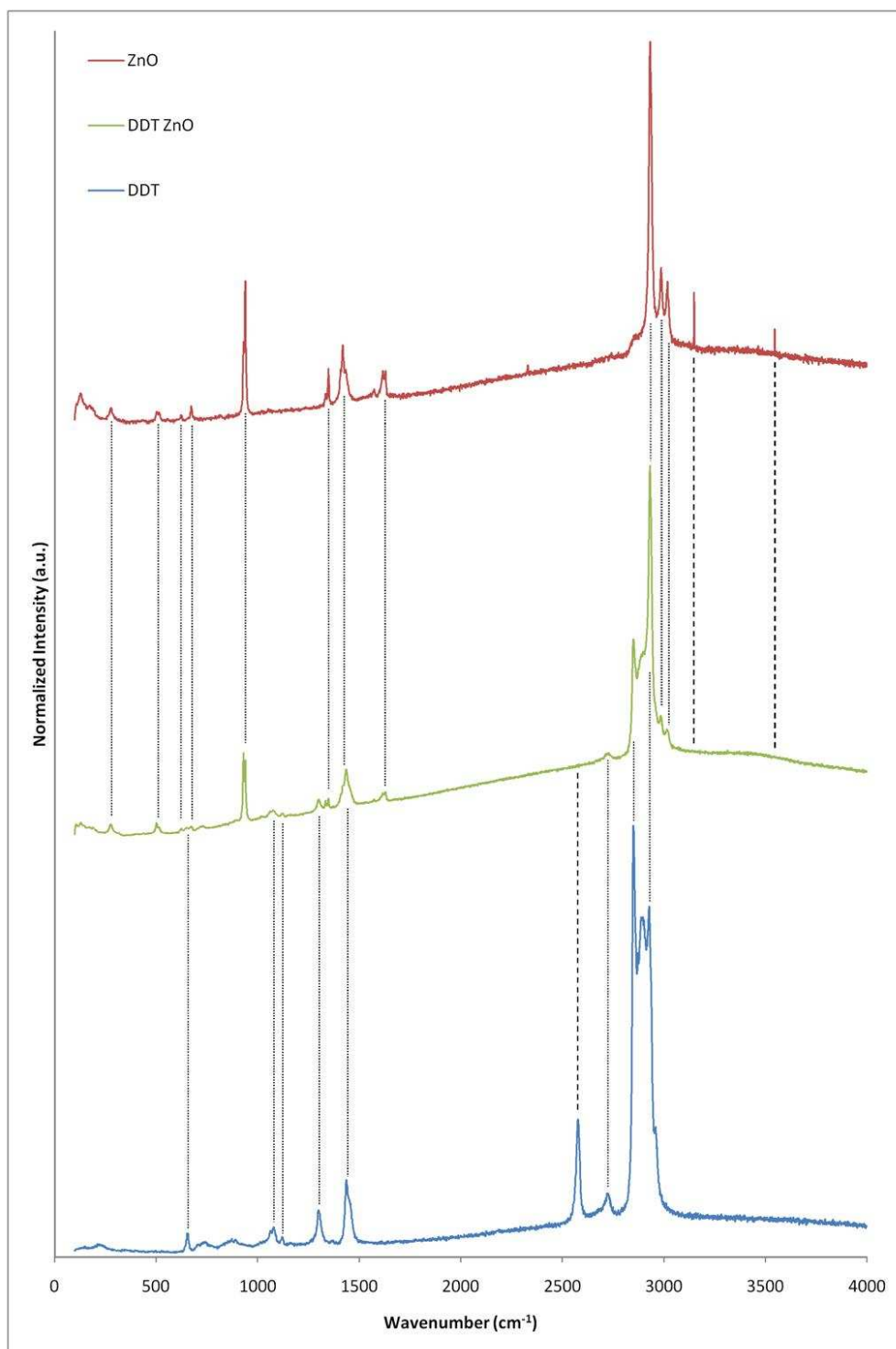


Figure S1. Raman spectra of ZnO nanoparticle, dodecanethiol-modified ZnO and dodecanethiol samples (from top to bottom). Both ZnO and dodecanethiol-modified ZnO samples were prepared as solid powders by evaporating the colloid solutions. Dodecanethiol was used as purchased in liquid form at room temperature. All spectra were obtained using a Renishaw System 1000 Raman microscope (Renishaw plc Wotton-under-Edge Gloucestershire, England) under a X50 objective with a HeNe laser giving 10mW of 633nm radiation at the sample. Resolution of better than 4 cm^{-1} was obtained in all cases. The system was first calibrated to the 520.5 cm^{-1} band of a silicon wafer and spectra were taken over four (4) accumulations of scans from $4000 - 100\text{ cm}^{-1}$ using a 40 sec time constant.