

CHEMPHYSICHEM

Supporting Information

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Efficient Plasmonic Dye-Sensitized Solar Cells with Fluorescent Au-Encapsulated C-Dots

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cphc_201300958_sm_miscellaneous_information.pdf

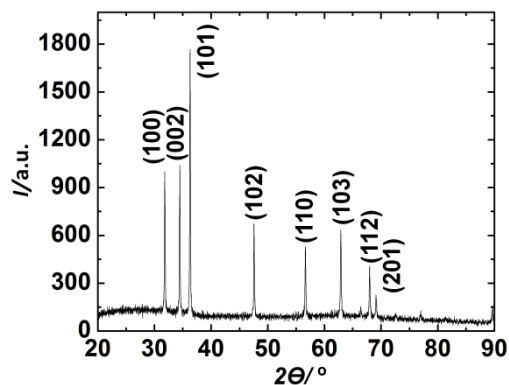


Figure S1 X-ray diffraction pattern of ZnO nanorods, the hkl values are expressed within parentheses.

X-ray diffraction of ZnO was performed on a XRD, PANalytical, X'PertPRO instrument with Cu-K α ($\lambda = 1.5406 \text{ \AA}$) radiation. The observed d-values match well with the hexagonal crystal structure of ZnO in accordance with the PDF file number 891397.

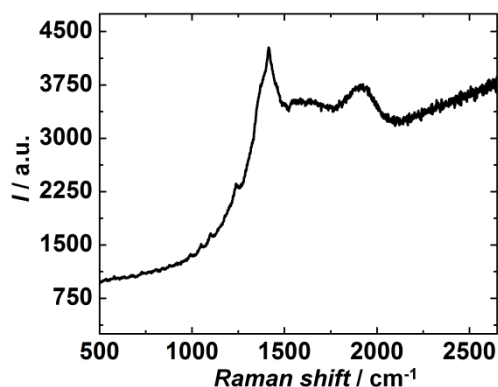


Figure S2 Raman spectrum of Au@C-dots.

A Bruker Senterra dispersive micro Raman spectrometer with a 532 nm laser was used for recording the Raman spectrum of Au@C-dots. The Raman spectrum of Au@C-dots shows a peak at 1413 cm^{-1} which is attributed to the D band, characteristic of sp^3 hybridized carbon in C-dots.