## Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2016

## **†Supporting Information**

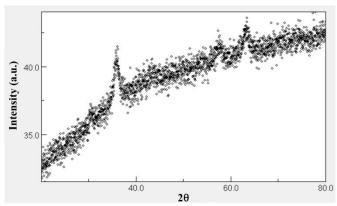
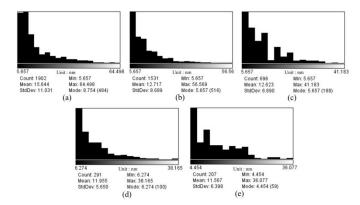
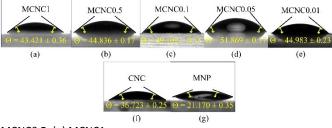


Fig. S.1. XRD pattern of MCNC0.05 composites.



**Fig. S.2.** Histogram of MNPs for all MCNC samples obtained from ImageJ analysis. (a) MCNC0.01, (b) MCNC0.05, (c) MCNC0.1, (d)



MCNC0.5, (e) MCNC1.

**Fig. S.3.** Contact angle of water droplet on the surface of a thin film of (a) MCNC1, (b) MCNC0.5, (c) MCNC0.1, (d) MCNC0.05, (e) MCNC0.01, (f) CNC, and (g) MNP.