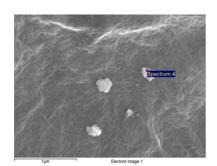
Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2016

## Electronic Supplementary Information (ESI)

Element analysis was conducted on the surface of copper-containing nanoparticles by using energy dispersive X-ray spectroscopy (EDS).

Test 1



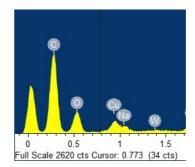
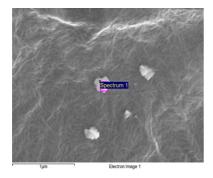


Fig. 1: SEM image (left) and EDS analysis (right) of TOCNF surface after Cu(II) sorption (analysis point one)

Element	Weight%	Atomic%
СК	63.59	73.06
O K Cu L	29.49 6.91	25.44 1.50
Totals	100.00	

Test 2



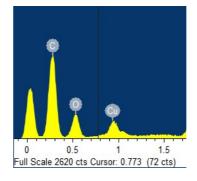


Fig. 2: SEM image (left) and EDS analysis (right) of TOCNF surface after Cu(II) sorption. (analysis point two)

Element	Weight%	Atomic%	
C K O K Cu L	62.37 27.71 9.92	73.34 24.46 2.20	
Totals	100.00		