



Figure S1. The powder XRD patterns of prepared HDA-capped carbon dots.

Furthermore, the X-ray diffraction (ATX-G, Rigaku, with Cu K α radiation) shown in figure S1, HDA-capped carbon dots showed the poor crystallization, and (002) interlayer spacing was 4.18 Å, which was larger than that of bulk graphite (3.3 Å) due to the introduction of oxygen containing functional groups [16].