Electronic Supplementary Material (ESI) for Nanoscale.
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Facile Synthesis of Analogous Graphene Quantum Dots with Sp^2 Hybridized Carbon Atoms Dominant Structure and Their Photovoltaic Application

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Supporting Information

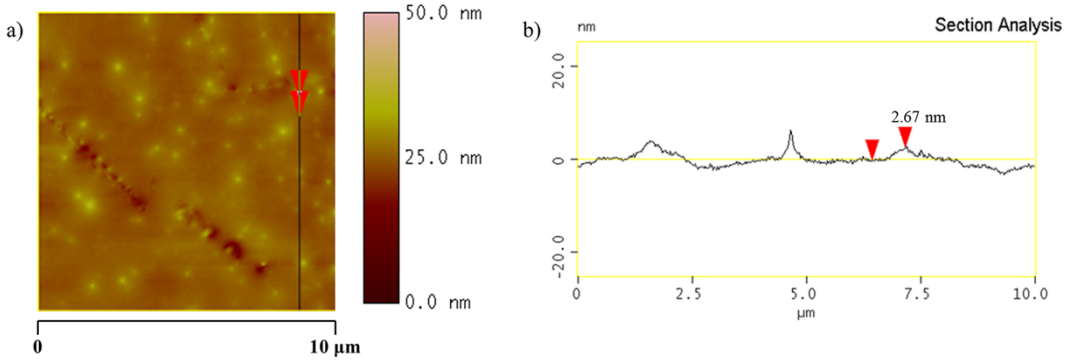

Figure S1. a) AFM image of the GQDs. b) The height distribution of the GQDs as shown in AFM image a.

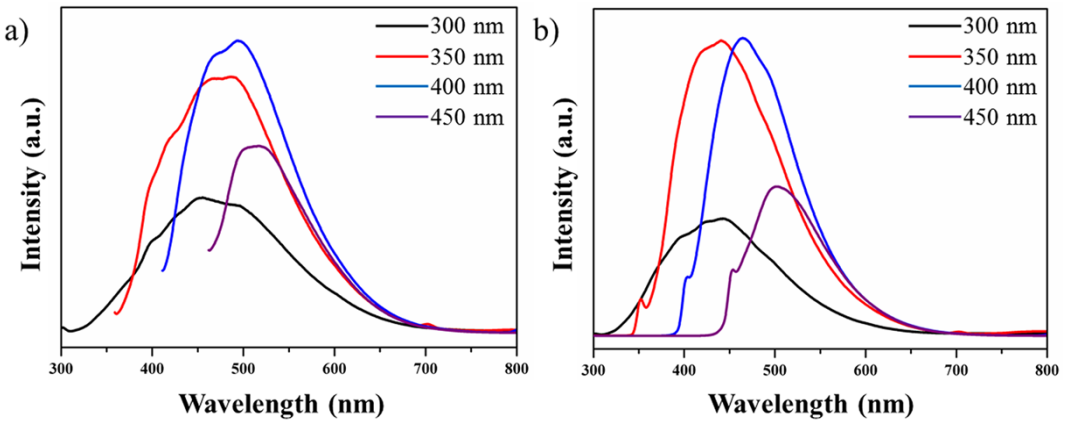

Figure S2. Photoluminescence (PL) spectrum of GQDs with progressively longer excitation wavelength from 300 nm to 450 nm in 50 nm increments for a) A-GQDs and b) O-GQDs.

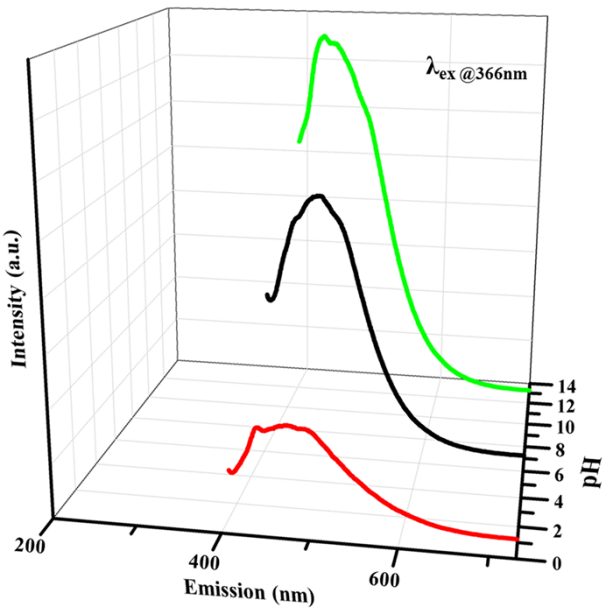

Figure S3. PL spectra of O-GQDs (366 nm excitation) at different pH.

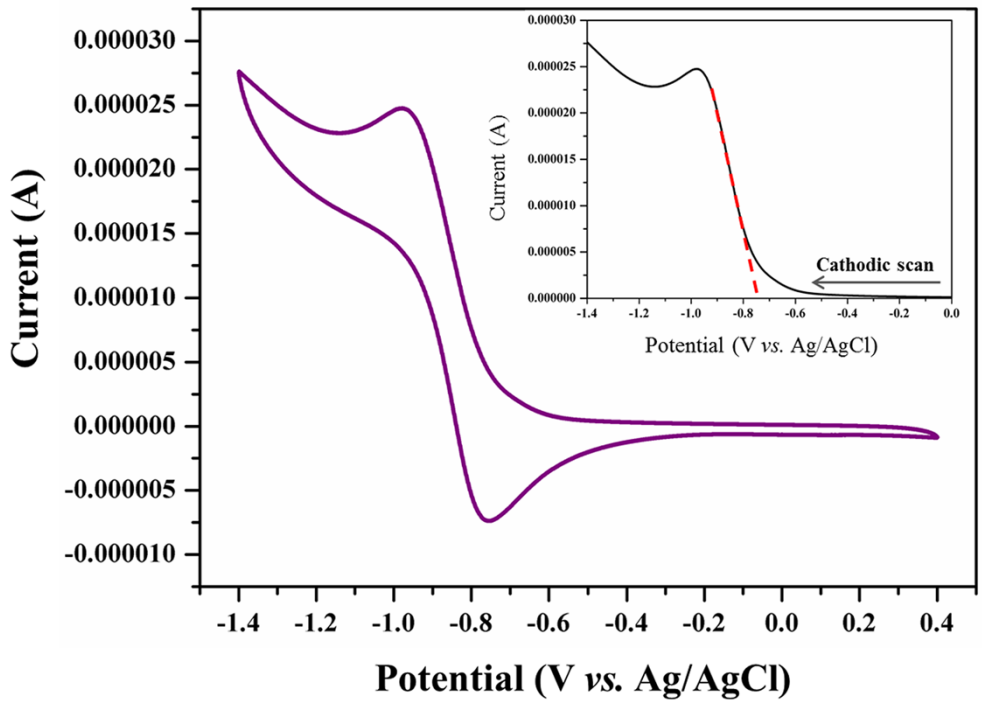

Figure S4. CV curve of O-GQDs thin film on glassy carbon electrodes. (Inset: Cathodic scan for determining the onset reduction potentials).

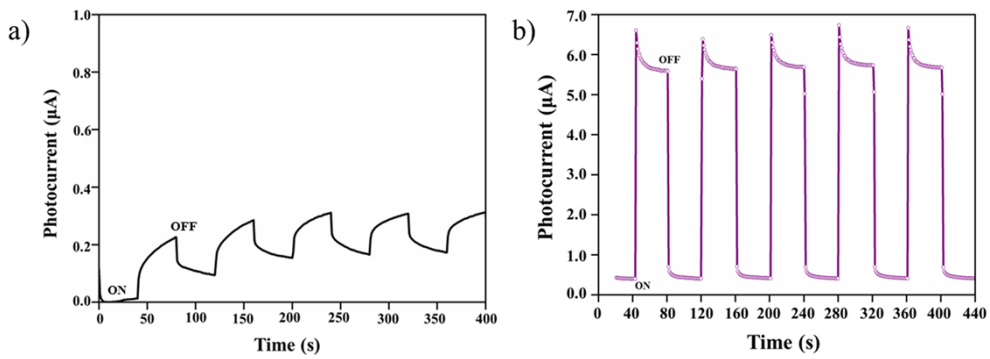

Figure S5. Transient photocurrent responses of a) Pure P3HT device and b) PCBM/P3HT device (1:1 in weight) at a light intensity of 230 mW/cm^2 and a bias voltage of 0.2 V.