

Electronic Supplementary Information

**Tunable 3D hierarchical graphene/BiOI nanoarchitectures:
in situ preparation and highly improved photocatalytic
performance and photoelectrochemical properties under
visible light irradiation**

Hongwei Huang,* Kun Liu, Yinglei Zhang, Kai Chen, Yihe Zhang,* Na Tian

Beijing Key Laboratory of Minerals Materials and Utilization of Solid Waste, School of Materials

Science and Technology, China University of Geosciences, Beijing 100083, China.

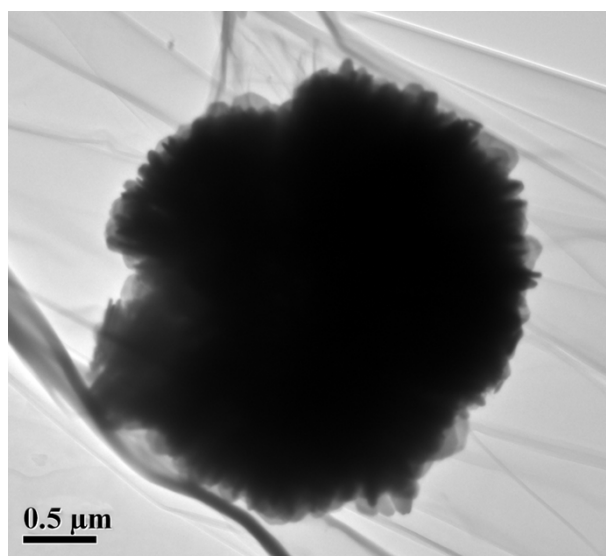


Fig. S1 The TEM image of 5% graphene oxide/BiOI nanocomposite before hydrothermal treatment.

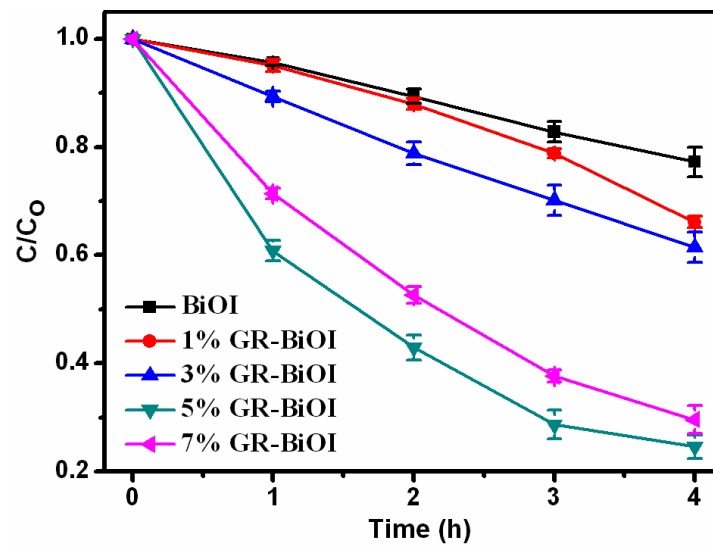


Fig. S2 Photocatalytic degradation curves of RhB with error bars over pure BiOI, 1%, 3%, 5% and 7% GR-BiOI composites under the irradiation of visible light ($\lambda > 420$ nm).