Supplementary Information

Facile fabrication of 3D flower-like heterostructured g-C_3N_4/SnS_2 composite with efficient photocatalytic activity under visible light

Meng Sun,[a] Qing Yan,[a] Tao Yan,[b,c] Mengmeng Li, [b] Dong Wei,[a] Zhongpeng Wang,[a] Qin Wei,[d] and Bin Du*[a]

[a]*School of Resources and Environment, University of Jinan, Shandong Provincial Engineering Technology Research Center for Ecological Carbon Sink and Capture Utilization, Jinan250022, P.R. China. Fax: +86 531-82765969; Tel:+86 531-82769235;E-mail:binduujn@163.com*
[b]*School of Civil Engineering and Architecture, University of Jinan, Jinan250022, P.R. China.*
[c]*School of Chemistry, Beijing Institute of Technology, Beijing 100081, P.R. China*
[d]*Key Laboratory of Chemical Sensing & Analysis in Universities of Shandong, School of Chemistry and Chemical Engineering, University of Jinan, Jinan 250022, P.R. China*

Corresponding Author: prof. Bin Du; Email: bindujn@163.com;
Tel. :+86 531-82769235; Fax: +86 531-82765969

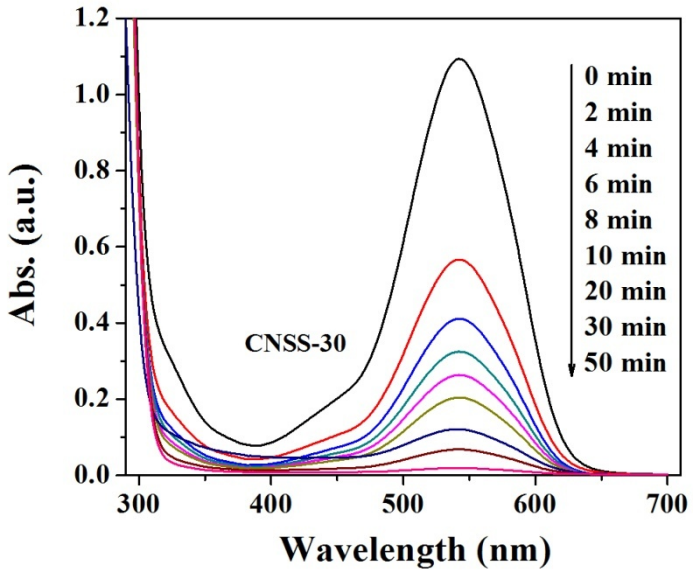

Figure S1. The typical temporal evolution of the spectral changes of DPC-Cr(VI) complex solutions at various exposure time in the presence of CNSS-30 composite.

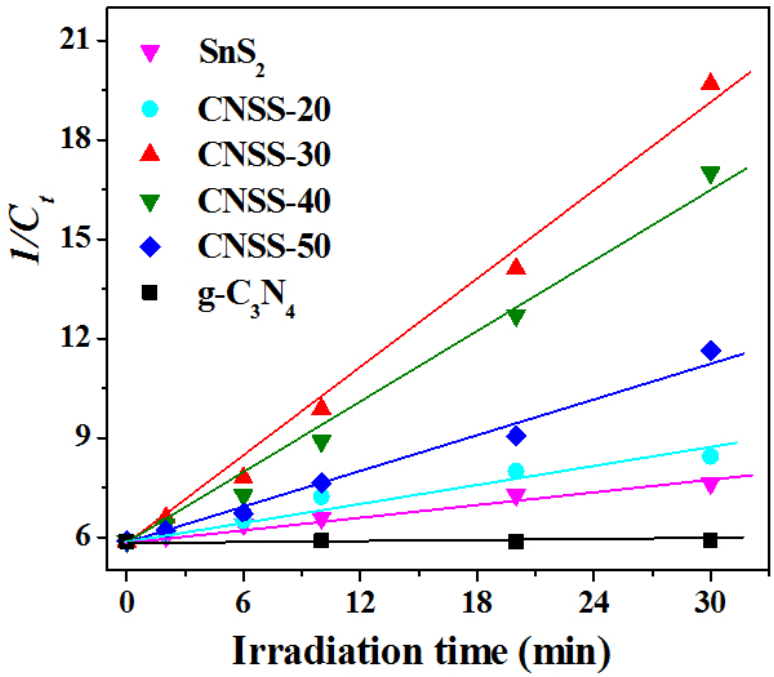

Figure S2. The kinetics of Cr(VI) photocatalytic reduction over g-C_3N_4, SnS_2, and g-C_3N_4/SnS_2 composites under visible light irradiation.