

Surface oxygen vacancy induced solar light activity enhancement of CdWO₄/Bi₂O₂CO₃ core-shell heterostructure photocatalyst

Chunming Yang^{a,b}, Guimei Gao^{b, **}, Junjun Zhang^c, Ruiping Liu^b, Ruicheng Fan^b,
Ming Zhao^b, Yongwang Wang^b, Shucui Gan^{a,*}

^a College of Chemistry, Jilin University, Changchun 130026, P. R. China

^b Shen hua zhun neng resources comprehensive development company limited,
Zhungeer 010300, P. R. China

^c School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University,
Shanghai 200240, P. R. China

*Corresponding author. Tel.: +86 431 88502259; fax: +86 431 88502259.

**Corresponding author. Tel.: +86 477 3971898; fax: +86 477 3971898.

E-mail address: gansc@jlu.edu.cn (S. Gan), gaoguimei_gao@163.com (G. Gao).

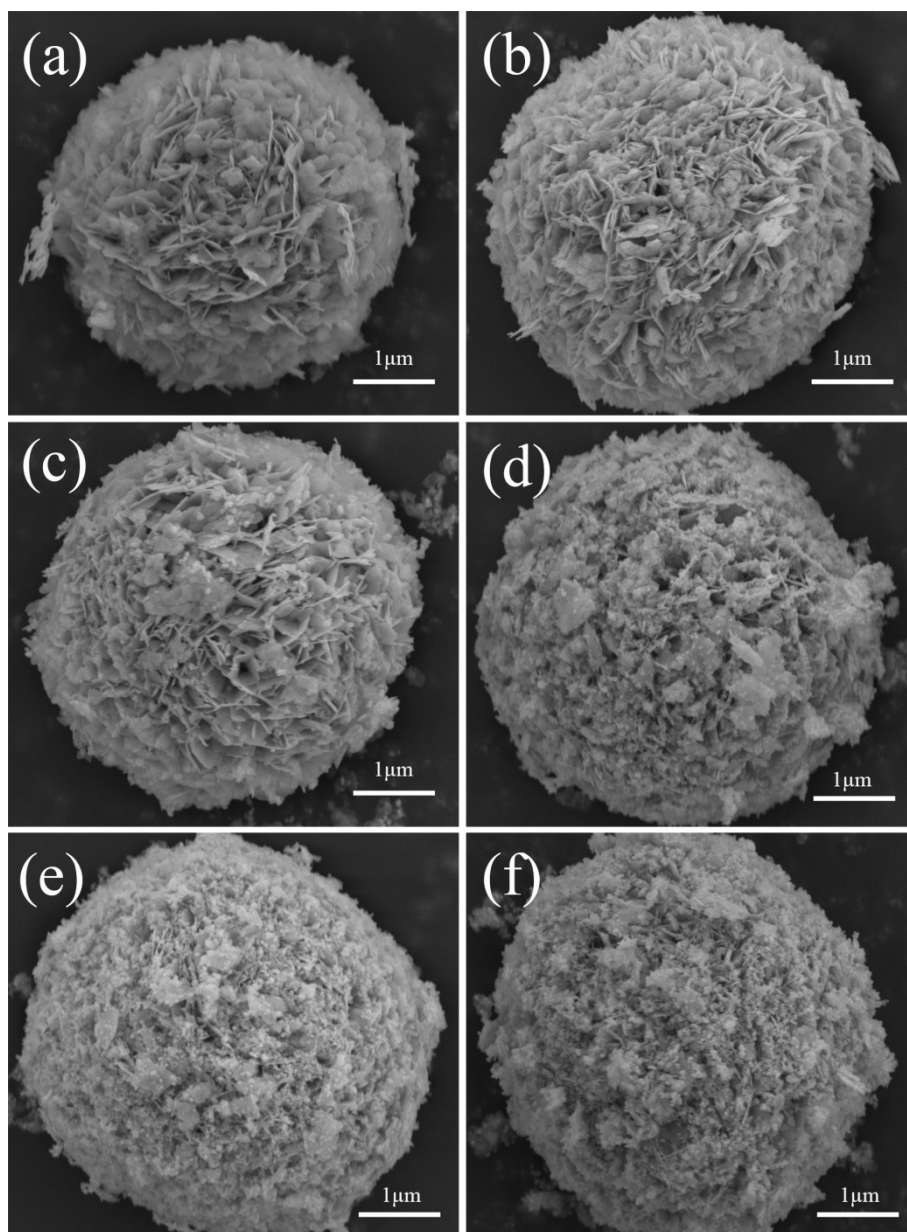


Fig. S1. SEM images for (a) pure $\text{Bi}_2\text{O}_2\text{CO}_3$, (b) 3 wt% $\text{CdWO}_4/\text{Bi}_2\text{O}_2\text{CO}_3$, (c) 6 wt% $\text{CdWO}_4/\text{Bi}_2\text{O}_2\text{CO}_3$, (d) C/B-1(9 wt% $\text{CdWO}_4/\text{Bi}_2\text{O}_2\text{CO}_3$), (e) C/B-2 (12 wt% $\text{CdWO}_4/\text{Bi}_2\text{O}_2\text{CO}_3$), and (f) C/B-3(15 wt% $\text{CdWO}_4/\text{Bi}_2\text{O}_2\text{CO}_3$).

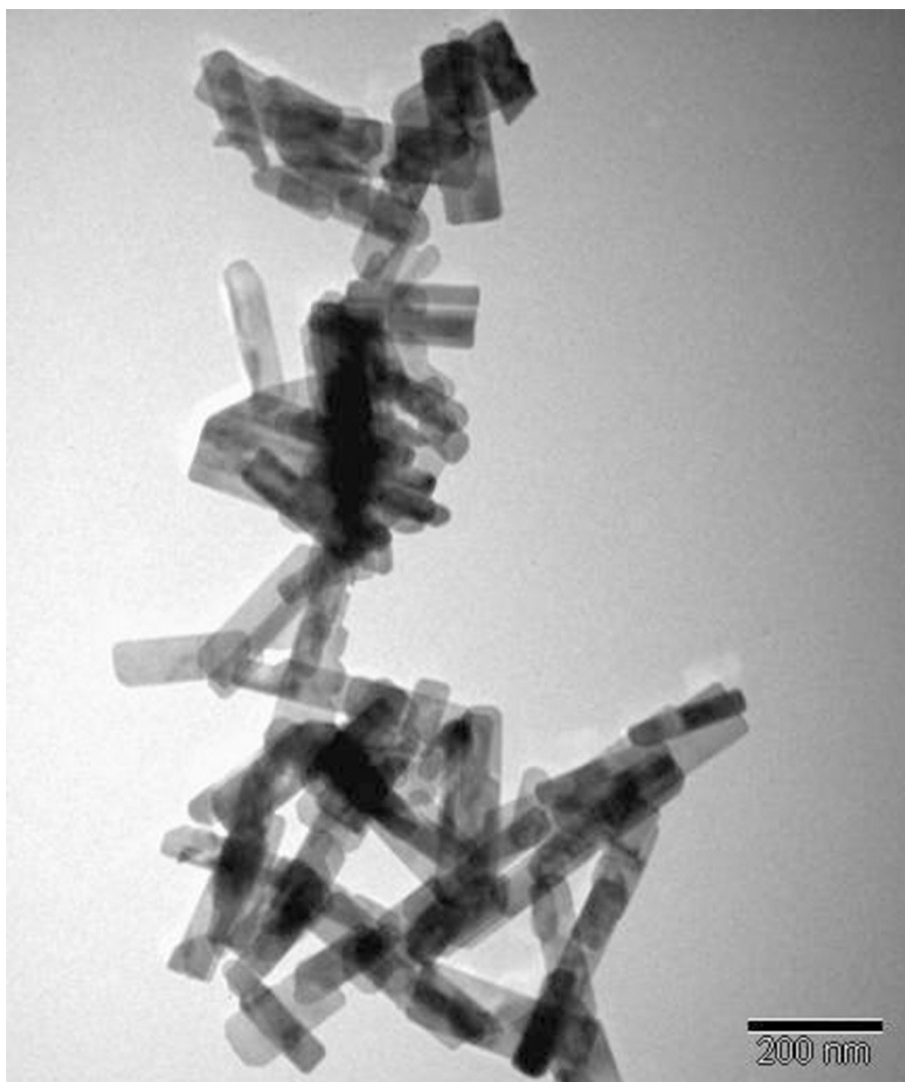


Fig. S2. TEM image of the pure CdWO₄.