

Supporting Information

Synthesis of $\text{Bi}_2\text{MoO}_6/\text{Bi}_4\text{V}_2\text{O}_{11}$ heterojunction photocatalyst with enhanced visible-light-driven photocatalytic activity

Chol-Nam Ri*, Song-Gol Kim, Kyong-Sik Ju, Hyok-Su Ryo, Chol-Ho Mun, U-Hyon Kim

Institute for electronic materials, Kim Il Sung University, Pyongyang, 999093,
Democratic People's Republic of Korea

*Corresponding Author: rcn906@yahoo.com

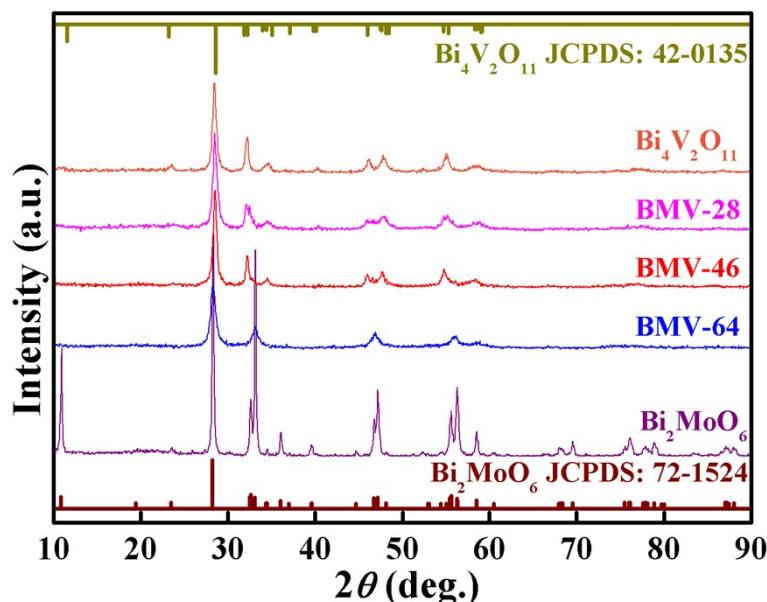


Fig. S1. XRD patterns of pristine Bi_2MoO_6 , $\text{Bi}_4\text{V}_2\text{O}_{11}$ and BMV-28, BMV-46, BMV-64 composite samples.

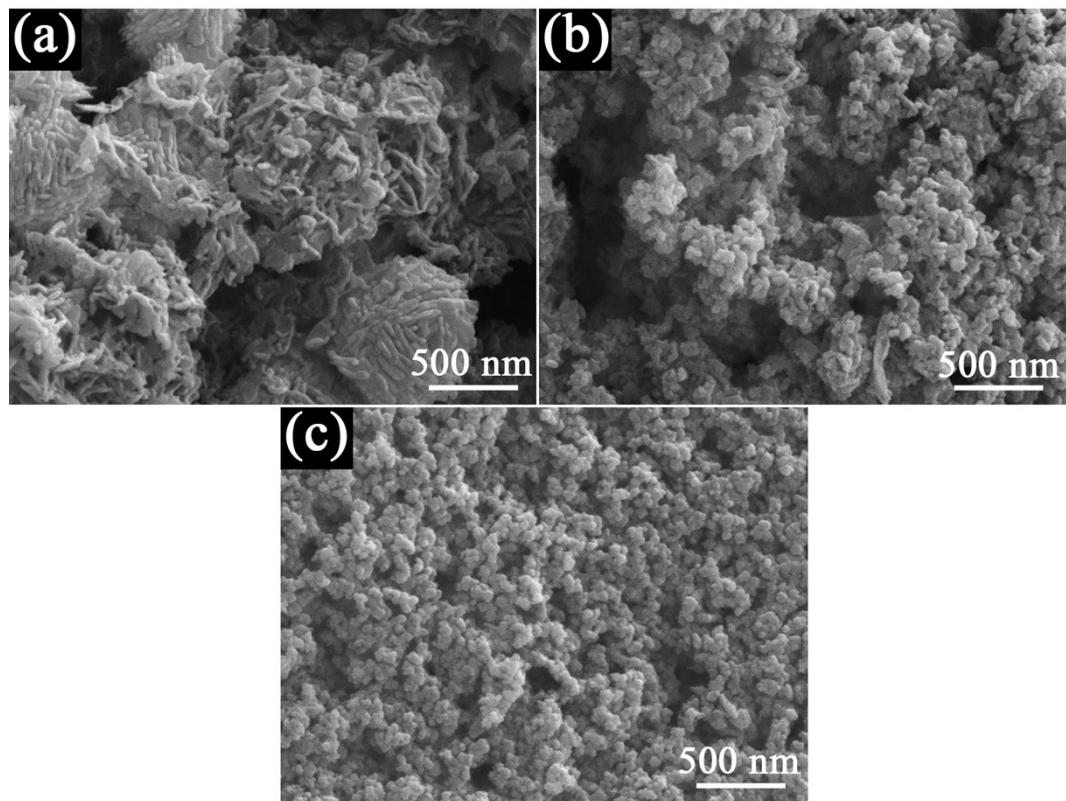


Fig. S2. SEM images of (a) BMV-28, (b) BMV-46 and BMV-64 composite samples.

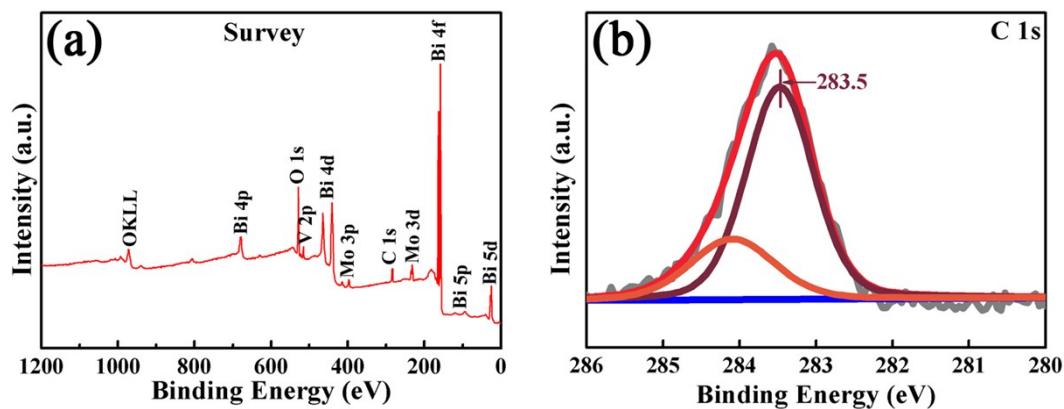


Fig. S3. (a) Full survey spectra and (b) C 1s spectra of BMV-55 composite.

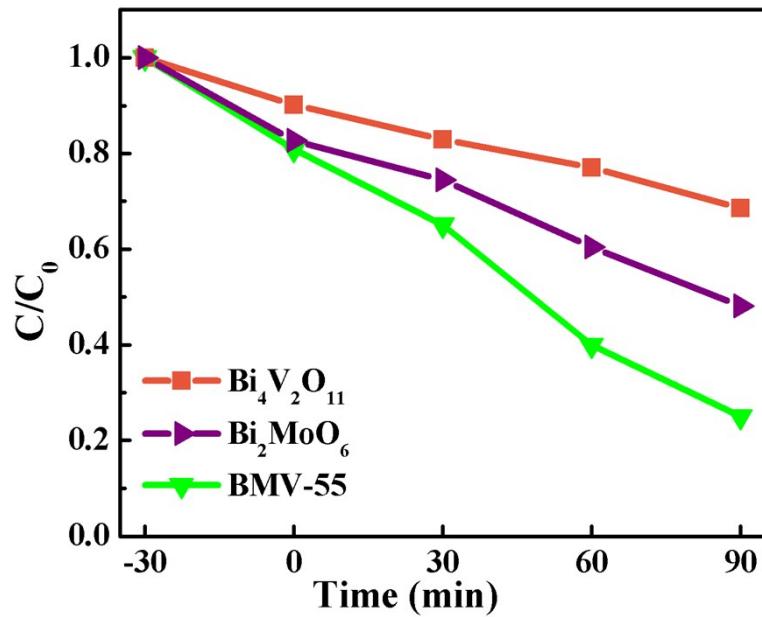
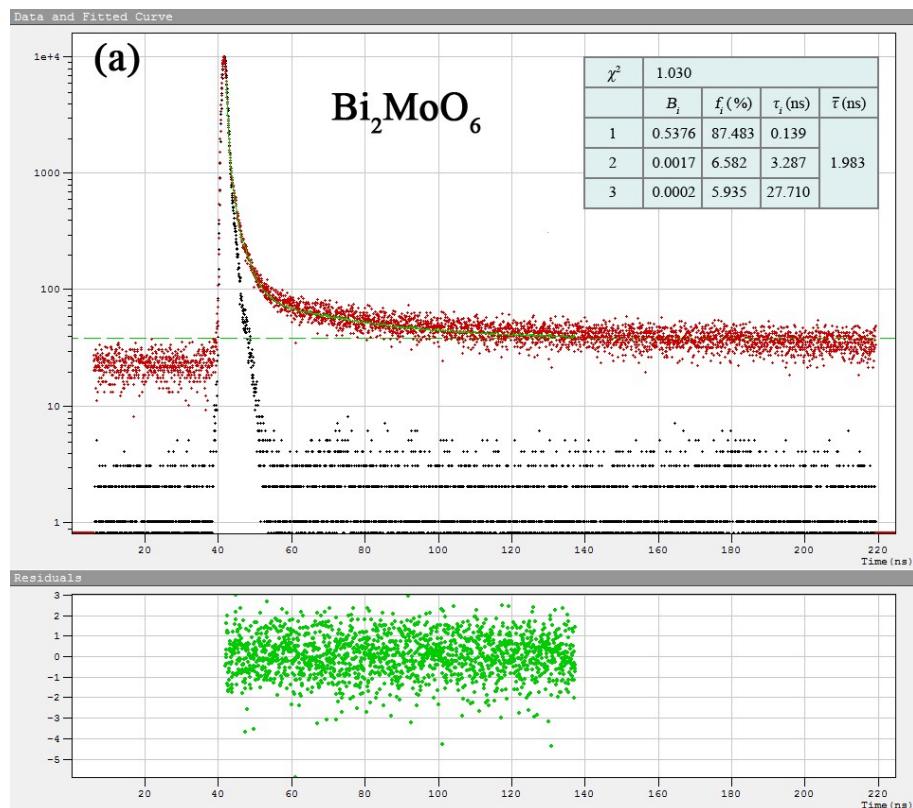


Fig. S4. Photocatalytic degradation plots of MB in the absence of H_2O_2 over pristine Bi_2MoO_6 , $\text{Bi}_4\text{V}_2\text{O}_{11}$, BMV-55 composite samples.



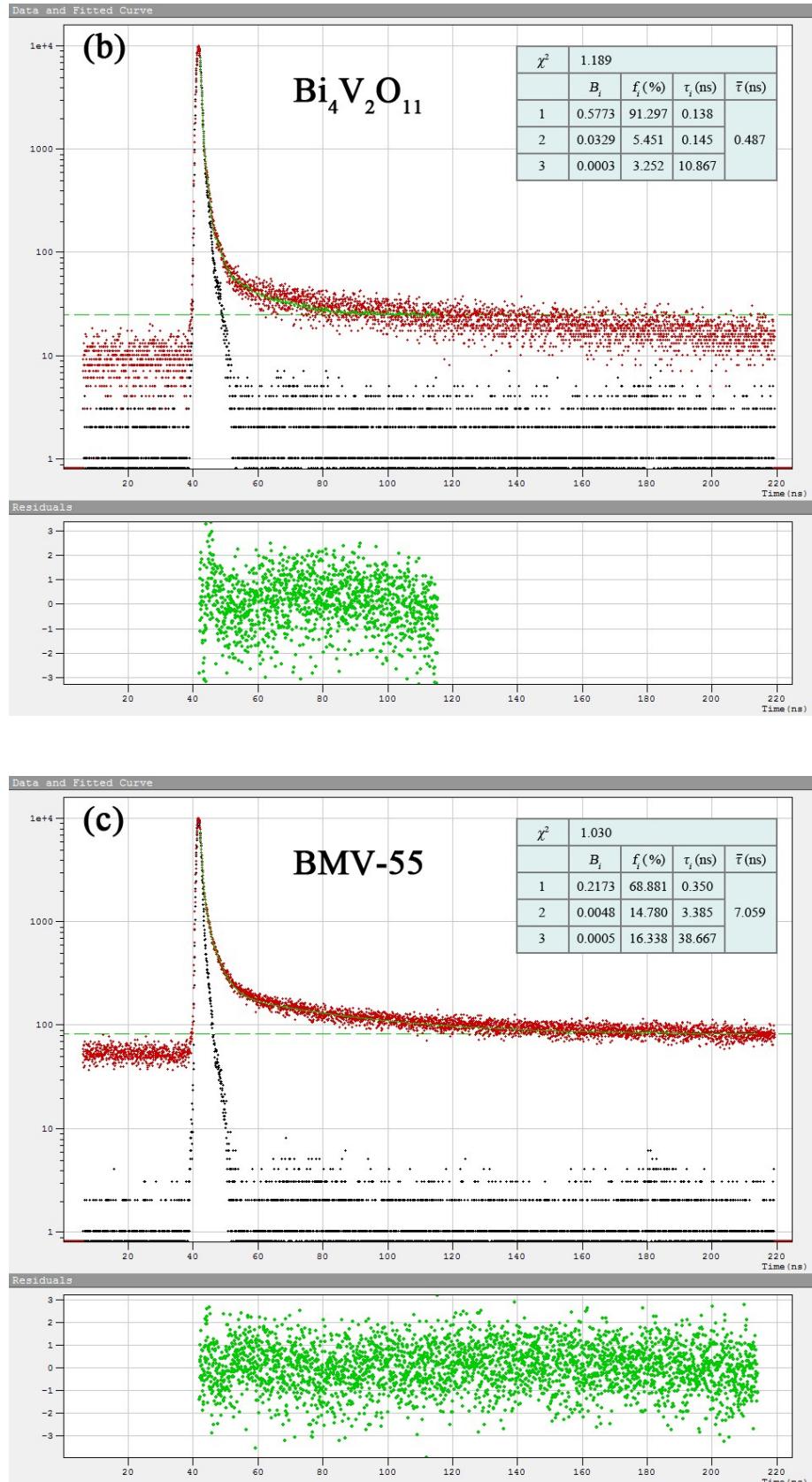


Fig. S5. Fitting curves using 3-exponential model and resulting of kinetic parameters; (a) as-fabricated pristine Bi_2MoO_6 , (b) $\text{Bi}_4\text{V}_2\text{O}_{11}$ and (c) BMV-55 composite samples.