

Supporting Information

One-step synthesis of mesoporous Pt-Nb₂O₅ nanocomposites with Enhanced Photocatalytic Hydrogen Production

Research Institute of Photocatalysis, State Key Laboratory of Photocatalysis on
Energy and Environment, Fuzhou University, Fuzhou, 350002, P. R. China.

*Corresponding author,
Fax: +86-591-8377-9251,
Tel: +86 59183779251,
Email: lhx@fzu.edu.cn; xwang@fzu.edu.cn

Captions for Figures

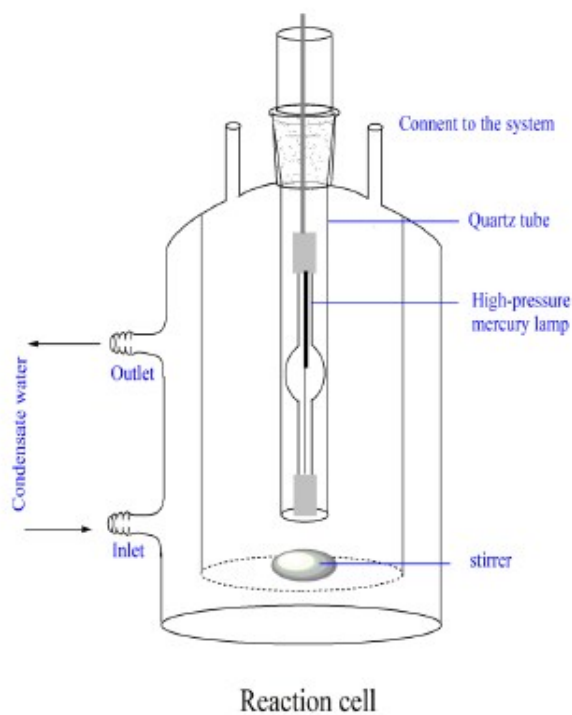


Fig. S1 Schematic diagram of the reactor for UV induced methanol reforming for hydrogen.

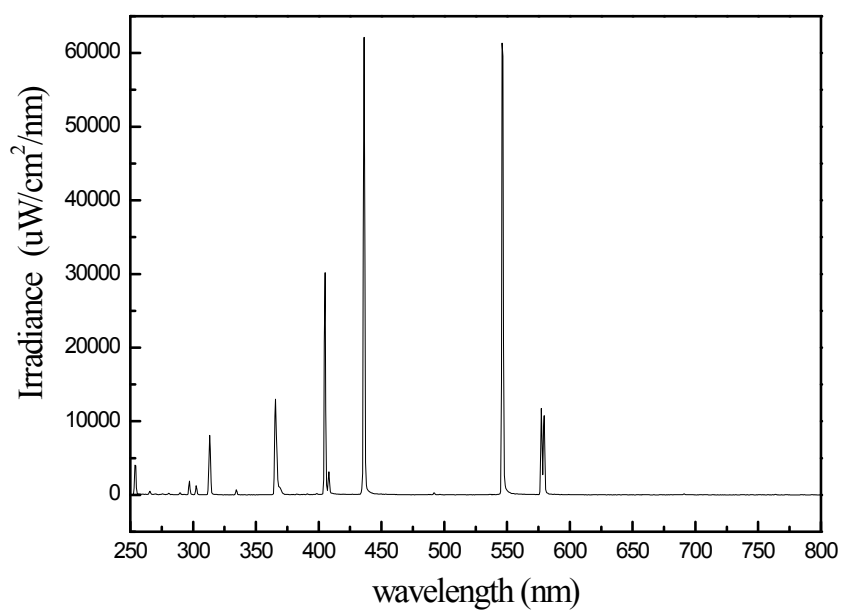


Fig. S2 Light spectrum of the high-voltage mercury lamp with 165W.

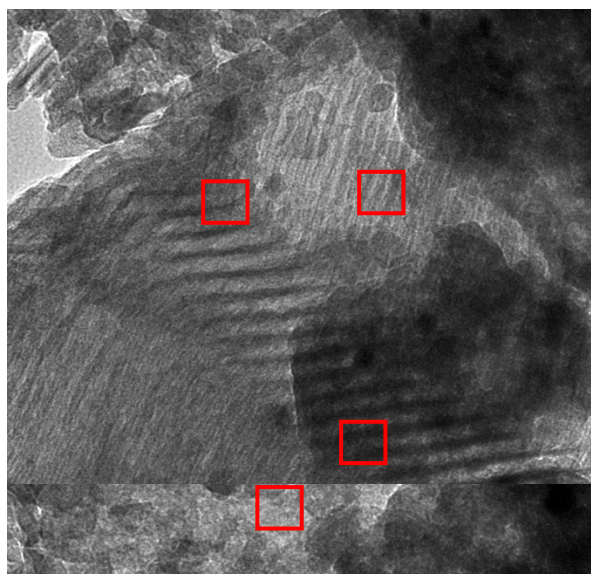


Fig. S3 TEM images of 0.8-Pt-I-M- Nb₂O₅.

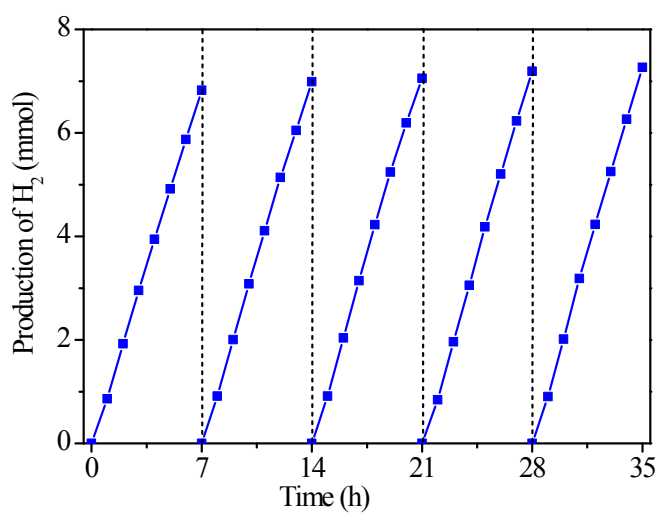


Fig. S4 Recycle study of the photocatalyst 0.8-Pt-D-M- Nb₂O₅.

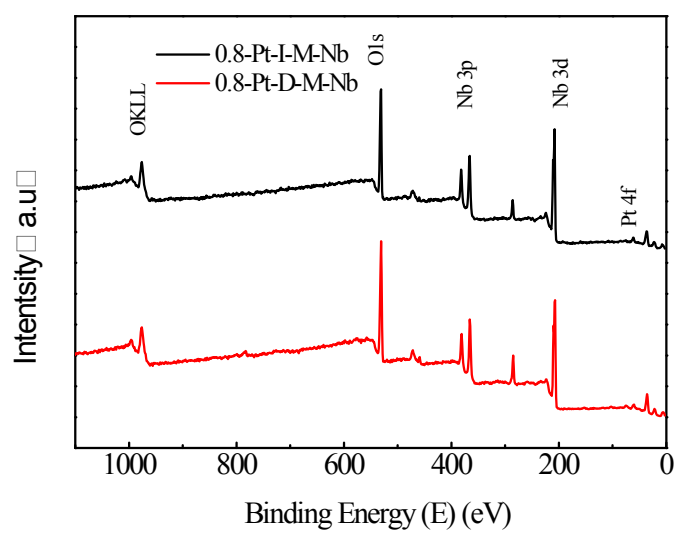


Fig. S5 X-ray photoelectron spectra (XPS) of survey spectrum of 0.8-Pt-D-M-Nb and 0.8-Pt-I-M-Nb.