Supporting Information

Embedded 1D WO₃ Nanotubes into 2D Ultrathin Porous g-C₃N₄ to Improve the Stability and Efficiency of Photocatalytic Hydrogen Production

Fang Feng^a, Hongfeng Hua^a, Lutao Li^a, Rongxi Xu^b, Jiayu Tang^b, Dejiang Dong^b, Jian Zhang^{a,b,*}, Xing'ao Li^{a,b,*}

^a Key Laboratory for Organic Electronics and Information Displays & Institute of Advanced Materials (IAM), Nanjing University of Posts & Telecommunications, Nanjing 210023, P. R. China.
^b New Energy Technology Engineering Lab of Jiangsu Province, School of Science, Nanjing University of Posts & Telecommunications, Nanjing 210023, P. R. China.

* Corresponding authors.

E-mail addresses: iamjzhang@njupt.edu.cn (J. Zhang), lxahbmy@126.com (X. Li).

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Figure S1. Zeta potential of the PCNS and WNT before and after HCl treatment.



Figure S2. SEM image of the WO₃ nanotubes before (a) and after (b) HCl treatment.



Figure S3. X-ray diffraction patterns of P doped C_3N_4 nanosheets and C_3N_4 nanosheets.



Figure S4. SEM images of PCNS (a) and PCNW-10 to PCNW-90 (b-f).



Figure S5. XPS survey spectra (a) and high-resolution P 2p XPS spectra(b).



Figure S6. XPS spectra of PCNW-50 before (1) and after (2) photocatalytic experiment.

Sample	$\tau_1(ns)$	A ₁	$\tau_2(ns)$	A ₂	T _{av} (ns)
PCNS	34.56	0.63	4.04	0.28	25.09
PCNW-50	52.64	0.56	5.91	0.32	35.40
WNT	3.32	0.74	0.68	0.36	2.44

Table S1. Parameters of time-resolved fluorescence decay curves.