

Alkali metal-modified crystalline carbon nitride for photocatalytic Nitrogen Fixation

Yang Li,^{abc*} Baibing Wang,^b Quan-Jun Xiang,^c Qin Zhang,^b and Gui Chen^{a*}

^a School of Environment and Civil Engineering, Dongguan University of Technology,
Dongguan, Guangdong, P. R. China

^b Key Laboratory of Poyang Lake Basin Agricultural Resource and Ecology of
Jiangxi Province, College of Land Resource and Environment, Jiangxi Agricultural
University, Nanchang 330045, China

^c State Key Laboratory of Electronic Thin Film and Integrated Devices,
University of Electronic Science and Technology of China,
Chengdu 610054, P. R. China;

*Correspondence author's e-mail: liyang4672@163.com; chengui@dgut.edu.cn;

Table

Table S1 Specific surface areas of LK-HTCN, KN-HCN, LKN-HTCN and LN-HTCN

Samples	Specific surface areas (m ² /g)
LK-HTCN	47.45
KN-HCN	16.14
LKN-HTCN	58.24
LN-HTCN	53.07

Figures

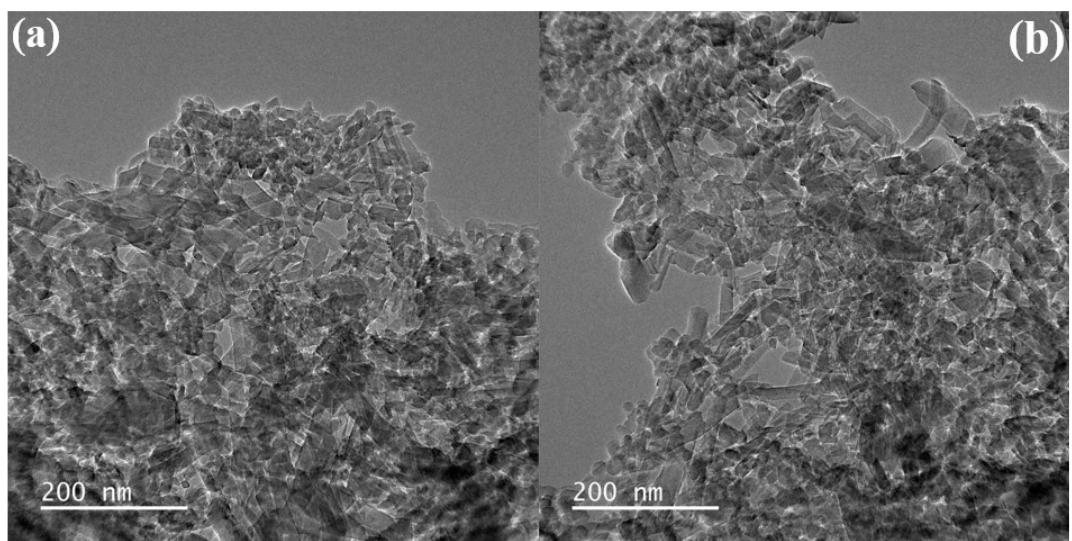


Fig. S1 TEM images of the LK-HTCN.

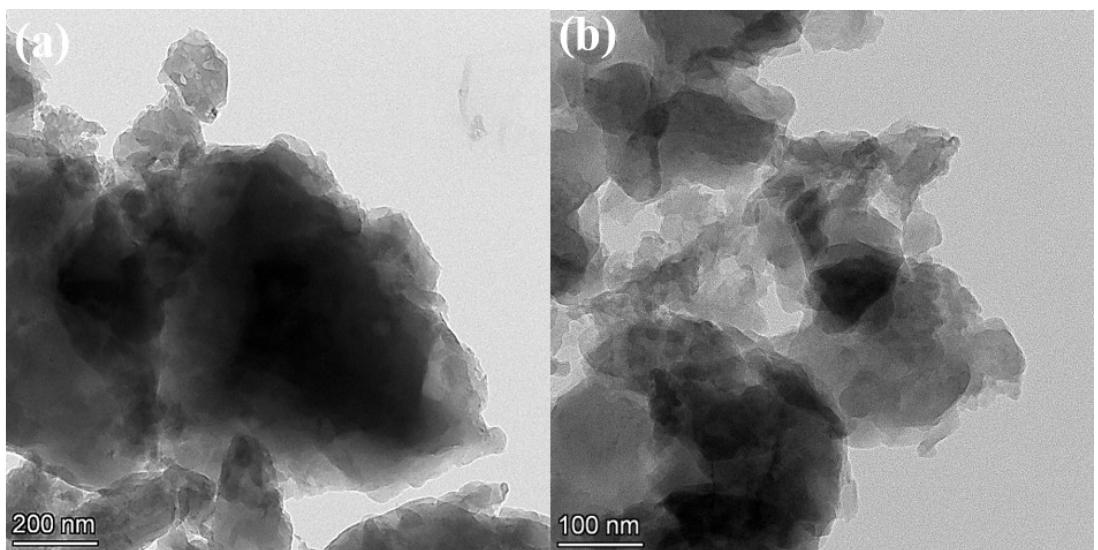


Fig. S2 TEM images of the KN-HCN.

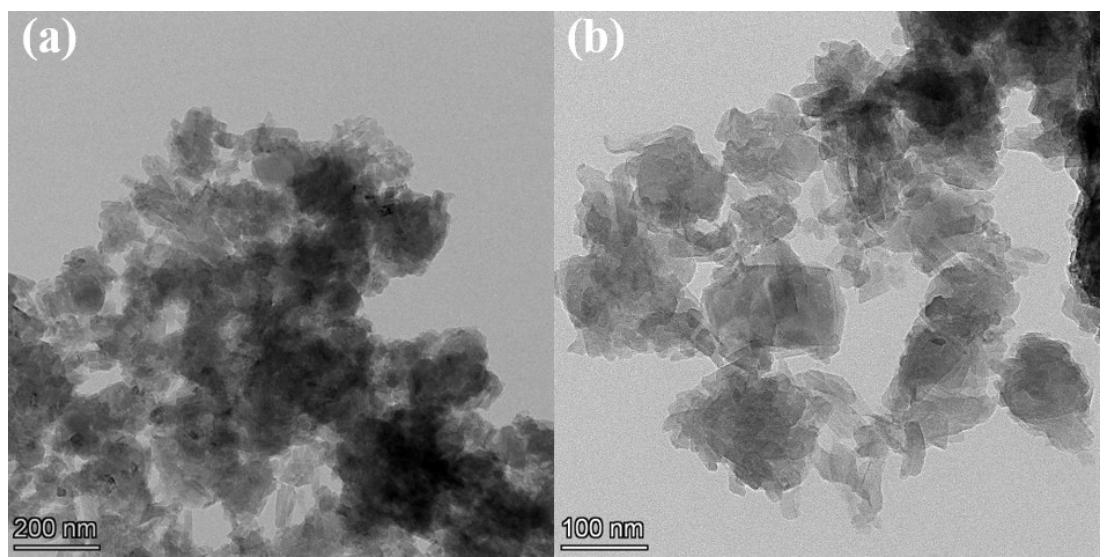


Fig. S3 TEM images of the LKN-HTCN.

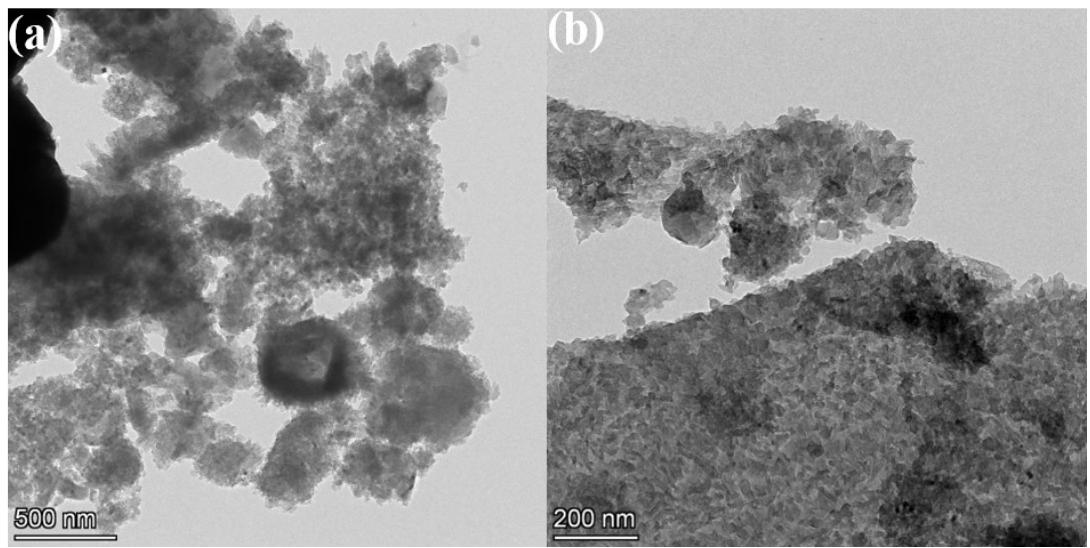


Fig. S4 TEM images of the LN-HTCN.

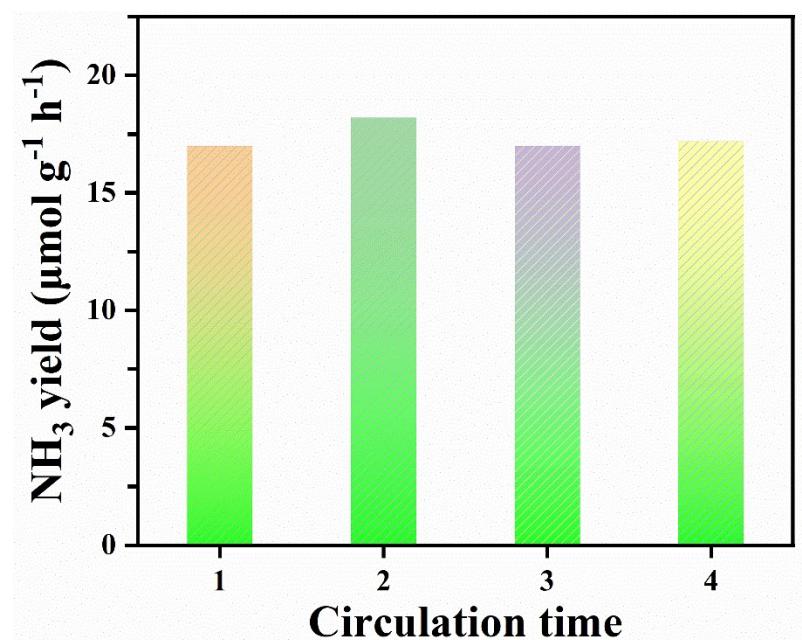


Fig. S5 The cycling photocatalytic nitrogen fixation experiments over the KN-HCN photocatalyst.