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Authors: Pengfei Wang, Qixing Zhou, Yuguo Xia, Sihui Zhan, Yi Li



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**Understanding the charge separation and transfer in mesoporous carbonate-doped phase-junction TiO<sub>2</sub> nanotubes for photocatalytic hydrogen production**

Pengfei Wang<sup>1</sup>, Qixing Zhou<sup>1</sup>, Yuguo Xia<sup>2</sup>, Sihui Zhan<sup>1\*</sup> and Yi Li<sup>3</sup>

<sup>1</sup>MOE Key Laboratory of Pollution Processes and Environmental Criteria/ Tianjin Key Laboratory of Environmental Remediation and Pollution Control, College of Environmental Science and Engineering, Nankai University, Tianjin 300350, China.

<sup>2</sup>School of Chemistry & Chemical Engineering, National Engineering Research Center for Colloidal Materials, Shandong University, Jinan 250100, P. R. China.

<sup>3</sup>Department of Chemistry, Tianjin University, Tianjin 300072, P. R. China.

\*Corresponding authors. E-mail: sihuizhan@nankai.edu.cn.

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