

## Accepted Manuscript

Title: Carbon nitride doped TiO<sub>2</sub> photoelectrodes for photocatalysts and quantum dot sensitized solar cells

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PII: S0025-5408(16)31018-2  
DOI: <http://dx.doi.org/doi:10.1016/j.materresbull.2016.09.023>  
Reference: MRB 8955

To appear in: *MRB*

Received date: 9-6-2016  
Revised date: 16-9-2016  
Accepted date: 19-9-2016

Please cite this article as: Jiao Men, Qiqian Gao, Shihan Sun, Xueyu Zhang, Lianfeng Duan, Wei Lü, Carbon nitride doped TiO<sub>2</sub> photoelectrodes for photocatalysts and quantum dot sensitized solar cells, Materials Research Bulletin <http://dx.doi.org/10.1016/j.materresbull.2016.09.023>

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**Carbon nitride doped TiO<sub>2</sub> photoelectrodes for photocatalysts and quantum dot sensitized solar cells**

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