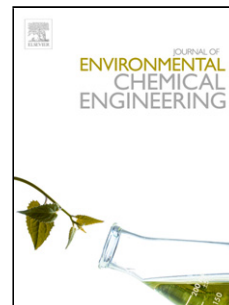


Accepted Manuscript

Title: *In-situ* one-pot hydrothermal synthesis of carbon-TiO₂ nanocomposites and their photocatalytic applications

Authors: Hui-Ping Qi, Yan-Zhen Liu, Le Chang, Hui-Long Wang



PII: S2213-3437(17)30605-X
DOI: <https://doi.org/10.1016/j.jece.2017.11.047>
Reference: JECE 2014

To appear in:

Received date: 3-9-2017
Revised date: 11-11-2017
Accepted date: 16-11-2017

Please cite this article as: Hui-Ping Qi, Yan-Zhen Liu, Le Chang, Hui-Long Wang, *In-situ* one-pot hydrothermal synthesis of carbon-TiO₂ nanocomposites and their photocatalytic applications, Journal of Environmental Chemical Engineering <https://doi.org/10.1016/j.jece.2017.11.047>

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***In-situ* one-pot hydrothermal synthesis of carbon-TiO₂ nanocomposites and their photocatalytic applications**

Hui-Ping Qi[†], Yan-Zhen Liu[†], Le Chang, Hui-Long Wang*

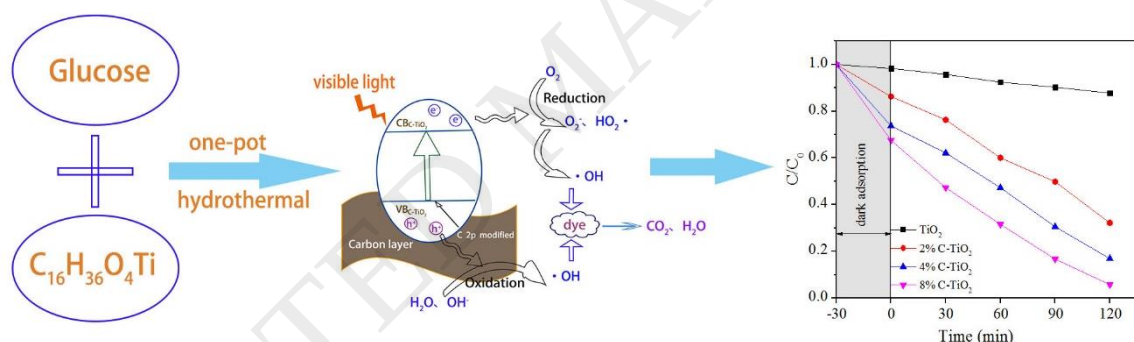
Department of Chemistry, Dalian University of Technology, Dalian 116023, China

[†] These authors contributed equally to this work.

* Corresponding author; Tel.: +86-411-84706303; fax: +86-411-84708590.

E-mail address: hlwang@dlut.edu.cn (H.-L. Wang)

Graphical Abstract



Research Highlights

- C-TiO₂ was facilely prepared by *in-situ* one-pot hydrothermal synthesis method.
- Glucose was employed as the carbon source.
- C-TiO₂ exhibited visible light activity towards RhB and MB degradation.
- The composite photocatalyst has excellent reproducibility.

ABSTRACT

A simple and convenient *in-situ* one-pot hydrothermal synthesis method was developed for preparing crystalline carbon modified titanium dioxide composite (C-

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