

Accepted Manuscript

Role of Dissolved Oxygen on the Degradation Mechanism of Reactive Green 19 and Electricity Generation in Photocatalytic Fuel Cell

Sin-Li Lee, Li-Ngee Ho, Soon-An Ong, Yee-Shian Wong, Chun-Hong Voon, Wan Fadhilah Khalik, Nik Athirah Yusoff, Noradiba Nordin



PII: S0045-6535(17)31943-4

DOI: 10.1016/j.chemosphere.2017.11.166

Reference: CHEM 20363

To appear in: *Chemosphere*

Received Date: 06 September 2017

Revised Date: 27 October 2017

Accepted Date: 28 November 2017

Please cite this article as: Sin-Li Lee, Li-Ngee Ho, Soon-An Ong, Yee-Shian Wong, Chun-Hong Voon, Wan Fadhilah Khalik, Nik Athirah Yusoff, Noradiba Nordin, Role of Dissolved Oxygen on the Degradation Mechanism of Reactive Green 19 and Electricity Generation in Photocatalytic Fuel Cell, *Chemosphere* (2017), doi: 10.1016/j.chemosphere.2017.11.166

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights:

- A photocatalytic fuel cell based on ZnO/C photoanode was developed.
- The performance of photocatalytic fuel cell was influenced by the dissolved oxygen.
- Reactive Green 19 could only be mineralized in aerated photocatalytic fuel cell.
- The air purged photocatalytic fuel cell could produce the highest power density.

Download English Version:

<https://daneshyari.com/en/article/8852501>

Download Persian Version:

<https://daneshyari.com/article/8852501>

[Daneshyari.com](https://daneshyari.com)