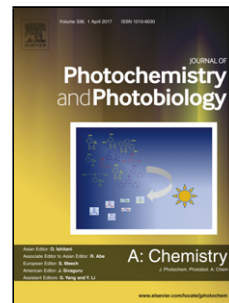


Accepted Manuscript

Title: Electron scavenger-assisted photocatalytic degradation of amido black 10B dye with Mn_3O_4 nanotubes: A response surface methodology study with central composite design

Author: Kadarkarai Govindan Hrisheekesh T. Chandran
Mohan Raja Subramanian Uma Maheswari Murali Rangarajan



PII: S1010-6030(16)31033-4
DOI: <http://dx.doi.org/doi:10.1016/j.jphotochem.2017.03.025>
Reference: JPC 10576

To appear in: *Journal of Photochemistry and Photobiology A: Chemistry*

Received date: 16-11-2016
Revised date: 13-3-2017
Accepted date: 16-3-2017

Please cite this article as: K. Govindan, H.T. Chandran, M. Raja, S.U. Maheswari, M. Rangarajan, Electron scavenger-assisted photocatalytic degradation of amido black 10B dye with Mn_3O_4 nanotubes: A response surface methodology study with central composite design, *Journal of Photochemistry and Photobiology A: Chemistry* (2017), <http://dx.doi.org/10.1016/j.jphotochem.2017.03.025>

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.

1 **Electron scavenger-assisted photocatalytic degradation of amido black 10B**
2 **dye with Mn₃O₄ nanotubes: A response surface methodology study with**
3 **central composite design**

4 **Kadarkarai Govindan^{a,b†}, Hrisheekesh T. Chandran^c, Mohan Raja^{d,e}, Subramanian Uma**
5 **Maheswari^f, Murali Rangarajan^{a,b†}**

6 ^aCenter of Excellence in Advanced Materials and Green Technologies, Amrita School of
7 Engineering Coimbatore, Amrita Vishwa Vidyapeetham, Amrita University, Coimbatore, Tamil
8 Nadu 641 112, India

9 ^bDepartment of Chemical Engineering and Material Science, Amrita School of Engineering
10 Coimbatore, Amrita Vishwa Vidyapeetham, Amrita University, Coimbatore, Tamil Nadu 641
11 112, India

12 ^cCenter of Super-Diamond and Advanced Films (COSDAF), Department of Physics and
13 Materials Science, City University of Hong Kong, Hong Kong SAR, P. R. China.

14 ^dDepartment of Biotechnology, Karunya University, Coimbatore - 641 114, Tamil Nadu, India.

15 ^eCentre for Research in Materials Science and Thermal Management, School of Mechanical
16 Sciences, Karunya University, Coimbatore - 641 114, Tamil Nadu, India.

17 ^fDepartment of Physics, Mother Teresa Women's University, Kodaikanal, Tamil Nadu 624
18 101, India

19 [†]**Corresponding author:** E-mail address: govindanmu@gmail.com (Kadarkarai Govindan),
20 r_murali@cb.amrita.edu (Murali Rangarajan), Tel. No: - +91-97517 03442, +91-90476 98392

21 ^a*Center of Excellence in Advanced Materials and Green Technologies, Amrita School of*
22 *Engineering Coimbatore, Amrita Vishwa Vidyapeetham, Amrita University, Coimbatore, Tamil*
23 *Nadu 641 112, India.*

24 ^b*Department of Chemical Engineering and Material Science, Amrita School of Engineering*
25 *Coimbatore, Amrita Vishwa Vidyapeetham, Amrita University, Coimbatore, Tamil Nadu 641*
26 *112, India.*

Download English Version:

<https://daneshyari.com/en/article/4753956>

Download Persian Version:

<https://daneshyari.com/article/4753956>

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