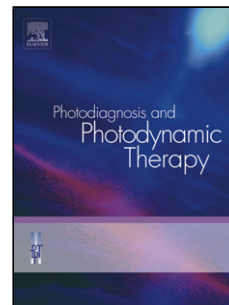


Accepted Manuscript

Title: Improved singlet oxygen generation and antimicrobial activity of sulphur-doped graphene quantum dots coupled with methylene blue for photodynamic therapy applications

Authors: Khomidkhodza Kholikov, Saidjafarzoda Ilhom, Muhammed Sajjad, Michael E. Smith, Jerry D. Monroe, Omer San, Ali Oguz Er



PII: S1572-1000(18)30093-0
DOI: <https://doi.org/10.1016/j.pdpdt.2018.08.011>
Reference: PDPDT 1231

To appear in: *Photodiagnosis and Photodynamic Therapy*

Received date: 20-3-2018
Revised date: 18-7-2018
Accepted date: 20-8-2018

Please cite this article as: Kholikov K, Ilhom S, Sajjad M, Smith ME, Monroe JD, San O, Er AO, Improved singlet oxygen generation and antimicrobial activity of sulphur-doped graphene quantum dots coupled with methylene blue for photodynamic therapy applications, *Photodiagnosis and Photodynamic Therapy* (2018), <https://doi.org/10.1016/j.pdpdt.2018.08.011>

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.

Improved singlet oxygen generation and antimicrobial activity of sulphur-doped graphene quantum dots coupled with methylene blue for photodynamic therapy applications

Khomidkhodza Kholikov¹, Saidjafarzoda Ilhom¹, Muhammed Sajjad¹, Michael E. Smith², Jerry D. Monroe², Omer San³, Ali Oguz Er^{1*}

¹Department of Physics & Astronomy, Western Kentucky University, Bowling Green, KY 42101

²Department of Biology, Western Kentucky University, Bowling Green, KY 42101

³School of Mechanical & Aerospace Engineering, Oklahoma State University, Stillwater, OK 74078

*Corresponding author. E-mail: ali.er@wku.edu (Ali Oguz Er)

Graphical abstract

Download English Version:

<https://daneshyari.com/en/article/8964218>

Download Persian Version:

<https://daneshyari.com/article/8964218>

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