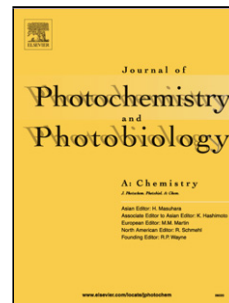


Accepted Manuscript

Title: Effect of number of positive charges on the photophysical and photodynamic therapy activities of quarternary benzothiazole substituted zinc phthalocyanine

Authors: Refilwe Matshitse, Njemuwa Nwaji, Muthumuni Mananga, Earl Prinsloo, Tebello Nyokong



PII: S1010-6030(18)30805-0
DOI: <https://doi.org/10.1016/j.jphotochem.2018.08.033>
Reference: JPC 11447

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

Received date: 11-6-2018
Revised date: 1-8-2018
Accepted date: 22-8-2018

Please cite this article as: Matshitse R, Nwaji N, Mananga M, Prinsloo E, Nyokong T, Effect of number of positive charges on the photophysical and photodynamic therapy activities of quarternary benzothiazole substituted zinc phthalocyanine, *Journal of Photochemistry and Photobiology, A: Chemistry* (2018), <https://doi.org/10.1016/j.jphotochem.2018.08.033>

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.

Effect of number of positive charges on the photophysical and photodynamic therapy activities of quarternary benzothiazole substituted zinc phthalocyanine

Refilwe Matshitse,^a Njemuwa Nwaji,^a Muthumuni Mananga,^a Earl Prinsloo^b and Tebello Nyokong^{*a}

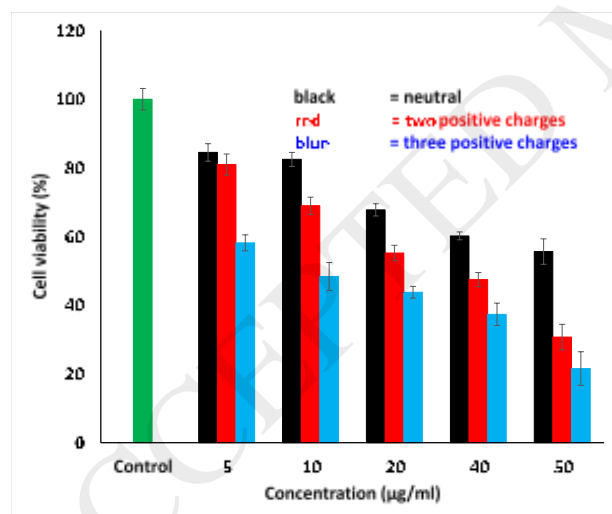
^aCentre for Nanotechnology Innovation, Department of Chemistry, Rhodes University, Grahamstown, 6140, South Africa

^bBiotechnology Innovation Centre, Rhodes University, Grahamstown 6140, South Africa

***Corresponding author.** Tel: + 27 46 6038260; Fax: + 27 46 6225109.

E-mail: t.nyokong@ru.ac.za. (T. Nyokong)

Graphical abstract



Photodynamic therapy (PDT) activity of phthalocyanines is closely related to the number of charges, with the complex with the largest number of charges showing excellent PDT activity

Download English Version:

<https://daneshyari.com/en/article/9951596>

Download Persian Version:

<https://daneshyari.com/article/9951596>

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