

2024 Publications

1. Azole Sindelo, Tebello Nyokong

Photoinactivation of microorganisms and photodegradation of pollutants using phthalocyanines supported on nanofibers and glass wool

Journal of Photochemistry & Photobiology, A: Chemistry 447 (2024) 115236 (1-12)

DOI: 10.1016/j.jphotochem.2023.115236

<https://doi.org/10.1016/j.jphotochem.2023.115236>

2. Siphumelele Thandokwazi Mkhondwane , Sithi Mgidlana , Tebello Nyokong

Asymmetric phthalocyanine-graphitic carbon nitride nanosheets conjugate on zinc oxide fibers for combined ultrasound and visible light driven degradation of Rhodamine 6G

Journal of Photochemistry & Photobiology, A: Chemistry 447 (2024) 115245 (1-12)

DOI: 10.1016/j.jphotochem.2023.115245

<https://doi.org/10.1016/j.jphotochem.2023.115245>

3. Mbulelo Jokazi and Tebello Nyokong

Electrochemical Sensing and Photoelectrodegradation of Pentachlorophenol using Co-, Mn- and Zn-Porphyrins

ChemElectroChem 11 (2024) 11, e202300364 (1-16)

DOI: doi.org/10.1002/celec.202300364

<https://doi.org/10.1002/celec.202300364>

4. Gugu Kubheka, John Mack and Tebello Nyokong

Effect of π -extension and halogenation on the optical limiting properties of meso-pyrenylBODIPY dyes

Journal of Porphyrins and Phthalocyanines; 28 (2024): 61–71

DOI: 10.1142/S1088424623501274

<https://doi.org/10.1142/S1088424623501274>

5. Aviwe K. May, Bokolombe P. Ngoy, John Mack and Tebello Nyokong

Photodynamic antimicrobial activities of a series of meso-substituted 2,6-dibrominated 1,3,5,7-tetramethylBODIPY dyes

Journal of Porphyrins and Phthalocyanines (28) 2024 88-96

DOI: 10.1142/S1088424623501316

<https://doi.org/10.1142/S1088424623501316>

6. James Oyim, Mbulelo Jokazi, John Mack, Edith Amuhaya and Tebello Nyokong

Indium porphyrin - colloidal activated carbon composites for photocatalytic activity against an organic pollutant and bacteria

Polyhedron 253 (2024) 116918 (1-12)

DOI: 10.1016/j.poly.2024.116918

<https://doi.org/10.1016/j.poly.2024.116918>

7. N. Bridged Magaela, Muthumuni Managa, Tebello Nyokong

The synthesis of 5,10,15,20-tetra pentafluorophenyl porphyrin loaded onto spermine modified carbon nanospheres for enhanced cancer selectivity in photodynamic therapy

Journal of Molecular Structure 1306 (2024) 137898 (1-10)

DOI: 10.1016/j.molstruc.2024.137898

<https://doi.org/10.1016/j.molstruc.2024.137898>

8. Siphumelele Thandokwazi Mkhondwane, Sithi Mgidlana, Yolande Openda, Nnamdi Nwahara, Tebello Nyokong
Phthalocyanine conjugated manganese ferrite nanoparticles embedded in TiO₂ fibers for photo-, sono- and photosono-catalytic degradation of Rhodamine 6G

Catalysis Today 432 (2024) 114644

DOI: 10.1016/j.cattod.2024.114644

<https://doi.org/10.1016/j.cattod.2024.114644>

9. Athi Welsh, Refilwe Matshitse, Saif F. Khan, Tebello Nyokong, Sharon Prince, Gregory S. Smith

Trinuclear ruthenium(II) polypyridyl complexes: Evaluation as photosensitizers for enhanced cervical cancer treatment

Journal of Inorganic Biochemistry 256 (2024) 112545 (1-10)

DOI: 10.1016/j.jinorgbio.2024.112545

<https://doi.org/10.1016/j.jinorgbio.2024.112545>