

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) e202300364 (1-16)

DOI: doi.org/10.1002/celc.202300364

<https://doi.org/10.1002/celc.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>

10. Shahid U. Khan, Refilwe Matshitse, Rituraj Borah, Manjunatha Nemakal, Ekaterina O. Moiseeva, Tatiana V. Dubinina, Tebello Nyokong, Sammy W. Verbruggen and Karolien De Wael

Coupling of phthalocyanines with plasmonic gold nanoparticles by click chemistry for an enhanced singlet oxygen based photoelectrochemical sensing

ChemElectroChem 2024, e202300677 (1 of 10)

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