

2025 Publications

1. James Oyim, Aviwe Magadla, John Mack, Edith Amuhaya, Tebello Nyokong
Expanding the horizons of photodynamic therapy: Indium metalated pyridinyl-based *trans*-A₂B₂ porphyrin as novel anti-biofilm agents
Dyes and Pigments 232 (2025) 112448 (1-13)
DOI: 10.1016/j.dyepig.2024.112448
<https://doi.org/10.1016/j.dyepig.2024.112448>
2. Mbulelo Jokazi , Sixolile Centane , Philani Mashazi , Tebello Nyokong
Photoelectrodegradation and sensing of pentachlorophenol using In and Mn metalated porphyrins in the presence of TiO₂ nanoparticles
Journal of Photochemistry & Photobiology, A: Chemistry 460 (2025) 116118 (1-13)
DOI: 10.1016/j.jphotochem.2024.116118
<https://doi.org/10.1016/j.jphotochem.2024.116118>
3. Vuyokazi Nobatana, James Oyim, Nnamdi Nwahara, Earl Prinsloo, Tebello Nyokong
The potential of photodynamic therapy combined with hyperthermia using porphyrin-nanomaterial hybrids against the triple-negative breast cancer cell line
Polyhedron 267 (2025) 117341 (1-12)
DOI: 10.1016/j.poly.2024.117341
<https://doi.org/10.1016/j.poly.2024.117341>
4. N. Bridged Magaela, Muthumuni Managa and Tebello Nyokong
Gold-silver bimetallic nanoparticles conjugated to asymmetric porphyrin for photodynamic therapy against triple negative breast cancer
Journal of Luminescence 280 (2025) 121065 (1-12)
DOI: 10.1016/j.jlumin.2025.121065
<https://doi.org/10.1016/j.jlumin.2025.121065>
5. Mbulelo Jokazi, Mope Edwin Malefane, Tracy Giota Tebogo Moraba, Thabo Thokozani Innocent Nkambule, Alex Tawanda Kuvarega, Tebello Nyokong, Muthumuni Managa
Photocatalytic activity of MnCl and Cu 5,10,15,20-Tetrakis(4-aminophenyl) porphyrins conjugated to graphene quantum dots against Rhodamine B dye using visible light
Journal of Water Process Engineering 71 (2025) 107188
DOI: 10.1016/j.jwpe.2025.107188
<https://doi.org/10.1016/j.jwpe.2025.107188>
6. Vuyokazi Nobatana, James Oyim, Nnamdi Nwahara, Azole Sindelo, Tebello Nyokong
The photodynamic anti-cancer and anti-bacterial behaviour of meso-substituted *trans*-A₂B₂ porphyrin conjugated silica-gold nanoparticles
Inorganica Chimica Acta 579 (2025) 122584 (1-13)
DOI: 10.1016/j.ica.2025.122584
<https://doi.org/10.1016/j.ica.2025.122584>
7. Siphumelele Thandokwazi Mkhondwane , Tebello Nyokong
The use of phthalocyanines@g-C₃N₄ nanosheets conjugates supported on TiO₂ fibers for photosono-catalytic degradation of rhodamine 6G
Diamond & Related Materials 153 (2025) 112067

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