

2005 Publications

1. J. Obirai and T. Nyokong
Synthesis, Spectral and Electrochemical Characterization of Mercaptopyrimidine Substituted Cobalt (II), Iron (II), Manganese (II) and Zn (II) Phthalocyanine Complexes.
Electrochim. Acta, 50 (2005) 3296-3304.
2. A.O. Ogunsipe and T. Nyokong
Effect of central metal on the photophysical and photochemical properties of non-transition metal phthalocyanine sulphonates.
J. Porphyrins, Phthalocyanines 9 (2005) 121-129.
3. Z. Zhixin, A. O. Ogunsipe, M. D. Maree and T. Nyokong
Synthesis and photophysical properties of a covalently linked porphyrin-phthalocyanine conjugate.
J. Porphyrins, Phthalocyanines 9 (2005) 186-197.
4. B. Agboola, K. I. Ozoemena and T. Nyokong
Hydrogen peroxide oxidation of 2-chlorophenol and 2, 4, 5-trichlorophenol catalyzed by cobalt tetrasulfophthalocyanine,
J. Mol. Cat. A: Chem. 227 (2005) 209-216.
5. J. Obirai, F. Bedioui and T. Nyokong
Electrooxidation of phenol and its derivatives on poly- Ni(OH)TPhPyPc modified vitreous carbon electrodes.
J. Electroanal. Chem. 576 (2005) 323-332.
6. N. Pereira Rodrigues, J. Obirai, T. Nyokong and F. Bedioui
Electropolymerized pyrrole-substituted manganese phthalocyanine films for the electroassisted biomimetic catalytic reduction of molecular oxygen.
Electroanalysis 17 (2005) 186-190.
7. D.S. Maharaj, H. Molell, E.A. Antunes, H. Maharaj, D.M. Maree, T. Nyokong, B.D. Glass and S. Daya
Melatonin generates singlet oxygen on laser irradiation but acts as a quencher when irradiated by lamp photolysis.
J. Pineal Research, 38 (2005) 153-156
8. I. Seotsanyana-Mokhosi, J.-Y. Chen and T. Nyokong
Synthesis, Photophysicochemical studies of adjacently tetrasubstituted binaphthalo phthalocyanines
J. Porphyrins Phthalocyanines 9 (2005) 316-325.
9. A.O. Ogunsipe and T. Nyokong
Photophysical and Photochemical properties of Sulfonated metallophthalocyanines in aqueous and non-aqueous solvents.
J. Photochem. Photobiol. A: Chem. 173 (2005) 211-220
10. J. Obirai and T. Nyokong

Synthesis, Electrochemical and electrocatalytic behaviour of Thiophene Derivatized Cobalt, Manganese and Zinc Phthalocyanine Complexes.
Electrochim. Acta 50 (2005) 5427-5434

11. W. Maqanda, D.M. Maree and T. Nyokong
Photochemical and photophysical properties of alkoxy and naphthoxy appened magnesium and zinc phthalocyanines.
J. Porphyrins Phthalocyanines, 9 (2005) 343-351.

12. K.I. Ozoemena and T. Nyokong
Electrocatalytic oxidation and detection of hydrazine at gold electrode modified with iron phthalocyanine complex linked to mercaptopyrindine self-assembled monolayer.
Talanta 67 (2005) 162-168.

13. K.I. Ozoemena and T. Nyokong,
Surface electrochemistry of iron phthalocyanine axially ligated to 4-mercaptopyridine self-assembled monolayers at gold electrode: Applications to electrocatalytic oxidation and detection of thiocyanate
J. Electroanal. Chem. 2005 579 (2005) 283-289.

14. Zhixin Zhao, K. I. Ozoemena, M. D. Maree and T. Nyokong
Synthesis and Electrochemical studies of a covalently linked Co(II)porphyrin-Co(II)phthalocyanine conjugate.
Dalton Trans (2005) 1241-1248.

15. A.O. Ogunsipe and T. Nyokong
Photophysicochemical consequences of bovine serum albumin binding to non-transition metal phthalocyanine Sulphonates.
Photochem. Photobiol. Scie. 4 (2005) 510-516.

16. K. I. Ozoemena, Z. Zhao, and T. Nyokong
Electrochemistry of an immobilized cobalt (II) phthalocyanine -- cobalt (II) porphyrin pentamer at a glassy carbon electrode : Application to amperometric sensing of hydrogen peroxide in neutral and basic media.
Electrochem. Comm. 7 (2005) 679-684.

17. D.S. Maharaj, H. Maharaj, E.M. Antunes, D.M. Maree, T. Nyokong, B.G. Glass and S. Daya
6-hdroxymelatonin protects against quinoline-acid-induced oxidative neurotoxicity in the rat hippocampus.
J. Pharm. Pharmacol. 57 (2005) 877-881.

18. I. Seotsanyana-Mokhosi and T. Nyokong,
Photophysical properties of a water-soluble adjacently substituted bisnaphthalophthalocyanine.
J. Porphyrins Phthalocyanines 9 (2005) 476-483.

19. F. Matemadombo, M.D. Maree, K.I. Ozoemena, P. Westbroek and T. Nyokong
Synthesis, electrochemical and spectroelectrochemical studies of octaalkylthiosubstituted phthalocyanines
J. Porphyrins Phthalocyanines 9 (2005) 484 -490.

20. E. Antunes, M. D. Maree, S. E. Maree, T. Nyokong and M.T. Davies-Coleman
The effect of structure on the electrochemical properties of 14 marine pyrroloquinoline
metabolites
J. Chem. Res. (2005) 780-783.

21. Z. Zhao, M. D. Maree and T. Nyokong
Synthesis and Photophysical properties and Solvent effect of trimer and nonamer of covalently
linked porphyrin zinc—phthalocyanine zinc conjugate.
Dalton Trans. (23) (2005) 3732-3737.