

2009 Publications

1. N. Nombona and T. Nyokong
Synthesis, cyclic voltammetry and spectroelectrochemical studies of Co (II) phthalocyanines tetra-substituted at the 2 and 3 positions with phenylthio groups.
Dyes and Pigments 80 (2009) 130-135.
2. N. Masilela, M. Idowu and T. Nyokong
Photophysical, photochemical and electrochemical properties of water soluble silicon, titanium and tin Metallophthalocyanines.
J. Photochem. Photobiol. A: Chem., 201 (2009) 91-97.
3. S. Moeno, and T. Nyokong
Opposing Responses elicited by Positively Charged Phthalocyanines in the presence of CdTe Quantum Dots.
J. Photochem. Photobiol. A: Chem. 201 (2009) 228-236.
4. M. Idowu and T. Nyokong
Synthesis, photophysical and photochemical studies of water soluble cationic zinc phthalocyanine derivatives.
Polyhedron 28 (2009) 416-424.
5. M. Idowu and T. Nyokong
Interaction of water soluble CdTe quantum dots with octacarboxy metallophthalocyanines: A photophysical and photochemical study.
J. Luminescence, 129 (2009) 356-362
6. O. Köysal, M. Okutan, S. Eren San, T. Nyokong and M. Durmuş,
Diffraction efficiency and I-V characteristics of metal-free phthalocyanine doped nematic liquid crystals.
Material Chemistry and Physics 114 (2009) 815-829
7. D. K. Modibane and T. Nyokong
Synthesis, photophysical and photochemical properties of octa-substituted antimony phthalocyanines.
Polyhedron, 28 (2009) 479-484
8. W. Chidawanyika and T. Nyokong
Spectroscopic and photophysicochemical behaviour of novel cadmium phthalocyanine derivatives tetra-substituted at the alpha and beta positions.
J. Photochem. PhotoBiol. A: Chem, 202 (2009) 99-106.
9. J.H. Zagal, S. Griveau, K.I. Ozoemena, T. Nyokong, and F. Bedioui
Carbon nanotubes, phthalocyanines and porphyrins: attractive hybrid materials for electrocatalysis and electroanalysis.
Journal for nanoscience and nanotechnology 9 (2009) 2201-2214
10. E. Antunes, T. Nyokong
Synthesis and photophysical behaviour of axially substituted phthalocyanine, tetrabenzotriazaporphyrin and triazatetrabenzocorrole phosphorous complexes.
J. Porphyrins Phthalocyanines, 13 (2009) 153-160
11. M. Idowu and T. Nyokong

Study of the photophysical behaviour of tetrasulfonated metallophthalocyanines in the presence of CdTe quantum dots.

Polyhedron, 28 (2009) 891-896

12. M. Durmu?, A. Erdo?mu?, A. Ogunsipe, and T. Nyokong

The synthesis, photophysicochemical behaviour of new water-soluble cationic indium (III) phthalocyanine.

Dyes and pigments. 89 (2009) 244-250. Hot paper status

13. S. Moeno and T. Nyokong

Solvent and central metal effects on the photophysical and photochemical properties of peripherally tetra mercaptopyridine substituted metallophthalocyanines.

J. Photochem. Photobiol. A: Chem. 203 (2009) 204-210

14. M. Idowu and T. Nyokong

Photophysicochemical and fluorescence quenching studies of tetra- and octa-carboxy substituted silicon and germanium phthalocyanines.

J. Photochem. Photobiol. A: Chem 204 (2009) 63-68

15. N. Nombona, D.A. Geraldo, J. Hakuzimana, P. Westbroek and T. Nyokong

Comparative electrocatalytic behavior of self-assembled monolayer of thiol derivatised Co (II) phthalocyanines on gold disk, ultramicro cylinder and fiber electrodes.

J. Appl. Electrochem. 39(5) (2009) 727-737

16. T.B. Ogunbayo, A. Ogunsipe and T. Nyokong

Syntheses, characterization and fluorescence spectra of Novel octakis(alkylthiophthalocyanato) nickel(II) and palladium(II) complexes.

Dyes and Pigments 82 (2009) 422-426.

17. D. K. Modibane and T. Nyokong

Synthesis, photophysical and nonlinear optical properties of 4-tetra and octa-substituted lead phthalocyanines.

Polyhedron, 28 (2009) 1475-1480.

18. A. Erdo?mu?, A. Ogunsipe and T. Nyokong

Synthesis, Photophysics and Photochemistry of Novel Tetra(quinoxaliny)phthalocyaninato zinc(II) Complexes.

J. Photochem. Photobiol. A: Chem. 205 (2009) 12-18

19. F. Matemadombo, M. Durmu?, C. Togo, J. Limson and T. Nyokong

Characterization of manganese tetraalkylthiosubstituted phthalocyanines self assembled monolayers.

Electrochim. Acta, 54 (2009) 5557-5565

20. K.I. Ozoemena, R-I Stefan-van Staden and T. Nyokong

Metallophthalocyanine Based Carbon Paste Electrodes for the Determination of 2',3'-Dideoxyinosine.

Electroanalysis 21(14) (2009), 21, 1651 – 1654

21. K.I. Ozoemena, S.A. Mamuru, T. Fukuda, N. Kobayashi and T. Nyokong

Metal (Co, Fe) Tribenzotetraazachlorin –Fullerene Conjugates: Impact of direct π -bonding on the redox behaviour and oxygen reduction reaction.

Electrochem. Comm.11(6) (2009) 1221-1225.

22. G. Mbambisa, N. Nombona and T. Nyokong
The formation of self-assembled monolayers of thiophthalocyanine complexes of titanium , vanadium and manganese and their use in L-cysteine electrocatalysis.
Microchem. J. 93 (2009) 60–66.
23. W. Chidawanyika, and T. Nyokong
The synthesis and spectroscopic study of low-symmetry phthalocyanine analogues and their photophysicochemical properties.
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24. N. Saydan, M. Durmu?, M. G. Dizge, H. Yaman, A.G. Gürek, E. Antunes, V. Ahsen and T. Nyokong
Water soluble phthalocyanines mediated photodynamic effect on mesothelioma cells.
J. Porphyrins Phthalocyanines 13 (2009) 681-690
25. T. Mugadza and T. Nyokong,
Synthesis and characterization of electrocatalytic conjugates of tetraamino cobalt (II) phthalocyanine and single wall carbon nanotubes.
Electrochim Acta, 54 (2009) 6347-6353
26. T.B. Ogunbayo and T. Nyokong
Synthesis and Pd(II) binding studies of octasubstituted alkyl thio derivatised phthalocyanines.
Polyhedron, 28 (13) (2009) 2710-2718
27. A. Erdo?mu? and T. Nyokong
New soluble methylenedioxy-phenoxy-substituted zinc phthalocyanine derivatives: synthesis, photophysical and photochemical studies. HOT PAPER Status
Polyhedron, 28 (2009) 2855-2862
28. I.A. Akinbulu and T. Nyokong
Synthesis, spectroscopic and electrochemical properties of manganese, nickel and iron octakis-(2-diethylaminoethanethiol)-phthalocyanine.
Polyhedron, 28 (2009) 2831-2838
29. J. Britton, E. Antunes and T. Nyokong
Fluorescence studies of quantum dots and zinc tetraamino phthalocyanine conjugates.
Inorg. Chem. Commun 12 (2009) 828-831
30. F. Matemadombo, M. Durmu?, V. Escriou, S. Griveau, F. Bedioui and T. Nyokong
Manganese phthalocyanines as superoxide dismutase mimics.
Current Analytical Chemistry 5 (2009) 330-338.
31. I.A. Akinbulu and T. Nyokong
Characterization of polymeric film of a new manganese phthalocyanine complex octa-substituted with 2-diethylaminoethanethiol, and its use for the electrochemical detection of bentazon.
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32. R .C. George, M. Durmus, G.O. Egharevba and T. Nyokong
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Polyhedron 28 (2009) 3621-3627.

33. A. Erdo?mu?, and T. Nyokong
Synthesis, photophysical and photochemical properties of novel soluble tetra[4-(thiophen-3yl)-phenol]phthalocyaninato zinc(II) and TiO(IV) complexes.
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34. S. Khene, K. Lobb and T. Nyokong
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35. F. Matemadombo, N. Sehlotho and T. Nyokong
Effect of number of ring substituents of cobalt carboxyphthalocyanines on the electrocatalytic detection of nitrite, cysteine and melatonin.
J. Porphyrins Phthalocyanines, 13 (2009) 986-997
36. W. Chidawanyika, J. Mack, S. Shimizu, N. Kobayashi and T. Nyokong
Effect of peripheral fused ring substitution on the optical spectroscopy and electronic structure of metal phthalocyanine complexes.
J. Porphyrins Phthalocyanines 13 (2009) 1053–1062
37. G. Ochoa, D. Geraldo, C. Linares, T. Nyokong, F. Bedioui and J. H. Zagal
Tuning the Formal Potential of Metallomacrocyclics for Maximum Catalytic Activity For the Oxidation of Thiols and Hydrazine
Electrochemical Society Transactions (ECS Transactions), ECS Trans. 19 (32), (2009) 97-112.