

1. N. Masilela, P. Kleyi, Z. Tshentu, G. Priniotakis, P. Westbroek and T. Nyokong  
Photodynamic of inactivation Staphylococcus aureus using low symmetrically substituted phthalocyanines supported on a polystyrene polymer fiber  
Dyes and Pigments 96(2) (2013) 500-508  
<http://dx.doi.org/10.1016/j.dyepig.2012.10.001>  
DOI:10.1016/j.dyepig.2012.10.001
2. Phindile Khoza, Edith Antunes, Ji-Yao Chen, Tebello Nyokong  
Synthesis and photophysical studies of a water soluble conjugate between folic acid and zinc tetraaminophthalocyanine  
J. Luminescence. 134 (2013) 784-790  
<http://dx.doi.org/10.1016/j.jlumin.2012.06.048>  
DOI: 10.1016/j.jlumin.2012.06.048
3. Oluwasesan Adegoke, Tebello Nyokong  
Probing the sensitive and selective luminescent detection of peroxynitrite using thiol-capped CdTe and CdTe@ZnS quantum dots  
J. Luminescence, 134 (2013) 448-455  
<http://www.sciencedirect.com/science/article/pii/S0022231312004577>  
DOI: 10.1016/j.jlumin.2012.08.002
4. R. Zügler, T. Nyokong  
Zinc(II) 2,9,16,23-tetrakis[4-(N-methylpyridyloxy)]-phthalocyanine anchored on an electrospun polysulfone polymer fiber: Application for photosensitized conversion of methyl orange  
J. Mol. Catal. A: 366 (2013) 247-253  
<http://dx.doi.org/10.1016/j.molcata.2012.10.001>  
DOI:10.1016/j.molcata.2012.10.001
5. J. Britton, C. Litwinski, E. Antunes, M. Durmuş, V. Chauke, T. Nyokong  
Optical limiting analysis of phthalocyanines in polymer thin films  
Journal of Macromolecular Science, Part A: Pure and Applied Chemistry 50(1) (2013), 110-120  
<http://www.tandfonline.com/doi/abs/10.1080/10601325.2013.736269>  
DOI: 10.1080/10601325.2013.736269
6. K.E. Sekhosana, E. Antunes, S. Khene, S. D'Souza, T. Nyokong  
Fluorescence behavior of glutathione capped CdTe@ZnS quantum dots chemically coordinated to zinc octacarboxy phthalocyanines  
J. Luminescence, 136 (2013) 255 – 264  
<http://dx.doi.org/10.1016/j.jlumin.2012.11.044>  
DOI: 10.1016/j.jlumin.2012.11.044
7. B. De Schoenmaker L. Van der Schueren, R. Zügler, A. Goethals, P. Westbroek, P. Kiekens, T. Nyokong Tebello,  
K. De Clerck  
Effect of the relative humidity on the fibre morphology of polyamide 4.6 and polyamide 6.9 nanofibres  
J. Mater. Sci. 48 (4) (2013) 1746-1754  
<http://hdl.handle.net/1854/LU-3118590>

DOI 10.1007/s10853-012-6934-9

8. R. S. Walmsley, P. Hlangothi, C. Litwinski, T. Nyokong, N. Torto, Z. R. Tshentu  
Catalytic oxidation of thioanisole using oxovanadium(IV)-functionalized electrospun  
polybenzimidazole nanofibers,

J. Appl. Polymer Sci. 127 (6) (2013) 4719-4725

<http://onlinelibrary.wiley.com/doi/10.1002/app.38067/full>

DOI: 10.1002/app.38067

9. Ruphino Zügale, Tebello Nyokong

Comparative phototransformation of environmental pollutants using metallophthalocyanines  
supported on electrospun polymer fibers

J. App. Polymer Science 128(2) (2013) 1131-1142

<http://onlinelibrary.wiley.com/doi/10.1002/app.38381/full>

DOI: 10.1002/app.38381

10. E. Rohwer, C. Richter, N. Heming, K. Strauch, C. Litwinski, T. Nyokong, D. Schlettwein, H.  
Schwoerer

Ultrafast Photodynamics of the Indoline Dye D149 Adsorbed to Porous ZnO in Dye-Sensitized Solar  
Cells

ChemPhysChem, 14(1) (2013) 132-139

<http://onlinelibrary.wiley.com/wol1/doi/10.1002/cphc.201200715/full>

DOI: 10.1002/cphc.201200715

11. E. Rohwer, C. Litwinski, K. Strauch, N. Heming, C. Richter, T. Nyokong, D. Schlettwein,  
H. Schwoerer

Photoinduced charge transfer between Indoline D149 and porous ZnO detected in transient  
absorption

EPJ Web of Conferences 41 (2013), 04011.

<http://dx.doi.org/10.1051/epjconf/20134104011>

DOI: 10.1051/epjconf/20134104011

12. Nomasonto Rapulenyane, Edith Antunes and Tebello Nyokong

A study of the photophysicochemical and antimicrobial properties of two zinc phthalocyanine - silver  
nanoparticle conjugates

New J. Chem. 37 (4) (2013) 1216-1223

<http://xlink.rsc.org/?DOI=c3nj41107a>

DOI: 10.1039/c3nj41107a

13. Edith Antunes, Nomasonto Rapulenyane, Mpho Ledwaba, Christian Litwinski, Wadzanai  
Chidawanyika, Tebello Nyokong.

The synthesis and characterisation of magnetic nanoparticles and their interaction with a zinc  
phthalocyanine

Inorganic Chemistry Communications 29 (2013) 60-64

<http://www.sciencedirect.com/science/article/pii/S1387700312005771>

DOI: 10.1016/j.inoche.2012.12.010

14. Megan Coates, Tebello Nyokong  
Characterization of glassy carbon electrodes modified with iron phthalocyanine through grafting and click chemistry  
Electrochim. Acta. 91 (2013) 158-165.  
<http://dx.doi.org/10.1016/j.electacta.2012.12.112>  
DOI: 10.1016/j.electacta.2012.12.112
15. S. Tombe, E. Antunes, T. Nyokong  
The photophysical and photochemical behaviour of coumarin-derivatized zinc phthalocyanine when conjugated with gold nanoparticles and electrospun into polymer fibers  
New J Chem. 37(3) (2013) 679-689  
<http://xlink.rsc.org/?DOI=c2nj40984d>  
DOI: 10.1039/c2nj40984d
16. N. Masilela and T. Nyokong, The interaction of silver nanoparticles with low symmetry cysteinyl metallophthalocyanines and their antimicrobial effect.  
J. Photochem. Photobiol. A: Chem. 255 (2013) 1-9  
<http://dx.doi.org/10.1016/j.jphotochem.2013.01.009>  
DOI: 10.1016/j.jphotochem.2013.01.009
17. T. P. Mthethwa, S. Tuncel, M. Durmu? and Tebello Nyokong  
Photophysical and photochemical properties of a novel thiol terminated low symmetry zinc phthalocyanine complex and its gold nanoparticles conjugate  
Dalton Trans 42 (14) (2013) 4922-4930  
<http://www.ncbi.nlm.nih.gov/pubmed/23385542>  
DOI: 10.1039/c3dt32698e
18. S. Tombe, E. Antunes and T. Nyokong  
Electrospun fibers functionalized with phthalocyanine-gold nanoparticle conjugates for photocatalytic applications  
J. Mol. Cat. A: Chem –371 (2013) 125-134  
<http://dx.doi.org/10.1016/j.molcata.2013.01.033>  
DOI: 10.1016/j.molcata.2013.01.033
19. A. Fashina, E. Antunes, T. Nyokong,  
Characterization and photophysical behavior of Phthalocyanines when grafted onto Silica Nanoparticles  
Polyhedron 53 (2013) 278-285  
<http://dx.doi.org/10.1016/j.poly.2013.01.037>  
DOI: 10.1016/j.poly.2013.01.037
20. O. Adegoke, E. Antunes, T. Nyokong  
Nanoconjugates of CdTe@ZnS quantum dots with cobalt tetraamino-phthalocyanine: characterization and implications for the fluorescence recognition of superoxide anion  
J. Photochem. Photobiol. A: Chem. 257 (2013) 11–19  
<http://dx.doi.org/10.1016/j.jphotochem.2013.02.010>  
DOI: 10.1016/j.jphotochem.2013.02.010

21. D. Quinton, A. Maringa, S. Griveau, T. Nyokong, F. Bedioui  
Surface patterning using scanning electrochemical microscopy to locally trigger a “click” chemistry reaction  
Electrochem. Comm. 31 (2013) 112-115  
<http://dx.doi.org/10.1016/j.elecom.2013.03.021>  
DOI: 10.1016/j.elecom.2013.03.021
22. K. E. Sekhosana, E. Antunes, T. Nyokong,  
Glutathione capped CdTe@ZnS quantum dots – zinc tetracarboxy phthalocyanine conjugates: fluorescence behaviour studies in comparison with zinc octacarboxy phthalocyanine  
Polyhedron, 54 (2013) 294-299  
<http://dx.doi.org/10.1016/j.poly.2013.02.060>  
DOI: 10.1016/j.poly.2013.02.060
23. N. Malinga, E. Antunes, T. Nyokong  
Synthesis and physicochemical behaviour of aluminium bis and tris(diammineplatinum) octacarboxyphthalocyanine  
Polyhedron, 55 (2013) 121-125  
<http://dx.doi.org/10.1016/j.poly.2013.02.073>  
DOI: 10.1016/j.poly.2013.02.073
24. M. Coates, T. Nyokong  
X-ray photoelectron spectroscopy analysis of the effect of alkyl- and arylthio substituents on manganese phthalocyanines for self-assembled monolayer formation on gold  
Electrochem. Comm. 31 (2013) 104-107  
<http://dx.doi.org/10.1016/j.elecom.2013.03.019>  
DOI: 10.1016/j.elecom.2013.03.019
25. A. Maringa, T. Mugadza, E. Antunes, T. Nyokong  
Characterization and electrocatalytic behaviour of glassy carbon electrode modified with nickel nanoparticles towards amitrole detection.  
J. Electroanal. Chem, 700 (2013) 86-92  
<http://dx.doi.org/10.1016/j.jelechem.2013.04.022>  
DOI: 10.1016/j.jelechem.2013.04.022
26. P. Mashazi, P. Tetyana, S. Vilakazi, T. Nyokong  
Electrochemical impedimetric immunosensor for the detection of measles-specific IgG antibodies after measles infections.  
Biosensors and Bioelectronics 49 (2013) 32-38  
<http://dx.doi.org/10.1016/j.bios.2013.04.028>  
DOI: 10.1016/j.bios.2013.04.028
27. J. Britton, E. Antunes, T. Nyokong  
Synthesis and nonlinear optical examination of 3(4),15(16)-Bis-(4 -tert-butyl-phenoxy)-10,22-diaminohemiporphyrinato chloroindium  
J. Mol. Struc. 1047 (2013) 143-148  
<http://linkinghub.elsevier.com/retrieve/pii/S0022286013003943>  
DOI: 10.1016/j.molstruc.2013.05.001

28. Racheal O. Ogbodu, Edith Antunes, Tebello Nyokong  
Physicochemical properties of zinc monoamino phthalocyanine conjugated to folic acid and single walled carbon nanotubes  
Polyhedron 60 (2013) 59–67  
<http://www.sciencedirect.com/science/article/pii/S0277538713003938>  
DOI:10.1016/j.poly.2013.05.025
29. S. D'Souza, S. Moeno, E. Antunes, T. Nyokong  
Effects of gold nanoparticle shape on the aggregation and fluorescence behaviour of water soluble zinc phthalocyanines.  
New J. Chem. 37(7) (2013) 1950-1958  
<http://xlink.rsc.org/?DOI=c3nj00146f>  
DOI: 10.1039/c3nj00146f
30. T. Nyokong, E. Antunes  
Influence of nanoparticles on the photophysical behavior of phthalocyanines  
Coord. Chem. Rev 257(15-16) (2013) 2401-2418  
<http://dx.doi.org/10.1016/j.ccr.2013.03.016>  
DOI: 10.1016/j.ccr.2013.03.016
31. Oluwasesan Adegoke, Tebello Nyokong  
Fluorescence “turn on” probe for bromide ion using nanoconjugates of glutathione-capped CdTe@ZnS quantum dots with nickel tetraamino-phthalocyanine: characterization and size-dependent properties.  
J. Photochem. Photobiol. A: Chem, 265 (2013) 58-66  
<http://www.sciencedirect.com/science/article/pii/S1010603013002268>  
DOI: 10.1016/j.jphotochem.2013.05.013
32. R.O. Ogbodu, E. Antunes, T. Nyokong  
Physicochemical properties of zinc phthalocyanine – pyrene conjugate adsorbed onto single wall carbon nanotubes.  
Dalton Trans, 42 (30) (2013) 10769-10777  
<http://pubs.rsc.org/en/content/articlehtml/2013/dt/c3dt50335f>  
DOI: 10.1039/c3dt50335f
33. P. Khoza, E. Antunes, T. Nyokong  
Synthesis and photophysicochemical properties of zinc phthalocyanine derivatized with benzothiazole or carbazole photosensitizers.  
Polyhedron 61 (2013) 119-125  
<http://dx.doi.org/10.1016/j.poly.2013.05.046>  
DOI: 10.1016/j.poly.2013.05.046
34. P. Modisha, E. Antunes, J. Mack and T. Nyokong  
Improvement of the photophysical parameters of zinc octacarboxy phthalocyanine upon conjugation to magnetic nanoparticles  
International Journal of Nanoscience, 12(2) (2013) 1350010 (10 pages)  
<http://www.worldscientific.com/doi/abs/10.1142/S0219581X13500105>

DOI: 10.1142/S0219581X13500105

35. Nkosiphile Masilela, Edith Antunes and Tebello Nyokong

Axial coordination of zinc and silicon phthalocyanines to silver and gold nanoparticles: an investigation of their photophysical and antimicrobial behavior.

J. Porphyrins Phthalocyanines (special issue Prof Özer Bekaroğlu) 2013; 17(6-7) 417–430

<http://www.worldscientific.com/doi/abs/10.1142/S1088424613500016>

DOI: 10.1142/S1088424613500016

36. A. Fashina, E. Antunes, T. Nyokong,

Silica nanoparticles grafted with phthalocyanines: photophysical properties and studies in artificial lysosomal fluid.

New J Chem. 37 (9) (2013) 2800 – 2809

<http://xlink.rsc.org/?DOI=c3nj00439b>

DOI: 10.1039/c3nj00439b

37. J. Mack, X. Liang, T.V. Dubinina, L. G. Tomilova, T. Nyokong, N. Kobayashi

MCD spectroscopy and TD-DFT calculations of a naphthalene-ring-bridged coplanar binuclear phthalocyanine dimer

J. Porphyrins Phthalocyanines (special issue Prof Özer Bekaroğlu), 17(6-7) (2013) 489-500

<http://www.worldscientific.com/doi/abs/10.1142/S1088424613500259>

DOI: 10.1142/S1088424613500259

38. J. Britton, M. Durmuş, Samson Khene, V. Chauke, T. Nyokong

Third order nonlinear optical properties of phthalocyanines in the presence nanomaterials and in polymer thin films, J. Porphyrins Phthalocyanines (Special issue Lukyanets) 17(8-9) (2013) 691-702

<http://www.worldscientific.com/doi/abs/10.1142/S108842461350003X>

DOI: 10.1142/S108842461350003X

39. R. S. Walmsley, C. Litwinski, E. Antunes, P. Hlangothi, E. Hosten, C. McClelland, T. Nyokong, N. Torto,

Z. R. Tshentu

Oxovanadium(IV)-containing poly(styrene-co-4'-ethenyl-2-hydroxyphenylimidazole) electrospun nanofibers for the catalytic oxidation of thioanisole.

J. Mol. Cat. A: Chem. 379 (2013) 94-102

<http://www.sciencedirect.com/science/article/pii/S138111691300280X>

DOI: 10.1016/j.molcata.2013.07.018

40. S. O. Sanusi, E. Antunes, T. Nyokong

Nonlinear optical behavior of metal octaphenoxo phthalocyanines: effect of distortion caused by the central metal

J. Porphyrins Phthalocyanine 17(10) (2013) 920-927, In honours of Prof Ahsen

<http://www.worldscientific.com/doi/abs/10.1142/S1088424613500715>

DOI: 10.1142/S1088424613500715

41. M. Coates, T. Nyokong

X-ray photoelectron spectroscopy and scanning electrochemical microscopy studies of branched multiwalled carbon nanotube paper modified by electrochemical grafting and click chemistry.

Int J. Nanosci. 12 (3) (2013) 1350017, 8 Pages (1-8)  
<http://www.worldscientific.com/doi/abs/10.1142/S0219581X13500178>  
DOI: 10.1142/S0219581X13500178

42. J. Britton, M. Durmus, V. Chauke, T. Nyokong  
Poly methyl methacrylate films containing metallophthalocyanines in the presence of CdTe quantum dots: Non-linear optical behaviour and triplet state lifetimes.  
Journal of Molecular Structure 1054–1055 (2013) 209–214  
<http://www.sciencedirect.com/science/article/pii/S0022286013007928>  
DOI:10.1016/j.molstruc.2013.09.017

43. T. Nyokong, J. Limson  
An Education in Progress.  
Nature Nanotechnology 8(11) 2013 789-791  
<http://www.nature.com/nnano/journal/v8/n11/full/nnano.2013.235.html>  
DOI: 10.1038/nnano.2013.235

44. P. Mashazi, S. Vilakazi, T. Nyokong  
Design and evaluation of an electrochemical immunosensor for measles serodiagnosis using measles-specific Immunoglobulin G antibodies  
Talanta (2013), 115, 694-701  
<http://dx.doi.org/10.1016/j.talanta.2013.06.036>  
DOI:10.1016/j.talanta.2013.06.036

45. O. Adegoke, S. Khene, T. Nyokong  
Fluorescence "Switch on" of Conjugates of CdTe@ZnS Quantum Dots with Al, Ni and Zn Tetraamino-Phthalocyanines by Hydrogen Peroxide: Characterization and Applications as Luminescent Nanosensors.  
Journal of Fluorescence (2013), 23(5), 963-974  
<http://link.springer.com/article/10.1007/s10895-013-1222-x>  
DOI:10.1007/s10895-013-1222-x

46. O.E. Fayemi, A.S. Ogunlaja, P.F.M. Kempgens, E. Antunes, N. Torto, T. Nyokong, Z.R. Tshentu  
Adsorption and separation of platinum and palladium by polyamine functionalized polystyrene-based beads and nanofibers.  
Minerals Engineering (2013), 53, 256-265.  
<http://dx.doi.org/10.1016/j.mineng.2013.06.006>  
DOI:10.1016/j.mineng.2013.06.006

47. A.S. Ogunlaja, S. Khene, E. Antunes, T. Nyokong, N. Torto, Z.R. Tshentu  
The development of catalytic oxovanadium(IV)-containing microspheres for the oxidation of various organosulfur compounds  
Applied Catalysis, A: General (2013), 462-463, 157-167.  
<http://dx.doi.org/10.1016/j.apcata.2013.05.004>  
DOI:10.1016/j.apcata.2013.05.004

48. A.I. Okewole, E. Antunes, T. Nyokong, Z.R. Tshentu  
The development of novel nickel selective amine extractants: 2,2'-Pyridylimidazole

functionalised chelating resin.

Minerals Engineering 54 (2013) 88–93

<http://dx.doi.org/10.1016/j.mineng.2013.04.019>

DOI: 10.1016/j.mineng.2013.04.019

49. Modisha, Phillimon; Nyokong, Tebello; Antunes, Edith

Photodegradation of Orange G using zinc octacarboxyphthalocyanine supported on Fe<sub>3</sub>O<sub>4</sub> nanoparticles.

Journal of Molecular Catalysis A: Chemical (2013), 380, 131-138.

<http://dx.doi.org/10.1016/j.molcata.2013.09.030>

DOI:10.1016/j.molcata.2013.09.030

50. R.C. George, G.O. Egharevba, T. Nyokong

Absorbance and fluorescence studies on porphyrin nanostructures (pnr) as light harvesters in dye sensitized solar cells

<http://www.ajol.info/index.php/ij/article/view/131579>

Ife Journal of Science 15 (2013) 455-462

51. Adegoke, Oluwasesan and Nyokong, Tebello

Unsymmetrically Substituted Nickel Triazatetra-Benzcorrole and Phthalocyanine Complexes: Conjugation to Quantum Dots and Applications as Fluorescent "Turn ON" Sensors

Journal of Fluorescence, 24(2) (2013) 1-11

<http://link.springer.com/article/10.1007/s10895-013-1317-4>

10.1007/s10895-013-1317-4

52. Ogbodu, O. and Nyokong, T.

Effects of number of ring substituents on the physicochemical properties of zinc aminophenoxy phthalocyanine-single walled carbon nanotube conjugate.

Journal of Photochemistry and Photobiology A: Chemistry 274 (2013) 83-90

<http://dx.doi.org/10.1016/j.jphotochem.2013.09.015>