

2017 Publications

1. Li, Minzhi; Niu, Yingjie; Zhu, Weihua; Mack, John; Fomo, Gertrude; Nyokong, Tebello; Liang, Xu

A2B type copper(III)corroles containing zero-to-five fluorine atoms: Synthesis, electronic structure and facile modulation of electrocatalyzed hydrogen evolution

Dyes and Pigments (2017), 137, 523-531.

DOI:10.1016/j.dyepig.2016.10.044

<http://dx.doi.org/10.1016/j.dyepig.2016.10.044>

2. Watkins, Zane; Uddin, Imran; Britton, Jonathan; Nyokong, Tebello

Characterization of conjugates of NaYF₄:Yb,Er,Gd upconversion nanoparticle with aluminum phthalocyanines

Journal of Molecular Structure (2017), 1130, 128-137.

DOI:10.1016/j.molstruc.2016.10.011

<http://dx.doi.org/10.1016/j.molstruc.2016.10.011>

3. Osifeko, Olawale L.; Nyokong, Tebello

Effects of symmetry and the number of positive charges on the photocatalytic activity of indium phthalocyanines when embedded in electrospun fibers

Inorganica Chimica Acta (2017), 458, 50-57.

DOI:10.1016/j.ica.2016.12.025

<http://dx.doi.org/10.1016/j.ica.2016.12.025>

4. Achadu, Ojodomo J.; Managa, Muthumuni; Nyokong, Tebello

Fluorescence behaviour of supramolecular hybrids containing graphene quantum dots and pyrene- derivatized phthalocyanines and porphyrins

Journal of Photochemistry and Photobiology, A: Chemistry (2017), 333, 174-185.

DOI:10.1016/j.jphotochem.2016.10.029

<http://dx.doi.org/10.1016/j.jphotochem.2016.10.029>

5. Achadu, Ojodomo J.; Nyokong, Tebello

Graphene quantum dots coordinated to mercaptopyrindine-substituted phthalocyanines: Characterization and application as fluorescence "turn ON" nanoprobe

Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy (2017), 174, 339-347.

DOI:10.1016/j.saa.2016.11.043

<http://dx.doi.org/10.1016/j.saa.2016.11.043>

6. Achadu, Ojodomo J.; Nyokong, Tebello

Graphene quantum dots decorated with maleimide and zinc tetramaleimido-phthalocyanine: Application in the design of "OFF-ON" fluorescence sensors for biothiols

Talanta (2017), 166, 15-26.

DOI:10.1016/j.talanta.2017.01.031

<http://www.sciencedirect.com/science/article/pii/S0039914017301315>

7. Oluwole, David O.; Prinsloo, Earl; Nyokong, Tebello

Photophysical behavior and photodynamic therapy activity of conjugates of zinc monocarboxyphenoxy phthalocyanine with human serum albumin and chitosan

Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy (2017), 173, 292-300.

DOI:10.1016/j.saa.2016.09.032

<http://dx.doi.org/10.1016/j.saa.2016.09.032>

8. Adegoke, Oluwasesan; Nyokong, Tebello; Forbes, Patricia B. C.

Photophysical properties of a series of alloyed and non-alloyed water-soluble L-cysteine-capped core quantum dots

Journal of Alloys and Compounds (2017), 695, 1354-1361.

DOI:10.1016/j.jallcom.2016.10.276

<http://dx.doi.org/10.1016/j.jallcom.2016.10.276>

9. Managa, Muthumuni; Britton, Jonathan; Amuhaya, Edith K.; Nyokong, Tebello
Photophysical properties of GaCl 5,10,15,20-tetra(1-pyrenyl)porphyrinato incorporated into Pluronic F127 micelle

Journal of Luminescence (2017), 185, 34-41.

DOI:10.1016/j.jlumin.2016.12.043

<http://dx.doi.org/10.1016/j.jlumin.2016.12.043>

10. Oluwole, David O.; Nyokong, Tebello

Photophysicochemical behavior of metallophthalocyanines when doped onto silica nanoparticles

Dyes and Pigments (2017), 136, 262-272.

DOI:10.1016/j.dyepig.2016.08.053

<http://dx.doi.org/10.1016/j.dyepig.2016.08.053>

11. Nwaji, Njemuwa; Oluwole, David O.; Mack, John; Louzada, Marcel; Khene, Samson; Britton, Jonathan; Nyokong, Tebello

Improved nonlinear optical behaviour of ball type indium(III) phthalocyanine linked to glutathione capped nanoparticles

Dyes and Pigments (2017), 140, 417-430

DOI:10.1016/j.dyepig.2017.01.066

<http://dx.doi.org/10.1016/j.dyepig.2017.01.066>

12. Achadu, Ojodomo J.; Nyokong, Tebello

Application of graphene quantum dots functionalized with thymine and thymine-appended zinc phthalocyanine as novel photoluminescent nanoprobe

New Journal of Chemistry (2017), 41, 1447-1458

DOI:10.1039/C6NJ03285K

<http://pubs.rsc.org/en/content/articlehtml/2017/nj/c6nj03285k>

13. Ramirez-Garcia, Gonzalo; Oluwole, David O.; Nxele, Siphesihle Robin; d'Orlye, Fanny; Nyokong, Tebello; Bedioui, Fethi; Varenne, Anne

Characterization of phthalocyanine functionalized quantum dots by dynamic light scattering, laser Doppler, and capillary electrophoresis

Analytical and Bioanalytical Chemistry (2017), 409, 1707-1715

DOI:10.1007/s00216-016-0120-x

<http://link.springer.com/article/10.1007/s00216-016-0120-x>

14. Martynov, Alexander G.; Mack, John; Ngoy, Bokolombe P.; Nyokong, Tebello; Gorbunova, Yulia G.; Tsivadze, Aslan Yu.

Electronic structure and NH-tautomerism of a novel metal-free phenanthroline-annelated phthalocyanine

Dyes and Pigments (2017) 140, 469–479

<http://dx.doi.org/10.1016/j.dyepig.2017.01.072>

15. David O. Oluwole, Alexey V. Yagodin, Nhlakanipho C. Mkhize, Kutloano E. Sekhosana, Dr. Alexander G. Martynov, Prof. Yulia G. Gorbunova, Prof. Aslan Yu. Tsivadze and Prof. Tebello Nyokong

First Example of Nonlinear Optical Materials Based on Nanoconjugates of Sandwich

Phthalocyanines with Quantum Dots
Chemistry – A European Journal (2017) 23 2820-2830
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<http://onlinelibrary.wiley.com/doi/10.1002/chem.201604401/full>

16. Bankole, Owolabi M.; Nyokong, Tebello
Azide-derivatized gold nanosphere "clicked" to indium and zinc phthalocyanines for improved nonlinear optical limiting
Journal of Molecular Structure (2017), 1136, 309-320 DOI:10.1016/j.molstruc.2017.01.088
<http://dx.doi.org/10.1016/j.molstruc.2017.01.088>

17. Shumba, Munyaradzi; Centane, Sixolile; Chindeka, Francis; Nyokong, Tebello
Nanocomposites of sulphur-nitrogen co-doped graphene oxide nanosheets and cobalt mono carboxyphenoxy phthalocyanines for facile electrocatalysis
Journal of Electroanalytical Chemistry (2017), 791, 36-48 DOI:10.1016/j.jelechem.2017.03.006
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Nonlinear Interactions of Zinc Phthalocyanine-Graphene Quantum Dots Nanocomposites: Investigation of Effects of Surface Functionalization with Heteroatoms
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Synthesis, photophysical and nonlinear optical properties of a series of ball-type phthalocyanines in solution and thin films
New Journal of Chemistry (2017), 41, 2020-2028
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20. Managa, Muthumuni; Ngoy, Bokolombe Pitchou; Nyokong, Tebello
The photophysical studies of Pluronic F127/P123 micelle mixture system loaded with metal free and Zn 5,10,15,20-tetrakis[4-(benzyloxy) phenyl]porphyrins
Journal of Photochemistry and Photobiology, A: Chemistry (2017), 339, 49-58
DOI:10.1016/j.jphotochem.2017.02.018
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21. Njemuwa Nwaji, Owolabi M. Bankole, Jonathan Britton and Tebello Nyokong
Photophysical and nonlinear optical study of benzothiazole substituted phthalocyanines in solution and thin films
Journal of Porphyrins and Phthalocyanines (2017), 21, 263-272
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22. R. George S. D'Souza, M. Durmu?, T. Nyokong
Photolytic changes in the morphology of porphyrin-phthalocyanine nanostructures (P-PcNs) in the presence of platinum and gold salts
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23. Munyaradzi Shumba and Tebello Nyokong
Electrocatalytic application for gold nanoparticles decorated sulphur-nitrogen co-doped

graphene oxide nanosheets and nanosized cobalt tetra aminophenoxy phthalocyanine conjugates.

Electrochimica Acta 236 (2017) 212-220

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Synthesis and Electronic Structure of A2B Type Halogen Atoms Substituted H3-Triarylcorroles
Chinese Journal of Structural Chemistry 36 (3) (2017) 367-380

DOI:

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25. Siphesihle Robin Nxele ; Philani Mashazi and Tebello Nyokong

Surface functionalization of glassy carbon electrodes via adsorption, electrografting and click chemistry using quantum dots and alkynyl substituted phthalocyanines: a brief review
Proc. SPIE 10036, Fourth Conference on Sensors, MEMS, and Electro-Optic Systems, 100360D (February 3, 2017); doi:10.1117/12.2245687;

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Improved photocatalytic degradation of Orange G using hybrid nanofibers

Journal of Nanoparticle Research (2017), 19:158, 1-11

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<http://link.springer.com/article/10.1007%2Fs11051-017-3853-3>

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Nyokong, Tebello; Liang, Xu

Halogen substituted A2B type Co(III)triarylcorroles: Synthesis, electronic structure and two step modulation of electrocatalyzed hydrogen evolution reactions

Dyes and Pigments (2017), 142, 416-428. DOI:10.1016/j.dyepig.2017.02.049

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Kobayashi, Nagao; Liang, Xu

Flexible Metal-Porphyrin Dimers (M=MnIII, CoII, NiII, CuII): Synthesis, Spectroscopy, Electrochemistry, Spectroelectrochemistry, and Theoretical Calculations

ChemPlusChem (2017), 82, 598-606

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29. Liang, Xu; Niu, Yingjie; Zhang, Qianchong; Mack, John; Yi, Xiaoyi; Hlatshwayo, Zweli;
Nyokong, Tebello; Li, Minzhi; Zhu, Weihua

Cu(III)triarylcorroles with asymmetric push-pull meso-substitutions: tunable molecular electrochemically catalyzed hydrogen evolution

Dalton Transactions (2017), 46, 6912-6920.

DOI:10.1039/C7DT00716G

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Graphene quantum dots anchored onto mercaptopyrindine-substituted zinc phthalocyanine-Au@Ag nanoparticle hybrid: Application as fluorescence "off-on-off" sensor for Hg²⁺ and biothiols
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Improving singlet oxygen generating abilities of phthalocyanines: aluminum tetrasulfonated phthalocyanine in the presence of graphene quantum dots and folic acid
Journal of Coordination Chemistry (2017), 70(9), 1601-1616.
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Nonlinear optical dynamics of benzothiazole derivatized phthalocyanines in solution, thin films and when conjugated to nanoparticles
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34. Dube, Edith; Oluwole, David O.; Nyokong, Tebello
Photophysicochemical behaviour of anionic indium phthalocyanine when grafted onto Ag_xAu_y and porous silica nanoparticles
Journal of Luminescence (2017), 190, 353-363. DOI:10.1016/j.jlumin.2017.05.071
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Aza boron-pyridyl-isoindoline analogues: synthesis and photophysical properties
New Journal of Chemistry (2017), 41, 5802-5807
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Electrode Modification Through Click Chemistry using Ni and Co Alkyne Phthalocyanines for Electrocatalytic Detection of Hydrazine
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41. Xu Liang; Tingting Huang; Minzhi Li; John Mack; Martijn Wildervanck; Tebello Nyokong and Weihua Zhu
Highly Efficient C Cl Bond Cleavage and Unprecedented C C Bond Cleavage of Environmentally Toxic DDT through Molecular Electrochemical Catalysis
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Effects of Substituents on the Electrocatalytic Activity of Cobalt Phthalocyanines when Conjugated to Graphene Quantum Dots
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Optical limiting properties of 2,6-dibromo-3,5- distyrylBODIPY dyes at 532 nm
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Exploiting Click Chemistry for the Covalent Immobilization of Tetra (4-Propargyloxyphenoxy)

Metallophthalocyanines onto Phenylazide-Grafted Gold Surfaces

Electrochimica Acta (2017), 254, 89-100

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In situ one-pot synthesis of graphitic carbon nitride quantum dots and its 2,2,6,6-tetramethyl(piperidin-1-yl)oxyl derivatives as fluorescent nanosensors for ascorbic acid

Analytica Chimica Acta (2017), 991, 113-126

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Investigation of photophysicochemical properties of zinc phthalocyanines conjugated to metallic nanoparticles

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Optical Limiting Properties of 3,5-Dithienylenevinylene BODIPY Dyes at 532 nm

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Photophysical studies of meso-tetrakis(4-nitrophenyl) and meso-tetrakis(4-sulfophenyl) gallium porphyrins loaded into Pluronic F127 polymeric micelles

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Singly and doubly N-confused calix[4]phyrin organoplatinum(II) complexes as near-IR triplet sensitizers

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Solvent Effect on the Third-Order Nonlinear Optical Properties of - and -Tert-butyl Phenoxy-Substituted Tin(IV) Chloride Phthalocyanines

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Graphene quantum dot-phthalocyanine polystyrene conjugate embedded in asymmetric polymer membranes for photocatalytic oxidation of 4-chlorophenol

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Push–pull type manganese(III)corroles: Synthesis, electronic structures and tunable interactions with ctDNA

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