Philani Mashazi

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60 papers	852 citations	16 h-index	27 g-index
62 ext. papers	1,021 ext. citations	5 avg, IF	4.7 L-index

#	Paper	IF	Citations
60	Tetracarboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for H2O2 and fabrication of glucose biosensor. *Electrochimica Acta*, **2006**, 52, 177-186	6.7	98
59	Selective adsorption of PVP on the surface of silver nanoparticles: A molecular dynamics study. *Journal of Molecular Structure*, **2011**, 1004, 131-137	3.4	70
58	Nanomagnet-Silica Nanoparticles Decorated with Au@Pd for Enhanced Peroxidase-Like Activity and Colorimetric Glucose Sensing. *ACS Applied Materials & Interfaces*, **2020**, 12, 1973-1987	9.5	55
57	Surface chemistry and electrocatalytic behaviour of tetra-carboxy substituted iron, cobalt and manganese phthalocyanine monolayers on gold electrode. *Electrochimica Acta*, **2007**, 53, 1858-1869	6.7	50
56	The effects of carbon nanotubes on the electrocatalysis of hydrogen peroxide by metallo-phthalocyanines. *Talanta*, **2011**, 85, 2202-11	6.2	42
55	Physicochemical and antimicrobial photodynamic chemotherapy of unsymmetrical indium phthalocyanines alone or in the presence of magnetic nanoparticles. *New Journal of Chemistry*, **2016**, 40, 2710-2721	3.6	39
54	Electrode Modification Using Alkynyl Substituted Fe(II) Phthalocyanine via Electrografting and Click Chemistry for Electrocatalysis. *Electroanalysis*, **2015**, 27, 2468-2478	3	33
53	Applications of polymerized metal tetra-amino phthalocyanines towards hydrogen peroxide detection. *Journal of Porphyrins and Phthalocyanines*, **2010**, 14, 252-263	1.8	32
52	Critical assessment of the Quartz Crystal Microbalance with Dissipation as an analytical tool for biosensor development and fundamental studies: Metallophthalocyanine-glucose oxidase biocomposite sensors. *Biosensors and Bioelectronics*, **2007**, 23, 95-101	11.8	32
51	Synthesis of Off-Stoichiometric CoS Nanoplates from a Molecular Precursor for Efficient H2/O2 Evolution and Supercapacitance. *ChemElectroChem*, **2019**, 6, 2560-2569	4.3	29
50	Self-assembled monolayers (SAMs) of cobalt tetracarboxylic acidchloride phthalocyanine covalently attached onto a preformed mercaptoethanol SAM: A novel method. *Electrochimica Acta*, **2006**, 51, 3489-3494	6.7	27
49	Electrocatalytic activity of bimetallic Au-Pd nanoparticles in the presence of cobalt tetraaminophthalocyanine. *Journal of Colloid and Interface Science*, **2015**, 440, 151-61	9.3	21
48	Electrochemical impedimetric immunosensor for the detection of measles-specific IgG antibodies after measles infections. *Biosensors and Bioelectronics*, **2013**, 49, 32-8	11.8	20
47	Probing electrochemical and electrocatalytic properties of cobalt(II) and manganese(III) octakis(hexylthio)phthalocyanine as self-assembled monolayers. *Journal of Porphyrins and Phthalocyanines*, **2010**, 14, 932-947	1.8	19
46	Synthesis, characterization of copper oxide-gold nanoalloys and their peroxidase-like activity towards colorimetric detection of hydrogen peroxide and glucose. *Materials Science and Engineering C*, **2019**, 96, 814-823	8.3	19
45	Electrocatalytic studies of covalently immobilized metal tetra-amino phthalocyanines onto derivatized screen-printed gold electrodes. *Mikrochimica Acta*, **2010**, 171, 321-332	5.8	18
44	Synthesis and singlet oxygen production by a phthalocyanine when embedded in asymmetric polymer membranes. *Polymer*, **2016**, 105, 203-213	3.9	16

43	Synthesis and photophysical properties of nanocomposites of aluminum tetrasulfonated phthalocyanine covalently linked to glutathione capped CdTe/CdS/ZnS quantum dots. *Synthetic Metals*, **2015**, 205, 212-221	3.6	15
42	Metallophthalocyanines and metalloporphyrins as electrocatalysts: a case of hydrogen peroxide and glucose detection. *Journal of Porphyrins and Phthalocyanines*, **2012**, 16, 741-753	1.8	15
41	Fluorescence properties of alloyed ZnSeS quantum dots overcoated with ZnTe and ZnTe/ZnS shells. *Optical Materials*, **2016**, 54, 104-110	3.3	14
40	Electrocatalytic behaviour of surface confined pentanethio cobalt (II) binuclear phthalocyanines towards the oxidation of 4-chlorophenol. *Applied Surface Science*, **2017**, 425, 702-712	6.7	13
39	Exploiting Click Chemistry for the Covalent Immobilization of Tetra (4-Propargyloxyphenoxy) Metallophthalocyanines onto Phenylazide-Grafted Gold Surfaces. *Electrochimica Acta*, **2017**, 254, 89-100	6.7	12
38	Platinum Nanoparticles Supported on Carbon Nanodots as Anode Catalysts for Direct Alcohol Fuel Cells. *International Journal of Electrochemical Science*, **2017**, 6365-6378	2.2	11
37	Facile deposition of gold nanoparticle thin films on semi-permeable cellulose substrate. *Materials Letters*, **2012**, 88, 132-135	3.3	11
36	Effects of differently shaped silver nanoparticles on the photophysics of pyridylsulfanyl-substituted phthalocyanines. *Polyhedron*, **2015**, 99, 112-121	2.7	10
35	Bioelectrocatalysis and surface analysis of gold coated with nickel oxide/hydroxide and glucose oxidase towards detection of glucose. *Colloids and Surfaces B: Biointerfaces*, **2020**, 190, 110981	6	8
34	Stable thin films of human P53 antigen on gold surface for the detection of tumour associated anti-P53 autoantibodies. *Electrochimica Acta*, **2020**, 331, 135272	6.7	8
33	The effect of the cobalt and manganese central metal ions on the nonlinear optical properties of tetra(4-propargyloxyphenoxy)phthalocyanines. *New Journal of Chemistry*, **2018**, 42, 9857-9864	3.6	7
32	Characterization of electrodes modified by one pot or step by step electro-click reaction and axial ligation of iron tetracarboxyphthalocyanine. *Electrochimica Acta*, **2014**, 145, 237-244	6.7	7
31	Iodine-Doped Cobalt Phthalocyanine Supported on Multiwalled Carbon Nanotubes for Electrocatalysis of Oxygen Reduction Reaction. *Electroanalysis*, **2015**, 27, 1176-1187	3	7
30	Covalent attachment of cobalt (II) tetra-(3-carboxyphenoxy) phthalocyanine onto pre-grafted gold electrode for the determination of catecholamine neurotransmitters. *Electrochimica Acta*, **2020**, 360, 137015	6.7	7
29	Nanohybrid electrocatalyst based on cobalt phthalocyanine-carbon nanotube-reduced graphene oxide for ultrasensitive detection of glucose in human saliva. *Sensors and Actuators B: Chemical*, **2021**, 348, 130723	8.5	7
28	Electrode modification using nanocomposites of electropolymerised cobalt phthalocyanines supported on multiwalled carbon nanotubes. *Journal of Solid State Electrochemistry*, **2016**, 20, 1075-1086	2.6	6
27	Electrocatalytic behavior of single walled carbon nanotubes with alkylthio-substituted cobalt binuclear phthalocyanines towards oxidation of 4-chlorophenols. *Journal of Porphyrins and Phthalocyanines*, **2019**, 23, 142-153	1.8	5
26	Morphological influence of deposition routes on lead sulfide thin films. *Inorganica Chimica Acta*, **2019**, 498, 119116	2.7	5

25	Unique flexible silver dendrites thin films fabricated on cellulose dialysis cassettes. *Journal of Materials Science*, **2013**, 48, 6418-6425	4.3	5
24	Synthesis, density functional theory, molecular dynamics and electrochemical studies of 3-thiopheneacetic acid-capped gold nanoparticles. *Journal of Molecular Structure*, **2011**, 1006, 494-501	3.4	5
23	Fabrication of dye-sensitized solar cells based on push-pull asymmetrical substituted zinc and copper phthalocyanines and reduced graphene oxide nanosheets. *Journal of Photochemistry and Photobiology A: Chemistry*, **2020**, 399, 112612	4.7	5
22	Ultrasensitive detection of anti-p53 autoantibodies based on nanomagnetic capture and separation with fluorescent sensing nanobioprobe for signal amplification. *Biosensors and Bioelectronics*, **2020**, 170, 112640	11.8	5
21	Visible light responsive TiO2 - graphene oxide nanosheets - Zn phthalocyanine ternary heterojunction assisted photoelectrocatalytic degradation of Orange G. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 414, 113291	4.7	5
20	Photophysical properties of zinc phthalocyanine-uridine single walled carbon nanotube--conjugates. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 149, 231-9	4.4	4
19	Turn on fluorescence enhancement of Zn octacarboxyphthaloyanine-graphene oxide conjugates by hydrogen peroxide. *Journal of Luminescence*, **2016**, 170, 317-324	3.8	4
18	Computational and experimental evaluation of selective substitution of thiolated coumarin derivatives on gold nanoparticles: Surface enhancing Raman scattering and electrochemical studies. *Applied Surface Science*, **2017**, 396, 695-704	6.7	4
17	Electrografting of 4-Carboxybenzenediazonium on Glassy Carbon Electrode: The Effect of Concentration on the Formation of Mono and Multilayers. *Molecules*, **2020**, 25,	4.8	4
16	Design and evaluation of an electrochemical immunosensor for measles serodiagnosis using measles-specific Immunoglobulin G antibodies. *Talanta*, **2013**, 115, 694-701	6.2	3
15	Tetra (4-propargyloxyphenoxy)phthalocyanines: Facile synthesis, fluorescence and thermal properties. *Polyhedron*, **2017**, 134, 263-274	2.7	3
14	Optimizing phthalocyanine based dye-sensitized solar cells: The role of reduced graphene oxide. *Synthetic Metals*, **2018**, 246, 236-245	3.6	3
13	Kirigami paper-based colorimetric immunosensor integrating smartphone readout for determination of humoral autoantibody immune response. *Microchemical Journal*, **2022**, 178, 107427	4.8	3
12	Immunoassay detection of tumor-associated autoantibodies using protein G bioconjugated to nanomagnet-silica decorated with Au@Pd nanoparticles. *Talanta*, **2021**, 226, 122127	6.2	2
11	Solventless synthesis of nanospinel Ni Co FeO (0 1) solid solutions for efficient electrochemical water splitting and supercapacitance.. *RSC Advances*, **2021**, 11, 31002-31014	3.7	2
10	In-sera selectivity detection of catecholamine neurotransmitters using covalent composite of cobalt phthalocyanine and aminated graphene quantum dots. *Microchemical Journal*, **2022**, 180, 107605	4.8	2
9	Surface functionalization of glassy carbon electrodes via adsorption, electrografting and click chemistry using quantum dots and alkynyl substituted phthalocyanines: a brief review **2017**,		1
8	Electrografting of isophthalic acid monolayer and covalent attachment of antibody onto carbon surfaces: Construction of capacitive biosensor for methotrexate detection. *Electrochimica Acta*, **2021**, 398, 139360	6.7	1

List of Publications

7	Oriented Antibody Covalent Immobilization for Label-Free Impedimetric Detection of C-Reactive Protein Direct and Sandwich Immunoassays. *Frontiers in Chemistry*, **2021**, 9, 587142	5	1
6	Low temperature scalable synthetic approach enabling high bifunctional electrocatalytic performance of NiCoS and CuCoS thiospinels.. *RSC Advances*, **2021**, 11, 31533-31546	3.7	1
5	Ultrasensitive detection of prostate-specific antigen using glucose-encapsulated nanoliposomes anti-PSA polyclonal antibody as detection nanobioprobes.. *Talanta*, **2022**, 245, 123483	6.2	1
4	Effective ROS generation and morphological effect of copper oxide nanoparticles as catalysts. *Journal of Nanoparticle Research*, **2021**, 23, 1	2.3	0
3	Bimetallic gold and palladium nanoparticles supported on copper oxide nanorods for enhanced HO catalytic reduction and sensing.. *RSC Advances*, **2021**, 11, 28818-28828	3.7	0
2	Novel covalent immobilization of cobalt (II) octa acyl chloride phthalocyanines onto phenylethylamine pre-grafted gold via spontaneous amidation. *Electrochimica Acta*, **2022**, 140550	6.7	0
1	Electrocatalytic behavior of single walled carbon nanotubes with alkylthio-substituted cobalt binuclear phthalocyanines towards oxidation of 4-chlorophenols **2021**, 1177-1188		