

# Philani Mashazi

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,180  
citations

430874

18  
h-index

434195

31  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomagnet Bioconjugates with anti-CRP Polyclonal Antibodies as Nanobioprobes for Enhanced Impedimetric Detection of CRP. <i>Electroanalysis</i> , 2023, 35, .	2.9	1
2	Kirigami paper-based colorimetric immunosensor integrating smartphone readout for determination of humoral autoantibody immune response. <i>Microchemical Journal</i> , 2022, 178, 107427.	4.5	8
3	Ultrasensitive detection of prostate-specific antigen using glucose-encapsulated nanoliposomes anti-PSA polyclonal antibody as detection nanobioprobes. <i>Talanta</i> , 2022, 245, 123483.	5.5	1
4	Novel covalent immobilization of cobalt (II) octa acyl chloride phthalocyanines onto phenylethylamine pre-grafted gold via spontaneous amidation. <i>Electrochimica Acta</i> , 2022, 422, 140550.	5.2	2
5	In-sera selectivity detection of catecholamine neurotransmitters using covalent composite of cobalt phthalocyanine and aminated graphene quantum dots. <i>Microchemical Journal</i> , 2022, 180, 107605.	4.5	8
6	Application of gold and palladium nanoparticles supported on polymelamine microspheres in the oxidation of 1-phenylethanol and some other phenyl substituted alcohols. <i>Molecular Catalysis</i> , 2022, 528, 112456.	2.0	2
7	Bimetallic gold and palladium nanoparticles supported on copper oxide nanorods for enhanced $H_2O_2$ catalytic reduction and sensing. <i>RSC Advances</i> , 2021, 11, 28818-28828.	3.6	6
8	Solventless synthesis of nanospinel $Ni_2Co_2Fe_2O_4$ (0% $\rightarrow$ 1%) solid solutions for efficient electrochemical water splitting and supercapacitance. <i>RSC Advances</i> , 2021, 11, 31002-31014.	3.6	17
9	Immunoassay detection of tumor-associated autoantibodies using protein G bioconjugated to nanomagnet-silica decorated with Au@Pd nanoparticles. <i>Talanta</i> , 2021, 226, 122127.	5.5	9
10	Visible light responsive $TiO_2$ - graphene oxide nanosheets - Zn phthalocyanine ternary heterojunction assisted photoelectrocatalytic degradation of Orange G. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 414, 113291.	3.9	12
11	Oriented Antibody Covalent Immobilization for Label-Free Impedimetric Detection of C-Reactive Protein via Direct and Sandwich Immunoassays. <i>Frontiers in Chemistry</i> , 2021, 9, 587142.	3.6	10
12	Nanohybrid electrocatalyst based on cobalt phthalocyanine-carbon nanotube-reduced graphene oxide for ultrasensitive detection of glucose in human saliva. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130723.	7.8	32
13	Low temperature scalable synthetic approach enabling high bifunctional electrocatalytic performance of $NiCo_2S_4$ and $CuCo_2S_4$ thiospinels. <i>RSC Advances</i> , 2021, 11, 31533-31546.	3.6	6
14	Electrocatalytic behavior of single walled carbon nanotubes with alkylthio-substituted cobalt binuclear phthalocyanines towards oxidation of 4-chlorophenols. , 2021, , 1177-1188.		0
15	Effective ROS generation and morphological effect of copper oxide nanoparticles as catalysts. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	2
16	Electrografting of isophthalic acid monolayer and covalent attachment of antibody onto carbon surfaces: Construction of capacitive biosensor for methotrexate detection. <i>Electrochimica Acta</i> , 2021, 398, 139360.	5.2	8
17	Stable thin films of human P53 antigen on gold surface for the detection of tumour associated anti-P53 autoantibodies. <i>Electrochimica Acta</i> , 2020, 331, 135272.	5.2	17
18	Nanomagnet-Silica Nanoparticles Decorated with Au@Pd for Enhanced Peroxidase-Like Activity and Colorimetric Glucose Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 1973-1987.	8.0	95

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19	Ultrasensitive detection of anti-p53 autoantibodies based on nanomagnetic capture and separation with fluorescent sensing nanobioprobe for signal amplification. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112640.	10.1	15
20	Electrografting of 4-Carboxybenzenediazonium on Glassy Carbon Electrode: The Effect of Concentration on the Formation of Mono and Multilayers. <i>Molecules</i> , 2020, 25, 4575.	3.8	16
21	Covalent attachment of cobalt (II) tetra-(3-carboxyphenoxy) phthalocyanine onto pre-grafted gold electrode for the determination of catecholamine neurotransmitters. <i>Electrochimica Acta</i> , 2020, 360, 137015.	5.2	8
22	Bioelectrocatalysis and surface analysis of gold coated with nickel oxide/hydroxide and glucose oxidase towards detection of glucose. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110981.	5.0	15
23	Fabrication of dye-sensitized solar cells based on push-pull asymmetrical substituted zinc and copper phthalocyanines and reduced graphene oxide nanosheets. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 399, 112612.	3.9	13
24	Morphological influence of deposition routes on lead sulfide thin films. <i>Inorganica Chimica Acta</i> , 2019, 498, 119116.	2.4	7
25	Synthesis of Off-stoichiometric CoS Nanoplates from a Molecular Precursor for Efficient H <sub>2</sub> /O <sub>2</sub> Evolution and Supercapacitance. <i>ChemElectroChem</i> , 2019, 6, 2560-2569.	3.4	40
26	Electrocatalytic behavior of single walled carbon nanotubes with alkylthio-substituted cobalt binuclear phthalocyanines towards oxidation of 4-chlorophenols. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 142-153.	0.8	5
27	Synthesis, characterization of copper oxide-gold nanoalloys and their peroxidase-like activity towards colorimetric detection of hydrogen peroxide and glucose. <i>Materials Science and Engineering C</i> , 2019, 96, 814-823.	7.3	51
28	Optimizing phthalocyanine based dye-sensitized solar cells: The role of reduced graphene oxide. <i>Synthetic Metals</i> , 2018, 246, 236-245.	3.9	7
29	The effect of the cobalt and manganese central metal ions on the nonlinear optical properties of tetra(4-propargyloxyphenoxy)phthalocyanines. <i>New Journal of Chemistry</i> , 2018, 42, 9857-9864.	2.8	10
30	Surface functionalization of glassy carbon electrodes via adsorption, electrografting and click chemistry using quantum dots and alkynyl substituted phthalocyanines: a brief review. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
31	Exploiting Click Chemistry for the Covalent Immobilization of Tetra (4-Propargyloxyphenoxy) Metallophthalocyanines onto Phenylazide-Grafted Gold Surfaces. <i>Electrochimica Acta</i> , 2017, 254, 89-100.	5.2	16
32	Electrocatalytic behaviour of surface confined pentanethio cobalt (II) binuclear phthalocyanines towards the oxidation of 4-chlorophenol. <i>Applied Surface Science</i> , 2017, 425, 702-712.	6.1	16
33	Tetra (4-propargyloxyphenoxy)phthalocyanines: Facile synthesis, fluorescence and thermal properties. <i>Polyhedron</i> , 2017, 134, 263-274.	2.2	4
34	Computational and experimental evaluation of selective substitution of thiolated coumarin derivatives on gold nanoparticles: Surface enhancing Raman scattering and electrochemical studies. <i>Applied Surface Science</i> , 2017, 396, 695-704.	6.1	7
35	Platinum Nanoparticles Supported on Carbon Nanodots as Anode Catalysts for Direct Alcohol Fuel Cells. <i>International Journal of Electrochemical Science</i> , 2017, 12, 6365-6378.	1.3	22
36	Synthesis and singlet oxygen production by a phthalocyanine when embedded in asymmetric polymer membranes. <i>Polymer</i> , 2016, 105, 203-213.	3.8	17

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37	“Turn on” fluorescence enhancement of Zn octacarboxyphthaloyanine-graphene oxide conjugates by hydrogen peroxide. <i>Journal of Luminescence</i> , 2016, 170, 317-324.	3.1	5
38	Fluorescence properties of alloyed ZnSeS quantum dots overcoated with ZnTe and ZnTe/ZnS shells. <i>Optical Materials</i> , 2016, 54, 104-110.	3.6	15
39	Physicochemical and antimicrobial photodynamic chemotherapy of unsymmetrical indium phthalocyanines alone or in the presence of magnetic nanoparticles. <i>New Journal of Chemistry</i> , 2016, 40, 2710-2721.	2.8	45
40	Electrode modification using nanocomposites of electropolymerised cobalt phthalocyanines supported on multiwalled carbon nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1075-1086.	2.5	6
41	Iodine-Doped Cobalt Phthalocyanine Supported on Multiwalled Carbon Nanotubes for Electrocatalysis of Oxygen Reduction Reaction. <i>Electroanalysis</i> , 2015, 27, 1176-1187.	2.9	11
42	Electrode Modification Using Alkynyl Substituted Fe(II) Phthalocyanine via Electrografting and Click Chemistry for Electrocatalysis. <i>Electroanalysis</i> , 2015, 27, 2468-2478.	2.9	39
43	Synthesis and photophysical properties of nanocomposites of aluminum tetrasulfonated phthalocyanine covalently linked to glutathione capped CdTe/CdS/ZnS quantum dots. <i>Synthetic Metals</i> , 2015, 205, 212-221.	3.9	15
44	Photophysical properties of zinc phthalocyanine-uridine single walled carbon nanotube conjugates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 231-239.	3.9	4
45	Effects of differently shaped silver nanoparticles on the photophysics of pyridylsulfanyl-substituted phthalocyanines. <i>Polyhedron</i> , 2015, 99, 112-121.	2.2	12
46	Electrocatalytic activity of bimetallic Au-Pd nanoparticles in the presence of cobalt tetraaminophthalocyanine. <i>Journal of Colloid and Interface Science</i> , 2015, 440, 151-161.	9.4	21
47	Characterization of electrodes modified by one pot or step by step electro-click reaction and axial ligation of iron tetracarboxyphthalocyanine. <i>Electrochimica Acta</i> , 2014, 145, 237-244.	5.2	8
48	Unique flexible silver dendrites thin films fabricated on cellulose dialysis cassettes. <i>Journal of Materials Science</i> , 2013, 48, 6418-6425.	3.7	5
49	Design and evaluation of an electrochemical immunosensor for measles serodiagnosis using measles-specific Immunoglobulin G antibodies. <i>Talanta</i> , 2013, 115, 694-701.	5.5	4
50	Electrochemical impedimetric immunosensor for the detection of measles-specific IgG antibodies after measles infections. <i>Biosensors and Bioelectronics</i> , 2013, 49, 32-38.	10.1	26
51	Metallophthalocyanines and metalloporphyrins as electrocatalysts: a case of hydrogen peroxide and glucose detection. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012, 16, 741-753.	0.8	17
52	Facile deposition of gold nanoparticle thin films on semi-permeable cellulose substrate. <i>Materials Letters</i> , 2012, 88, 132-135.	2.6	11
53	The effects of carbon nanotubes on the electrocatalysis of hydrogen peroxide by metallo-phthalocyanines. <i>Talanta</i> , 2011, 85, 2202-2211.	5.5	48
54	Selective adsorption of PVP on the surface of silver nanoparticles: A molecular dynamics study. <i>Journal of Molecular Structure</i> , 2011, 1004, 131-137.	3.6	78

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55	Synthesis, density functional theory, molecular dynamics and electrochemical studies of 3-thiopheneacetic acid-capped gold nanoparticles. <i>Journal of Molecular Structure</i> , 2011, 1006, 494-501.	3.6	8
56	Electrocatalytic studies of covalently immobilized metal tetra-amino phthalocyanines onto derivatized screen-printed gold electrodes. <i>Mikrochimica Acta</i> , 2010, 171, 321-332.	5.0	20
57	Applications of polymerized metal tetra-amino phthalocyanines towards hydrogen peroxide detection. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010, 14, 252-263.	0.8	35
58	Probing electrochemical and electrocatalytic properties of cobalt(II) and manganese(III) octakis(hexylthio)phthalocyanine as self-assembled monolayers. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010, 14, 932-947.	0.8	21
59	Critical assessment of the Quartz Crystal Microbalance with Dissipation as an analytical tool for biosensor development and fundamental studies: Metallophthalocyanine- $\alpha$ -glucose oxidase biocomposite sensors. <i>Biosensors and Bioelectronics</i> , 2007, 23, 95-101.	10.1	34
60	Surface chemistry and electrocatalytic behaviour of tetra-carboxy substituted iron, cobalt and manganese phthalocyanine monolayers on gold electrode. <i>Electrochimica Acta</i> , 2007, 53, 1858-1869.	5.2	55
61	Tetracarboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for H <sub>2</sub> O <sub>2</sub> and fabrication of glucose biosensor. <i>Electrochimica Acta</i> , 2006, 52, 177-186.	5.2	104
62	Self-assembled monolayers (SAMs) of cobalt tetracarboxylic acidchloride phthalocyanine covalently attached onto a preformed mercaptoethanol SAM: A novel method. <i>Electrochimica Acta</i> , 2006, 51, 3489-3494.	5.2	27