

Philani Mashazi

List of Publications by Year in Descending Order

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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	Kirigami paper-based colorimetric immunosensor integrating smartphone readout for determination of humoral autoantibody immune response. <i>Microchemical Journal</i> , 2022 , 178, 107427	4.8	3
59	Ultrasensitive detection of prostate-specific antigen using glucose-encapsulated nanoliposomes anti-PSA polyclonal antibody as detection nanobioprobes.. <i>Talanta</i> , 2022 , 245, 123483	6.2	1
58	Novel covalent immobilization of cobalt (II) octa acyl chloride phthalocyanines onto phenylethylamine pre-grafted gold via spontaneous amidation. <i>Electrochimica Acta</i> , 2022 , 140550	6.7	0
57	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	4.8	2
56	Effective ROS generation and morphological effect of copper oxide nanoparticles as catalysts. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1	2.3	0
55	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	6.7	1
54	Immunoassay detection of tumor-associated autoantibodies using protein G bioconjugated to nanomagnet-silica decorated with Au@Pd nanoparticles. <i>Talanta</i> , 2021 , 226, 122127	6.2	2
53	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	4.7	5
52	Oriented Antibody Covalent Immobilization for Label-Free Impedimetric Detection of C-Reactive Protein Direct and Sandwich Immunoassays. <i>Frontiers in Chemistry</i> , 2021 , 9, 587142	5	1
51	Bimetallic gold and palladium nanoparticles supported on copper oxide nanorods for enhanced HO catalytic reduction and sensing.. <i>RSC Advances</i> , 2021 , 11, 28818-28828	3.7	0
50	Solventless synthesis of nanospinel Ni Co FeO (0 111) solid solutions for efficient electrochemical water splitting and supercapacitance.. <i>RSC Advances</i> , 2021 , 11, 31002-31014	3.7	2
49	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	8.5	7
48	Low temperature scalable synthetic approach enabling high bifunctional electrocatalytic performance of NiCoS and CuCoS thiospinels.. <i>RSC Advances</i> , 2021 , 11, 31533-31546	3.7	1
47	Electrocatalytic behavior of single walled carbon nanotubes with alkylthio-substituted cobalt binuclear phthalocyanines towards oxidation of 4-chlorophenols 2021 , 1177-1188		
46	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	6	8
45	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	4.7	5
44	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	6.7	8

43	Nanomagnet-Silica Nanoparticles Decorated with Au@Pd for Enhanced Peroxidase-Like Activity and Colorimetric Glucose Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1973-1987	9.5	55
42	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	11.8	5
41	Electrografting of 4-Carboxybenzenediazonium on Glassy Carbon Electrode: The Effect of Concentration on the Formation of Mono and Multilayers. <i>Molecules</i> , 2020 , 25,	4.8	4
40	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	6.7	7
39	Synthesis of Off-Stoichiometric CoS Nanoplates from a Molecular Precursor for Efficient H ₂ /O ₂ Evolution and Supercapacitance. <i>ChemElectroChem</i> , 2019 , 6, 2560-2569	4.3	29
38	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	1.8	5
37	Morphological influence of deposition routes on lead sulfide thin films. <i>Inorganica Chimica Acta</i> , 2019 , 498, 119116	2.7	5
36	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	8.3	19
35	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	3.6	7
34	Optimizing phthalocyanine based dye-sensitized solar cells: The role of reduced graphene oxide. <i>Synthetic Metals</i> , 2018 , 246, 236-245	3.6	3
33	Surface functionalization of glassy carbon electrodes via adsorption, electrografting and click chemistry using quantum dots and alkynyl substituted phthalocyanines: a brief review 2017 ,		1
32	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 ^{6.7}	6.7	12
31	Platinum Nanoparticles Supported on Carbon Nanodots as Anode Catalysts for Direct Alcohol Fuel Cells. <i>International Journal of Electrochemical Science</i> , 2017 , 6365-6378	2.2	11
30	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	6.7	13
29	Tetra (4-propargyloxyphenoxy)phthalocyanines: Facile synthesis, fluorescence and thermal properties. <i>Polyhedron</i> , 2017 , 134, 263-274	2.7	3
28	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	6.7	4
27	Electrode modification using nanocomposites of electropolymerised cobalt phthalocyanines supported on multiwalled carbon nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 1075-1086 ^{6.6}	6.6	6
26	Synthesis and singlet oxygen production by a phthalocyanine when embedded in asymmetric polymer membranes. <i>Polymer</i> , 2016 , 105, 203-213	3.9	16

25	Turn on fluorescence enhancement of Zn octacarboxyphthalocyanine-graphene oxide conjugates by hydrogen peroxide. <i>Journal of Luminescence</i> , 2016 , 170, 317-324	3.8	4
24	Fluorescence properties of alloyed ZnSeS quantum dots overcoated with ZnTe and ZnTe/ZnS shells. <i>Optical Materials</i> , 2016 , 54, 104-110	3.3	14
23	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	3.6	39
22	Photophysical properties of zinc phthalocyanine-uridine single walled carbon nanotube-conjugates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 149, 231-9	4.4	4
21	Effects of differently shaped silver nanoparticles on the photophysics of pyridylsulfanyl-substituted phthalocyanines. <i>Polyhedron</i> , 2015 , 99, 112-121	2.7	10
20	Electrocatalytic activity of bimetallic Au-Pd nanoparticles in the presence of cobalt tetraaminophthalocyanine. <i>Journal of Colloid and Interface Science</i> , 2015 , 440, 151-61	9.3	21
19	Iodine-Doped Cobalt Phthalocyanine Supported on Multiwalled Carbon Nanotubes for Electrocatalysis of Oxygen Reduction Reaction. <i>Electroanalysis</i> , 2015 , 27, 1176-1187	3	7
18	Electrode Modification Using Alkynyl Substituted Fe(II) Phthalocyanine via Electrografting and Click Chemistry for Electrocatalysis. <i>Electroanalysis</i> , 2015 , 27, 2468-2478	3	33
17	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	3.6	15
16	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	6.7	7
15	Unique flexible silver dendrites thin films fabricated on cellulose dialysis cassettes. <i>Journal of Materials Science</i> , 2013 , 48, 6418-6425	4.3	5
14	Design and evaluation of an electrochemical immunosensor for measles serodiagnosis using measles-specific Immunoglobulin G antibodies. <i>Talanta</i> , 2013 , 115, 694-701	6.2	3
13	Electrochemical impedimetric immunosensor for the detection of measles-specific IgG antibodies after measles infections. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 32-8	11.8	20
12	Facile deposition of gold nanoparticle thin films on semi-permeable cellulose substrate. <i>Materials Letters</i> , 2012 , 88, 132-135	3.3	11
11	Metallophthalocyanines and metalloporphyrins as electrocatalysts: a case of hydrogen peroxide and glucose detection. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012 , 16, 741-753	1.8	15
10	The effects of carbon nanotubes on the electrocatalysis of hydrogen peroxide by metallo-phthalocyanines. <i>Talanta</i> , 2011 , 85, 2202-11	6.2	42
9	Selective adsorption of PVP on the surface of silver nanoparticles: A molecular dynamics study. <i>Journal of Molecular Structure</i> , 2011 , 1004, 131-137	3.4	70
8	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	3.4	5

LIST OF PUBLICATIONS

7	Applications of polymerized metal tetra-amino phthalocyanines towards hydrogen peroxide detection. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010 , 14, 252-263	1.8	32
6	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	1.8	19
5	Electrocatalytic studies of covalently immobilized metal tetra-amino phthalocyanines onto derivatized screen-printed gold electrodes. <i>Mikrochimica Acta</i> , 2010 , 171, 321-332	5.8	18
4	Critical assessment of the Quartz Crystal Microbalance with Dissipation as an analytical tool for biosensor development and fundamental studies: Metallophthalocyanine-glucose oxidase biocomposite sensors. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 95-101	11.8	32
3	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	6.7	50
2	Tetracarboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for H ₂ O ₂ and fabrication of glucose biosensor. <i>Electrochimica Acta</i> , 2006 , 52, 177-186	6.7	98
1	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	6.7	27