

Patrick Ndungu

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.

110
papers

1,971
citations

24
h-index

39
g-index

116
ext. papers

2,350
ext. citations

4.2
avg, IF

5.41
L-index

#	Paper	IF	Citations
110	Prediction of electronic properties of novel ZnS-ZnO-recycled expanded polystyrene nanocomposites by DFT.. <i>Heliyon</i> , 2022 , 8, e08903	3.6	0
109	pH based supercapacitors: Achieving high capacitance in gold metallized regenerated cellulose amide supercapacitor electrodes by pH gradient. <i>Energy Reports</i> , 2022 , 8, 3415-3423	4.6	0
108	A Novel BiOCl Based Nanocomposite Membrane for Water Desalination. <i>Membranes</i> , 2022 , 12, 505	3.8	0
107	Combustion Characterisation of Bituminous Coal and Pinus Sawdust Blends by Use of Thermo-Gravimetric Analysis. <i>Energies</i> , 2021 , 14, 7547	3.1	2
106	Surface modifications of carbon nanotubes towards tailored electrochemical characteristics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 27923	2.1	1
105	Effects of Ionic Liquid and Biomass Sources on Carbon Nanotube Physical and Electrochemical Properties. <i>Sustainability</i> , 2021 , 13, 2977	3.6	1
104	Hydrothermally treated aluminosilicate clay (HTAC) for remediation of fluoride and pathogens from water: Adsorbent characterization and adsorption modelling. <i>Water Resources and Industry</i> , 2021 , 25, 100144	4.5	7
103	Current Applications of Magnetic Nanomaterials for Extraction of Mycotoxins, Pesticides, and Pharmaceuticals in Food Commodities. <i>Molecules</i> , 2021 , 26,	4.8	5
102	Effect of Inclusion of MOF-Polymer Composite onto a Carbon Foam Material for Hydrogen Storage Application. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 80-88	3.2	4
101	Micellization of a starch-poly(1,4-butylene succinate) nano-hybrid for enhanced energy storage.. <i>RSC Advances</i> , 2021 , 11, 11745-11759	3.7	1
100	Mn-Ni-Co-O Spinel Oxides towards Oxygen Reduction Reaction in Alkaline Medium: Mn _{0.5} Ni _{0.5} Co ₂ O ₄ /C Synergism and Cooperation. <i>Catalysts</i> , 2021 , 11, 1059	4	1
99	Noncovalent Graphene Oxide Functionalized with Ionic Liquid: Theoretical, Isotherm, Kinetics, and Regeneration Studies on the Adsorption of Pharmaceuticals. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4945-4957	3.9	19
98	Hydrogeochemical characteristics of arsenic rich groundwater in Greater Giyani Municipality, Limpopo Province, South Africa. <i>Groundwater for Sustainable Development</i> , 2020 , 10, 100336	6	8
97	Synthesis of Carbon Nanomaterials from Biomass Utilizing Ionic Liquids for Potential Application in Solar Energy Conversion and Storage. <i>Materials</i> , 2020 , 13,	3.5	5
96	Carbon Encapsulated Ternary MnNiCo Oxide Nanoparticles as Electrode Materials for Energy Storage Applications. <i>Electroanalysis</i> , 2020 , 32, 2926-2935	3	6
95	Activated <i>Hordeum vulgare</i> L. dust as carbon paste electrode modifier for the sensitive electrochemical detection of Cd ²⁺ , Pb ²⁺ and Hg ²⁺ ions. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 100, 1429-1445	1.8	2
94	Removal of As(III) from Synthetic Groundwater Using Fe-Mn Bimetal Modified Kaolin Clay: Adsorption Kinetics, Isotherm and Thermodynamics Studies. <i>Environmental Processes</i> , 2019 , 6, 1005-1018 ⁸	2.8	5

93	Synthesis of porous polymer-based metal-organic frameworks monolithic hybrid composite for hydrogen storage application. <i>Journal of Materials Science</i> , 2019 , 54, 7078-7086	4.3	16
92	Ionic liquids and cellulose: Innovative feedstock for synthesis of carbon nanostructured material. <i>Materials Chemistry and Physics</i> , 2019 , 234, 201-209	4.4	6
91	Theoretical and experimental adsorption studies of phenol and crystal violet dye on carbon nanotube functionalized with deep eutectic solvent. <i>Journal of Molecular Liquids</i> , 2019 , 288, 110895	6	36
90	Brief bibliometric analysis of "ionic liquid" applications and its review as a substitute for common adsorbent modifier for the adsorption of organic pollutants. <i>Environmental Research</i> , 2019 , 175, 34-51	7.9	26
89	Ultrasound Assisted Adsorptive Removal of Cr, Cu, Al, Ba, Zn, Ni, Mn, Co and Ti from Seawater Using Fe ₂ O ₃ -SiO ₂ -PAN Nanocomposite: Equilibrium Kinetics. <i>Journal of Marine Science and Engineering</i> , 2019 , 7, 133	2.4	9
88	Physicochemical characteristics of acid mine drainage, simultaneous remediation and use as feedstock for value added products. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103097	6.8	17
87	Evaluation of organochlorinated pesticide (OCP) residues in soil, sediment and water from the Msunduzi River in South Africa. <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	6
86	Evaluation of the adsorptive properties of locally available alumino-silicate clay in As(III) and As(V) remediation from groundwater. <i>Physics and Chemistry of the Earth</i> , 2019 , 112, 28-35	3	3
85	Mechanochemically Activated Aluminosilicate Clay Soils and their Application for Defluoridation and Pathogen Removal from Groundwater. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	10
84	Enhanced As(III) and As(V) Adsorption From Aqueous Solution by a Clay Based Hybrid Sorbent. <i>Frontiers in Chemistry</i> , 2019 , 7, 913	5	13
83	Uptake of As(V) from Groundwater Using Fe-Mn Oxides Modified Kaolin Clay: Physicochemical Characterization and Adsorption Data Modeling. <i>Water (Switzerland)</i> , 2019 , 11, 1245	3	9
82	Chemical Vapour Deposition of MWCNT on Silica Coated FeO and Use of Response Surface Methodology for Optimizing the Extraction of Organophosphorus Pesticides from Water. <i>International Journal of Analytical Chemistry</i> , 2019 , 2019, 4564709	1.4	7
81	Conversion of residue biomass into value added carbon materials: utilisation of sugarcane bagasse and ionic liquids. <i>Journal of Materials Science</i> , 2019 , 54, 12476-12487	4.3	15
80	Target, Suspect and Non-Target Screening of Silylated Derivatives of Polar Compounds Based on Single Ion Monitoring GC-MS. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	10
79	Deep eutectic solvent as an efficient modifier of low-cost adsorbent for the removal of pharmaceuticals and dye. <i>Environmental Research</i> , 2019 , 179, 108837	7.9	14
78	Polymer-Based Shaping Strategy for Zeolite Templated Carbons (ZTC) and Their Metal Organic Framework (MOF) Composites for Improved Hydrogen Storage Properties. <i>Frontiers in Chemistry</i> , 2019 , 7, 864	5	10
77	Performance evaluation of surfactant modified kaolin clay in As(III) and As(V) adsorption from groundwater: adsorption kinetics, isotherms and thermodynamics. <i>Heliyon</i> , 2019 , 5, e02756	3.6	23
76	Synthesis and characterization of deep eutectic solvent functionalized CNT/ZnCo ₂ O ₄ nanostructure: Kinetics, isotherm and regenerative studies on Eosin Y adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102877	6.8	15

75	The physical and electrochemical properties of nitrogen-doped carbon nanotube- and reduced graphene oxide-titania nanocomposites. <i>Materials Chemistry and Physics</i> , 2018 , 213, 102-112	4.4	12
74	Isotherm and kinetic investigations on the adsorption of organophosphorus pesticides on graphene oxide based silica coated magnetic nanoparticles functionalized with 2-phenylethylamine. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 1333-1346	6.8	69
73	Sol-gel synthesis of Mn Ni ₁ Co ₂ O ₄ spinel phase materials: Structural, electronic, and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 78-89	5.7	26
72	Theoretical and experimental adsorption studies of sulfamethoxazole and ketoprofen on synthesized ionic liquids modified CNTs. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 161, 542-552	7	39
71	Quaternized poly(2,6 dimethyl-1,4 phenylene oxide)/polysulfone blend composite membrane doped with ZnO-nanoparticles for alkaline fuel cells. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45953-9	3.9	12
70	Mn substituted Mn Zn CoO oxides synthesized by co-precipitation; effect of doping on the structural, electronic and magnetic properties.. <i>RSC Advances</i> , 2018 , 8, 39837-39848	3.7	7
69	Quaternized poly (2,6 dimethyl-1,4 phenylene oxide)/polysulfone blended anion exchange membrane for alkaline fuel cells application. <i>Materials Today: Proceedings</i> , 2018 , 5, 10496-10504	1.4	2
68	Synthesis and characterization of mesoporous titania using a synthetic (Pluronic P123) and a natural (Gum Arabic) templating agent. <i>Materials Today: Proceedings</i> , 2018 , 5, 10585-10591	1.4	2
67	Synthesis, structural characterization, and magnetic properties of mixed ternary spinel-type Mn-Ni-Co oxides. <i>Materials Today: Proceedings</i> , 2018 , 5, 10488-10495	1.4	0
66	Quantitative analyses of selected polychlorinated biphenyl (PCB) congeners in water, soil, and sediment during winter and spring seasons from Msunduzi River, South Africa. <i>Environmental Monitoring and Assessment</i> , 2018 , 190, 621	3.1	8
65	Recent advances in titanium dioxide/graphene photocatalyst materials as potentials of energy generation. <i>Bulletin of Materials Science</i> , 2018 , 41, 1	1.7	7
64	Quaternized poly (2,6 dimethyl-1,4 phenylene oxide)/Polysulfone anion exchange membrane reinforced with graphene oxide for methanol alkaline fuel cell application. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	12
63	Oxygen-modified multiwalled carbon nanotubes: physicochemical properties and capacitor functionality. <i>International Journal of Energy Research</i> , 2017 , 41, 1182-1201	4.5	13
62	The generation of charge carriers in semi conductors [A theoretical study. <i>Chemical Physics Letters</i> , 2017 , 678, 167-176	2.5	15
61	Simulation from the first principal theory on the effect of supporting silica on graphene and the new composite material. <i>Chemical Physics Letters</i> , 2017 , 680, 69-77	2.5	5
60	The effect of pyridinic- and pyrrolic-nitrogen in nitrogen-doped carbon nanotubes used as support for Pd-catalyzed nitroarene reduction: an experimental and theoretical study. <i>Journal of Materials Science</i> , 2017 , 52, 10751-10765	4.3	15
59	Effect of graphite/sodium nitrate ratio and reaction time on the physicochemical properties of graphene oxide. <i>New Carbon Materials</i> , 2017 , 32, 174-187	4.4	18
58	Synthesis and characterization of Ce _{0.6} Sr _{0.4} Fe _{0.8} Co _{0.2} O ₃ perovskite material: Potential cathode material for low temperature SOFCs. <i>Journal of Rare Earths</i> , 2017 , 35, 389-397	3.7	9

57	Some perspectives on nitrogen-doped carbon nanotube synthesis from acetonitrile and N,N'-dimethylformamide mixtures. <i>Materials Chemistry and Physics</i> , 2017 , 199, 435-453	4.4	5
56	Low temperature synthesis of multiwalled carbon nanotubes and incorporation into an organic solar cell. <i>Journal of Experimental Nanoscience</i> , 2017 , 12, 363-383	1.9	7
55	Physico-Chemical Characterisation of Ce _{0.7} Sr _{0.3} Fe _{0.9} Ir _{0.04} Co _{0.06} O ₃ -((CSFIC) Cathode Material for Application in Low Temperature SOFCs. <i>ECS Transactions</i> , 2017 , 78, 521-532	1	
54	Effect of Surfactants on the Physico-Chemical Characteristics of IrO/Ce _{0.8} Sm _{0.2} O ₂ -Nanocomposite for SOFC Application. <i>ECS Transactions</i> , 2017 , 78, 783-793	1	2
53	Assessment of nonsteroidal anti-inflammatory drugs by ultrasonic-assisted extraction and GC-MS in Mgeni and Msunduzi river sediments, KwaZulu-Natal, South Africa. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 20015-20028	5.1	9
52	Detection and quantification of acidic drug residues in South African surface water using gas chromatography-mass spectrometry. <i>Chemosphere</i> , 2017 , 168, 1042-1050	8.4	65
51	The physicochemical properties and capacitive functionality of pyrrolic- and pyridinic-nitrogen, and boron-doped reduced graphene oxide. <i>Electrochimica Acta</i> , 2017 , 258, 467-476	6.7	10
50	Physical chemical properties of Ce _{0.8} Sm _{0.2} Ir _y Co _{1-y} O ₃ -((y = 0.03-0.04) and preliminary testing as cathode material for low-temperature SOFC. <i>South African Journal of Chemistry</i> , 2017 , 70,	1.8	3
49	Evaluation of Novel Nanophase Ce _{0.8} Sr _{0.2} Fe _{0.9} Ir _{0.1} O ₃ -((as Cathode Material for Low Temperature SOFC. <i>Journal of Nano Research</i> , 2016 , 44, 35-50	1	4
48	A facile approach towards increasing the nitrogen-content in nitrogen-doped carbon nanotubes via halogenated catalysts. <i>Journal of Solid State Chemistry</i> , 2016 , 235, 202-211	3.3	15
47	Green Synthesis of Ag, Au and Au@Ag Bimetallic Nanoparticles Using Chrysophyllum albidum Aqueous Extract for Catalytic Application in Electro-Oxidation of Methanol. <i>Journal of Bionanoscience</i> , 2016 , 10, 216-222		3
46	Organic Solar Cells with Boron- or Nitrogen-Doped Carbon Nanotubes in the P3HT : PCBM Photoactive Layer. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-11	3.2	4
45	Tuning the nitrogen content and surface properties of nitrogen-doped carbon nanotubes synthesized using a nitrogen-containing ferrocenyl derivative and ethylbenzoate. <i>Journal of Materials Science</i> , 2015 , 50, 1187-1200	4.3	18
44	Photocatalytic degradation of 4-chloro-2-methylphenoxyacetic acid using W-doped TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 312, 96-106	4.7	41
43	Bulk Heterojunction Solar Cell with Nitrogen-Doped Carbon Nanotubes in the Active Layer: Effect of Nanocomposite Synthesis Technique on Photovoltaic Properties. <i>Materials</i> , 2015 , 8, 2415-2432	3.5	14
42	Effect of surfactant concentration on active species generation and photocatalytic properties of TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 288-297	21.8	28
41	Synthesis and characterization of novel Ce _{0.8} Sm _{0.2} Fe _{0.9} Ir _{0.03} Co _{0.07} O ₃ perovskite material and possible application as a cathode for low/intermediate temperature SOFCs. <i>Materials Research Bulletin</i> , 2015 , 68, 100-108	5.1	10
40	Synthesis of mesoporous Mn/TiO ₂ nanocomposites and investigating the photocatalytic properties in aqueous systems. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 211-22	5.1	26

39	Occurrence of selected pharmaceuticals in water and sediment of Umgeni River, KwaZulu-Natal, South Africa. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 10298-308	5.1	78
38	Occurrence and significance of polychlorinated biphenyls in water, sediment pore water and surface sediments of Umgeni River, KwaZulu-Natal, South Africa. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 568	3.1	26
37	Charge extracting buffer layers in bulk heterojunction organic solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9891-9897	2.1	2
36	Photo-Catalytic Properties of TiO ₂ Supported on MWCNTs, SBA-15 and Silica-Coated MWCNTs Nanocomposites. <i>Nanoscale Research Letters</i> , 2015 , 10, 427	5	36
35	Pyrrolic nitrogen-doped carbon nanotubes: physicochemical properties, interactions with Pd and their role in the selective hydrogenation of nitrobenzophenone. <i>RSC Advances</i> , 2015 , 5, 109-122	3.7	48
34	Synthesis, Characterization, and Application of TiO ₂ Nanoparticles [Effect of pH Adjusted Solvent. <i>Journal of Advanced Oxidation Technologies</i> , 2015 , 18,		1
33	Pharmaceutical residues in water and sediment of Msunduzi River, KwaZulu-Natal, South Africa. <i>Chemosphere</i> , 2015 , 134, 133-40	8.4	135
32	Effect of boron concentration on physicochemical properties of boron-doped carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2015 , 153, 323-332	4.4	15
31	Multiwalled carbon nanotube-titania nanocomposites: Understanding nano-structural parameters and functionality in dye-sensitized solar cells. <i>South African Journal of Chemistry</i> , 2015 , 68,	1.8	26
30	A review on carbon nanotube/polymer composites for organic solar cells. <i>International Journal of Energy Research</i> , 2014 , 38, 1635-1653	4.5	65
29	Gold nanoparticles for the quantification of very low levels of poly-diallyldimethylammonium chloride in river water. <i>Analytical Methods</i> , 2014 , 6, 6963	3.2	5
28	Preconcentration and spectrophotometric determination of polyDADMAC in treated water by in situ co-precipitation with naphthalene. <i>Physics and Chemistry of the Earth</i> , 2014 , 72-75, 54-60	3	1
27	Mechanochemical synthesis and spectroscopic properties of 1,1'-ferrocenyldiacrylonitriles: the effect of para-substituents. <i>Journal of Coordination Chemistry</i> , 2014 , 67, 1905-1922	1.6	10
26	Photo-catalytic activity of titanium dioxide carbon nanotube nano-composites modified with silver and palladium nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2014 , 156-157, 273-283	21.8	38
25	Method Development for the Determination of Diallyldimethylammonium Chloride at Trace Levels by Epoxidation Process. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1638	2.6	11
24	Immobilized Fe (III)-doped titanium dioxide for photodegradation of dissolved organic compounds in water. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 6028-38	5.1	11
23	Oxyhalogen-sulfur chemistry: kinetics and mechanism of oxidation of captopril by acidified bromate and aqueous bromine. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2704-17	2.8	10
22	Usage of carbon nanotubes as platinum and nickel catalyst support in dehydrogenation reactions. <i>Catalysis Today</i> , 2013 , 217, 65-75	5.3	48

21	Nitrogen-Doped Carbon Nanotubes Synthesised by Pyrolysis of (4-[(pyridine-4-yl)methylidene]amino)phenyl)ferrocene. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-7	3.2	22
20	The double-stranded ladder-like structure of poly[[bis(2-acetato-(2)O:O)bis(acetato-(2)bis(4,4Pbipyridine-(2)N:N)dicopper(II)] 4-nitrophenol disolvate tetrahydrate]. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 1100-3		
19	Challenges in the Assembly of Membrane Electrode Assemblies for Regenerative Fuel Cells using Pt/C, Iridium Black, and IrO ₂ Catalysts 2013 , 191-216		
18	Synthesis of zeolites from coal fly ash: application of a statistical experimental design. <i>Research on Chemical Intermediates</i> , 2012 , 38, 471-486	2.8	10
17	The influence of carbon based supports and the role of synthesis procedures on the formation of platinum and platinum-ruthenium clusters and nanoparticles for the development of highly active fuel cell catalysts. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9459-9469	6.7	25
16	Synthesis highly active platinum tri-metallic electrocatalysts using "one-step" organometallic chemical vapour deposition technique for methanol oxidation process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 38, 012031	0.4	3
15	Physicochemical Properties of Oil-Based Nanofluids Containing Hybrid Structures of Silver Nanoparticles Supported on Silica. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3071-3077	3.9	100
14	Electrical and Proton Conducting Polymer Based Composite Electrodes Incorporating Fuel Cell Catalysts: Screen Printed Systems Analysed Using Hall Measurements. <i>Materials Science Forum</i> , 2010 , 657, 116-142	0.4	3
13	Ionic self-assembly of porphyrin nanostructures on the surface of charge-altered track-etched membranes. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010 , 14, 446-451	1.8	12
12	Investigation of hydrogen storage capacity of multi-walled carbon nanotubes deposited with Pd or V. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6669-6675	6.7	65
11	Hall measurements on carbon nanotube paper modified with electroless deposited platinum. <i>Nanoscale Research Letters</i> , 2009 , 5, 38-47	5	9
10	Carbon nanomaterials synthesized using liquid petroleum gas: Analysis toward applications in hydrogen storage and production. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 3102-3106	6.7	20
9	Synthesis of carbon nanostructured materials using LPG. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 593-600	5.3	18
8	Guiding water into carbon nanopipes with the aid of bipolar electrochemistry. <i>Microfluidics and Nanofluidics</i> , 2005 , 1, 284-288	2.8	34
7	Contactless Tip-Selective Electrodeposition of Palladium onto Carbon Nanotubes and Nanofibers. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 13, 227-237	1.8	25
6	Site selective electrodeposition of metals and conductive polymer nano-structures on isolated carbon nanopipes using electric fields. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 818, 148		2
5	Environmental Scanning Electron Microscopy Study of Water in Carbon Nanopipes. <i>Nano Letters</i> , 2004 , 4, 989-993	11.5	184
4	Pulsed Bipolar Electrodeposition of Palladium onto Graphite Powder. <i>Journal of the Electrochemical Society</i> , 2001 , 148, C647	3.9	18

3	Adsorptive removal of major and trace metal ions from synthetic saline and real seawater samples onto magnetic zeolite nanocomposite: application of multicomponent fixed-bed column adsorption. <i>Journal of the Iranian Chemical Society</i> ,1	2	0
2	Simultaneous removal of Na, Ca, K and Mg from synthetic brine and seawater using Fe ₂ O ₃ -SiO ₂ mixed oxide nanostructures: kinetics104, 206-216		5
1	Deposition of Platinum Nanoparticles onto Copper Foils by Electrophoresis: A Study of the Sintering Dynamics at the Platinum-Copper Interface. <i>Ceramic Transactions</i> ,1-16	0.1	