

# Patrick Ndungu

## List of Publications by Year in descending order

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115  
papers

2,795  
citations

186254

28  
h-index

214788

47  
g-index

116  
all docs

116  
docs citations

116  
times ranked

3818  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Environmental Scanning Electron Microscopy Study of Water in Carbon Nanopipes. Nano Letters, 2004, 4, 989-993.   | 9.1  | 202       |
| 2  | Pharmaceutical residues in water and sediment of Msunduzi River, KwaZulu-Natal, South Africa. Chemosphere, 2015, 134, 133-140.   | 8.2  | 189       |
| 3  | Physicochemical Properties of Oil-Based Nanofluids Containing Hybrid Structures of Silver Nanoparticles Supported on Silica. Industrial & Engineering Chemistry Research, 2011, 50, 3071-3077.   | 3.7  | 126       |
| 4  | Isotherm and kinetic investigations on the adsorption of organophosphorus pesticides on graphene oxide based silica coated magnetic nanoparticles functionalized with 2-phenylethylamine. Journal of Environmental Chemical Engineering, 2018, 6, 1333-1346. | 6.7  | 115       |
| 5  | Occurrence of selected pharmaceuticals in water and sediment of Umgeni River, KwaZulu-Natal, South Africa. Environmental Science and Pollution Research, 2015, 22, 10298-10308.  | 5.3  | 107       |
| 6  | Detection and quantification of acidic drug residues in South African surface water using gas chromatography-mass spectrometry. Chemosphere, 2017, 168, 1042-1050.   | 8.2  | 91        |
| 7  | A review on carbon nanotube/polymer composites for organic solar cells. International Journal of Energy Research, 2014, 38, 1635-1653.   | 4.5  | 84        |
| 8  | Investigation of hydrogen storage capacity of multi-walled carbon nanotubes deposited with Pd or V. International Journal of Hydrogen Energy, 2009, 34, 6669-6675.   | 7.1  | 72        |
| 9  | Theoretical and experimental adsorption studies of phenol and crystal violet dye on carbon nanotube functionalized with deep eutectic solvent. Journal of Molecular Liquids, 2019, 288, 110895.  | 4.9  | 60        |
| 10 | Pyrrolic nitrogen-doped carbon nanotubes: physicochemical properties, interactions with Pd and their role in the selective hydrogenation of nitrobenzophenone. RSC Advances, 2015, 5, 109-122.   | 3.6  | 59        |
| 11 | Usage of carbon nanotubes as platinum and nickel catalyst support in dehydrogenation reactions. Catalysis Today, 2013, 217, 65-75.   | 4.4  | 56        |
| 12 | Theoretical and experimental adsorption studies of sulfamethoxazole and ketoprofen on synthesized ionic liquids modified CNTs. Ecotoxicology and Environmental Safety, 2018, 161, 542-552.   | 6.0  | 55        |
| 13 | Photo-Catalytic Properties of TiO <sub>2</sub> Supported on MWCNTs, SBA-15 and Silica-Coated MWCNTs Nanocomposites. Nanoscale Research Letters, 2015, 10, 427.   | 5.7  | 54        |
| 14 | Photo-catalytic activity of titanium dioxide carbon nanotube nano-composites modified with silver and palladium nanoparticles. Applied Catalysis B: Environmental, 2014, 156-157, 273-283.   | 20.2 | 52        |
| 15 | Performance evaluation of surfactant modified kaolin clay in As(III) and As(V) adsorption from groundwater: adsorption kinetics, isotherms and thermodynamics. Heliyon, 2019, 5, e02756.   | 3.2  | 49        |
| 16 | Photocatalytic degradation of 4-chloro-2-methylphenoxyacetic acid using W-doped TiO <sub>2</sub> . Journal of Photochemistry and Photobiology A: Chemistry, 2015, 312, 96-106.   | 3.9  | 46        |
| 17 | Sol-gel synthesis of Mn Ni <sub>1</sub> Co <sub>2</sub> O <sub>4</sub> spinel phase materials: Structural, electronic, and magnetic properties. Journal of Alloys and Compounds, 2018, 742, 78-89.   | 5.5  | 40        |
| 18 | Deep eutectic solvent as an efficient modifier of low-cost adsorbent for the removal of pharmaceuticals and dye. Environmental Research, 2019, 179, 108837.  | 7.5  | 39        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | 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.   | 7.5  | 39        |
| 20 | Guiding water into carbon nanopipes with the aid of bipolar electrochemistry. <i>Microfluidics and Nanofluidics</i> , 2005, 1, 284-288.   | 2.2  | 36        |
| 21 | Effect of surfactant concentration on active species generation and photocatalytic properties of TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 288-297.   | 20.2 | 36        |
| 22 | 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, .   | 0.6  | 36        |
| 23 | Noncovalent Graphene Oxide Functionalized with Ionic Liquid: Theoretical, Isotherm, Kinetics, and Regeneration Studies on the Adsorption of Pharmaceuticals. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 4945-4957.  | 3.7  | 35        |
| 24 | Synthesis of mesoporous Mn/TiO <sub>2</sub> nanocomposites and investigating the photocatalytic properties in aqueous systems. <i>Environmental Science and Pollution Research</i> , 2015, 22, 211-222.   | 5.3  | 33        |
| 25 | 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.  | 6.7  | 32        |
| 26 | Contactless Tip-Selective Electrodeposition of Palladium onto Carbon Nanotubes and Nanofibers. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005, 13, 227-237.   | 2.1  | 29        |
| 27 | 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. | 7.1  | 28        |
| 28 | 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.   | 2.7  | 28        |
| 29 | Synthesis and characterization of deep eutectic solvent functionalized CNT/ZnCo <sub>2</sub> O <sub>4</sub> nanostructure: Kinetics, isotherm and regenerative studies on Eosin Y adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102877.                       | 6.7  | 28        |
| 30 | Enhanced As(III) and As(V) Adsorption From Aqueous Solution by a Clay Based Hybrid Sorbent. <i>Frontiers in Chemistry</i> , 2019, 7, 913.   | 3.6  | 27        |
| 31 | 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.   | 3.7  | 25        |
| 32 | 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.  | 7.1  | 24        |
| 33 | 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.   | 6.1  | 24        |
| 34 | 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.   | 3.6  | 24        |
| 35 | 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.   | 2.7  | 22        |
| 36 | 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, 45959.   | 2.6  | 22        |

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|----|--|-----|-----------|
| 37 | Synthesis of carbon nanostructured materials using LPG. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 593-600.  | 4.4 | 21        |
| 38 | Effect of boron concentration on physicochemical properties of boron-doped carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2015, 153, 323-332.  | 4.0 | 21        |
| 39 | Pulsed Bipolar Electrodeposition of Palladium onto Graphite Powder. <i>Journal of the Electrochemical Society</i> , 2001, 148, C647.   | 2.9 | 20        |
| 40 | 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.                      | 3.7 | 19        |
| 41 | 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.   | 2.7 | 19        |
| 42 | 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.                                  | 3.9 | 19        |
| 43 | Method Development for the Determination of Diallyldimethylammonium Chloride at Trace Levels by Epoxidation Process. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1638.  | 2.4 | 18        |
| 44 | 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.  | 2.9 | 18        |
| 45 | 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.  | 5.2 | 18        |
| 46 | 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.   | 4.0 | 18        |
| 47 | Quaternized poly (2.6 dimethyl 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.                                    | 2.4 | 18        |
| 48 | 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.           | 3.7 | 17        |
| 49 | Oxygen-modified multiwalled carbon nanotubes: physicochemical properties and capacitor functionality. <i>International Journal of Energy Research</i> , 2017, 41, 1182-1201.   | 4.5 | 16        |
| 50 | The generation of charge carriers in semi conductors – A theoretical study. <i>Chemical Physics Letters</i> , 2017, 678, 167-176.  | 2.6 | 16        |
| 51 | Synthesis and characterization of Ce <sub>0.6</sub> Sr <sub>0.4</sub> Fe <sub>0.8</sub> Co <sub>0.2</sub> O <sub>3</sub> perovskite material: Potential cathode material for low temperature SOFCs. <i>Journal of Rare Earths</i> , 2017, 35, 389-397. | 4.8 | 16        |
| 52 | 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.        | 5.3 | 16        |
| 53 | Mn substituted Mn <sub>x</sub> Zn <sub>1-x</sub> Co <sub>2</sub> O <sub>4</sub> oxides synthesized by co-precipitation; effect of doping on the structural, electronic and magnetic properties. <i>RSC Advances</i> , 2018, 8, 39837-39848.            | 3.6 | 16        |
| 54 | 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.  | 3.7 | 16        |

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|----|--|-----|-----------|
| 55 | Synthesis of Carbon Nanomaterials from Biomass Utilizing Ionic Liquids for Potential Application in Solar Energy Conversion and Storage. <i>Materials</i> , 2020, 13, 3945.  | 2.9 | 16        |
| 56 | 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.  | 2.9 | 15        |
| 57 | Ultrasound Assisted Adsorptive Removal of Cr, Cu, Al, Ba, Zn, Ni, Mn, Co and Ti from Seawater Using Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -PAN Nanocomposite: Equilibrium Kinetics. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 133.  | 2.6 | 15        |
| 58 | Synthesis of zeolites from coal fly ash: application of a statistical experimental design. <i>Research on Chemical Intermediates</i> , 2012, 38, 471-486.  | 2.7 | 14        |
| 59 | Gold nanoparticles for the quantification of very low levels of poly-diallyldimethylammonium chloride in river water. <i>Analytical Methods</i> , 2014, 6, 6963.   | 2.7 | 14        |
| 60 | 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.   | 2.7 | 14        |
| 61 | 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.  | 2.7 | 14        |
| 62 | Chemical Vapour Deposition of MWCNT on Silica Coated Fe <sub>3</sub> O <sub>4</sub> and Use of Response Surface Methodology for Optimizing the Extraction of Organophosphorus Pesticides from Water. <i>International Journal of Analytical Chemistry</i> , 2019, 2019, 1-16.                                | 1.0 | 13        |
| 63 | 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, 4022.  | 2.6 | 13        |
| 64 | Hydrogeochemical characteristics of arsenic rich groundwater in Greater Giyani Municipality, Limpopo Province, South Africa. <i>Groundwater for Sustainable Development</i> , 2020, 10, 100336.  | 4.6 | 13        |
| 65 | 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.   | 0.8 | 12        |
| 66 | Immobilized Fe (III)-doped titanium dioxide for photodegradation of dissolved organic compounds in water. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6028-6038.   | 5.3 | 12        |
| 67 | 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, 2704-2717.   | 2.5 | 12        |
| 68 | Mechanochemical synthesis and spectroscopic properties of 1,1'-ferrocenyldiacrylonitriles: the effect of <i>para</i> -substituents. <i>Journal of Coordination Chemistry</i> , 2014, 67, 1905-1922.  | 2.2 | 12        |
| 69 | Synthesis and characterization of novel Ce <sub>0.8</sub> Sm <sub>0.2</sub> Fe <sub>0.9</sub> Ir <sub>0.03</sub> Co <sub>0.07</sub> O <sub>3</sub> perovskite material and possible application as a cathode for low intermediate temperature SOFCs. <i>Materials Research Bulletin</i> , 2015, 68, 100-108. | 5.2 | 12        |
| 70 | Recent advances in titanium dioxide/graphene photocatalyst materials as potentials of energy generation. <i>Bulletin of Materials Science</i> , 2018, 41, 1.   | 1.7 | 12        |
| 71 | 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, 654.   | 2.6 | 12        |
| 72 | Low temperature synthesis of multiwalled carbon nanotubes and incorporation into an organic solar cell. <i>Journal of Experimental Nanoscience</i> , 2017, 12, 363-383.  | 2.4 | 11        |

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|----|--|-----|-----------|
| 73 | 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.  | 3.7 | 11        |
| 74 | Mn-Ni-Co-O Spinel Oxides towards Oxygen Reduction Reaction in Alkaline Medium: Mn <sub>0.5</sub> Ni <sub>0.5</sub> Co <sub>2</sub> O <sub>4</sub> /C Synergism and Cooperation. <i>Catalysts</i> , 2021, 11, 1059.   | 3.5 | 11        |
| 75 | Nickel Oxide-Carbon Soot-Cellulose Acetate Nanocomposite for the Detection of Mesitylene Vapour: Investigating the Sensing Mechanism Using an LCR Meter Coupled to an FTIR Spectrometer. <i>Nanomaterials</i> , 2022, 12, 727.   | 4.1 | 11        |
| 76 | Current Applications of Magnetic Nanomaterials for Extraction of Mycotoxins, Pesticides, and Pharmaceuticals in Food Commodities. <i>Molecules</i> , 2021, 26, 4284.   | 3.8 | 10        |
| 77 | Combustion Characterisation of Bituminous Coal and Pinus Sawdust Blends by Use of Thermo-Gravimetric Analysis. <i>Energies</i> , 2021, 14, 7547.   | 3.1 | 10        |
| 78 | Hall Measurements on Carbon Nanotube Paper Modified With Electroless Deposited Platinum. <i>Nanoscale Research Letters</i> , 2010, 5, 38-47.   | 5.7 | 9         |
| 79 | 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.   | 2.7 | 9         |
| 80 | 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.   | 3.5 | 9         |
| 81 | Carbon Encapsulated Ternary Mn-Ni-Co Oxide Nanoparticles as Electrode Materials for Energy Storage Applications. <i>Electroanalysis</i> , 2020, 32, 2926-2935.   | 2.9 | 9         |
| 82 | Challenges of 3D printing in LIB electrodes: Emphasis on material-design properties, and performance of 3D printed Si-based LIB electrodes. <i>Journal of Power Sources</i> , 2022, 543, 231840.   | 7.8 | 9         |
| 83 | 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.  | 2.6 | 7         |
| 84 | 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.  | 2.9 | 7         |
| 85 | Activated <i>Hordeum vulgare</i> L. dust as carbon paste electrode modifier for the sensitive electrochemical detection of Cd <sup>2+</sup> , Pb <sup>2+</sup> and Hg <sup>2+</sup> ions. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 1429-1445. | 3.3 | 7         |
| 86 | Simultaneous removal of Na, Ca, K and Mg from synthetic brine and seawater using Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> mixed oxide nanostructures: kinetics. <i>Journal of Materials</i> , 2019, 10, 104, 206-216.  |     | 7         |
| 87 | A Novel BiOCl Based Nanocomposite Membrane for Water Desalination. <i>Membranes</i> , 2022, 12, 505.   | 3.0 | 7         |
| 88 | 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.   | 4.0 | 6         |
| 89 | 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.   | 1.8 | 6         |
| 90 | Ionic liquids and cellulose: Innovative feedstock for synthesis of carbon nanostructured material. <i>Materials Chemistry and Physics</i> , 2019, 234, 201-209.  | 4.0 | 6         |

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|-----|--|-----|-----------|
| 91  | Surface modifications of carbon nanotubes towards tailored electrochemical characteristics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27923.   | 2.2 | 5         |
| 92  | Evaluation of Novel Nanophase $Ce_{0.8}Sr_{0.2}Fe_{0.9}Ir_{0.1}O_{3-\delta}$ as Cathode Material for Low Temperature SOFC. <i>Journal of Nano Research</i> , 0, 44, 35-50.   | 0.8 | 3         |
| 93  | 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.  | 1.8 | 4         |
| 94  | Effects of Ionic Liquid and Biomass Sources on Carbon Nanotube Physical and Electrochemical Properties. <i>Sustainability</i> , 2021, 13, 2977.  | 3.2 | 4         |
| 95  | Green Synthesis of Ag, Au and Au@Ag Bimetallic Nanoparticles Using <i>Chrysophyllum albidum</i> Aqueous Extract for Catalytic Application in Electro-Oxidation of Methanol. <i>Journal of Bionanoscience</i> , 2016, 10, 216-222.                                      | 0.4 | 4         |
| 96  | 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> , 2022, 19, 2949-2961. | 2.2 | 4         |
| 97  | Prediction of electronic properties of novel ZnO-recycled expanded polystyrene nanocomposites by DFT. <i>Heliyon</i> , 2022, 8, e08903.  | 3.2 | 4         |
| 98  | Risk Assessment of Personal Care Products, Pharmaceuticals, and Stimulants in Mgeni and Msunduzi Rivers, KwaZulu-Natal, South Africa. <i>Frontiers in Water</i> , 2022, 4, .   | 2.3 | 4         |
| 99  | 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.   | 0.3 | 3         |
| 100 | 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.                | 0.6 | 3         |
| 101 | Synthesis, structural characterization, and magnetic properties of mixed ternary spinel-type Mn-Ni-Co oxides. <i>Materials Today: Proceedings</i> , 2018, 5, 10488-10495.  | 1.8 | 3         |
| 102 | Physical chemical properties of $Ce_{0.8}Sm_{0.2}Ir_{y}Co_{1-y}O_{3-\delta}$ ( $y = 0.03-0.04$ ) and preliminary testing as cathode material for low-temperature SOFC. <i>South African Journal of Chemistry</i> , 2017, 70, .   | 0.6 | 3         |
| 103 | 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.  | 5.1 | 3         |
| 104 | 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.   | 0.1 | 2         |
| 105 | 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.   | 2.9 | 2         |
| 106 | Charge extracting buffer layers in bulkheterojunction organic solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9891-9897.   | 2.2 | 2         |
| 107 | Effect of Surfactants on the Physico-Chemical Characteristics of $IrO/Ce_{0.8}Sm_{0.2}O_{2-\delta}$ Nanocomposite for SOFC Application. <i>ECS Transactions</i> , 2017, 78, 783-793.   | 0.5 | 2         |
| 108 | Micellization of a starch-poly(1,4-butylene succinate) nano-hybrid for enhanced energy storage. <i>RSC Advances</i> , 2021, 11, 11745-11759.   | 3.6 | 2         |

