

**Day One: MONDAY 19<sup>th</sup> November 2018**

<b>0800-0900 Registration and Exhibition Stalls</b>				
<b>09h00-1230 Official Opening Session</b>				
09h00 - 09h15	Welcome Session: <b>Prof. T. Meyiwa</b> (VP-Research & Commercialization, UNISA)			
09h15 - 09h30	Welcome by Nanosmat-Society-UK (Dr. N. Ali)			
09h30 - 09h45	Opening Session: A continental perspective, Towards 1% GDP investment in African STI landscape ( <b>Prof. A. Gurib-Fakim</b> , 6 <sup>th</sup> President of the Republic of Mauritius)			
09h45 - 10h00	Contribution from NRF: <b>Prof. G. Pillay</b> , Vice-President/National Research Foundation of South Africa			
10h00 - 10h15	Contribution from DST: <b>Dr. M. Chaba</b> , Director/Africa Directorate-Department of Science & Technology, DST-South Africa			
10h15 - 10h30	Implementation of the SANi' strategy: <b>Dr. R. Maharaj</b> , Director/NRF-South Africa			
10h30 - 10h45	Editor-in-Chief of Scientific African Journal - Elsevier Publishing & Next Einstein Forum: <b>Prof. Benji Gyampoh</b> , Ghana			
10h45 - 11h00	<b>Tea Break</b>			
11h00 - 11h50	1 <sup>st</sup> Plenary Contribution: <b>Prof. C.N.R. RAO</b> , JNCASR, India			
11h50 - 12h40	2 <sup>nd</sup> Plenary Contribution: <b>Prof. J.M. LEHN</b> , Nobel Laureate, University Strasbourg, France			
12h40 - 14h00	<b>Group Photo &amp; Lunch Break</b>			
<b>Breakaway Sessions</b>				
	<b>Venue - A</b> <b>(Functional Nanomaterials)</b>	<b>Venue - B</b> <b>(Green Nanomaterials)</b>	<b>Venue - C</b> <b>(Nano Energy)</b>	<b>Venue - D</b> <b>(Nano Health/Photonics)</b>
	<b>Symposium Chairs</b>	<b>Symposium Chairs</b>	<b>Symposium Chairs</b>	<b>Symposium Chairs</b>
14h00 - 14h30	<b>Prof. Margot Joelle</b> University of Montreal Canada	<b>Prof. Igor Polikarpov</b> University of Sao Paulo Brazil	<b>Dr. Artur Braun</b> EMPA, Switzerland	<b>Prof. M. Reza Hormozi-Nezhad</b> Sharif University of Technology, Iran
14h30 - 15h00	<b>Prof. Rachid Sbiaa</b> Sultan Qaboos University Oman	<b>Prof. Alain Gibaud</b> University of the Maine France	<b>Prof. Neil Coville</b> Wits University South Africa	<b>Dr. Bhaw-Luximon, Archana</b> University of Mauritius

				Mauritius
15h30 - 16h00	<b>Prof. Won Kook Choi</b> Korea Institute of Science and Technology, South Korea	<b>Dr. N. Moloto</b> Wits University South Africa	<b>Prof. Mmantsae Diale</b> University of Pretoria South Africa	<b>Prof. Amber R. Solangi</b> University of Sindh Jamshoro, Pakistan
16h00 - 16h30	<b>Tea Break in Poster Area</b>			
16h30 - 16h45	<b>Mphoma Matseke</b> CoFe <sub>2</sub> O <sub>4</sub> /C-catalyzed oxygen reduction reaction in alkaline media	<b>Sibusiso Nqayi</b> Photocatalytic water splitting with CdS quantum dots made photocatalysts	<b>Ganga Babu Geetha</b> Atomic and electronic structure of Ge/Al <sub>2</sub> O <sub>3</sub> (0001)	<b>Megan Matthews</b> Functionalising polydiacetylene vesicles with silver nanoparticles for gas detection in food packaging
16h15 - 16h30	<b>Kulbir Ghuman</b> RuFe Nano Alloy Catalyst for NH <sub>3</sub> Synthesis: Higher activity and resistance to surface poisoning than conventional Ru and Fe Catalysts	<b>Rajasegaran Elumalai</b> Development of bio-inspired pomegranate peel-protamine-hyaluronic acid multilayered skin grafts for wound healing applications	<b>Moses Tembo</b> Efficiency enhancement in P3HT:PCBM blends using Squarylium III dye	<b>Azole Sindelo</b> Development of Magnetic Nanoparticles-Phthalocyanine Conjugates for Inactivation of Bacteria
16h30 - 16h45	<b>Molise Mphuthi</b> The effect of annealing temperature and spin speed on the optical and structural properties of Zn <sub>0.05</sub> S:Cu <sub>0.05</sub> nanoparticle thin films prepared by spin-coating	<b>Ntoufa Sylla</b> Biosynthesis of Magnesioferrite MgFe <sub>2</sub> O <sub>4</sub> spinel nanostructures from Hibiscus Sabdariffa calices extracts for supercapacitors applications	<b>Edward Lee</b> Luminescence properties of Y <sub>2</sub> O <sub>3</sub> :Bi,Yb nanostructured thin films prepared using spin coating and pulsed laser deposition	<b>Nikiwe Khoza</b> Synthesis of highly photoluminescent carbon nanodots for use as carbon monoxide sensors in polymer electrolyte membrane fuel
16h45 - 17h00	<b>Rethabile Makole</b> Determining the surface nanostructure of Ag doped soda lime glass annealed at different times using XPS	<b>Pradeep Kumar</b> Prolamine-Engineered Nanofibrous Implant for Spinal Cord Repair and Regeneration	<b>Lucas Erasmus</b> Utilising a phosphor material as a nano temperature sensor	<b>Mamello Sekhoacha</b> The use of medicinal plants in developing nanomedicine for treatment of breast cancer
17h00 - 18h30	<b>Poster Session Cocktail &amp; Interaction Session</b>			
<b>Day Two: TUESDAY 20<sup>th</sup> November 2018</b>				

09h00 - 09h50	3 <sup>rd</sup> Plenary Contribution: <b>Prof. Hanns-Ulrich Habermeier</b> Max-Planck-Institute for Solid State Research, Germany			
09h50 - 10h40	4 <sup>th</sup> Plenary Contribution: <b>Prof. David Cahen</b> Weizmann Institute of Science, Israel			
10h40 - 11h00	Presentation by Springer Nature Publishing <b>Dr. Evelyn Ramforth</b> , Germany			
11h00 - 11h30	<b>Tea Break in Poster Area</b>			
<b>Breakaway Sessions</b>				
	<b>Venue - A</b> <b>(Functional Nanomaterials)</b>	<b>Venue - B</b> <b>(Green Nanomaterials)</b>	<b>Venue - C</b> <b>(Nano-Energy)</b>	<b>Venue - D</b> <b>(Nano-Health/Photonics)</b>
	<b>Symposium Chairs</b>	<b>Symposium Chairs</b>	<b>Symposium Chairs</b>	<b>Symposium Chairs</b>
11h30 - 12h00	<b>Prof. J. Kennedy</b> GNS, New Zealand	<b>Prof. Neerish Revaprasadu</b> UNIZULU, South Africa	<b>Prof. Federico Rosei</b> INRS, Canada	<b>Prof. Zouheir Sekkat</b> MASCIR, Morocco
12h00 - 12h30	<b>Prof. H.C. Swart</b> University of the Free State, Bloemfontein, South Africa	<b>Dr. Mohammed Khenfouch</b> UNISA, South Africa	<b>Prof. Jung Hyun Jeong</b> Structural and electrical properties and chemical Bonding Energy of LNO thin films and non- stoichiometric LNO thin films	<b>Prof. Johann Boucle</b> XLIM, University of Limoges/CNRS
12h30 - 14h00	<b>Lunch Break</b>			
14h00 - 14h50	5 <sup>th</sup> Plenary Contribution: <b>Prof. Uzi Landman</b> , Georgia Institute of Technology, Georgia, USA			
14h50 - 15h40	6 <sup>th</sup> Plenary Contribution: <b>Prof. Alfred Z Msezane</b> , Clark Atlanta University, Atlanta, USA			
15h40 - 16h00				
16h00 - 16h30	<b>Tea Break in Poster Area</b>			
16h30 - 16h45	<b>N Ddiaya</b> 3d vanadium pentoxide/graphene foam composite for supercapacitor	<b>William Motswainyana</b> ad- free PSF/PVP blend membranes for water	<b>Setumo Motloung</b> Phase transition and optical properties of Ba <sub>1</sub> .	<b>Nana Arthur</b> LENS Processing and Characterisation of

	applications	purification	$x\text{Zn}_x\text{Al}_2\text{O}_4:0.1\% \text{Eu}^{3+}$ prepared via citrate sol-gel method	Aluminium Coated With 5 wt% $\text{Al}_2\text{O}_3$ Nano-Particles
16h45 - 17h00	<b>Pankaj Mohanty</b> Magnetic Phase Transitions in $(\text{Co}_{0.75}\text{Ni}_{0.25})\text{Cr}_2\text{O}_4$ Thin Film Grown by Pulsed Laser Deposition	<b>Mogolodi Dimpe</b> Application of activated carbon decorated PAN nanofibers as an adsorbent in dispersive solid phase extraction of flouroquinolones in wastewater	<b>Delvina Japhet</b> Effects of Deposition and Annealing Conditions on Thermochromism of $\text{VO}_2$ Films	<b>Nolubabalo Matinise</b> A green approach of bismuth iron oxide nanocomposites using Moringa oleifera natural extract for high energy super-capacitive nanomaterial
17h00 - 17h15	<b>Juvet Nche Fru</b> Using Self-Doping to Study the Effect Interfaces on Performance of Hybrid Organic- Inorganic Perovskites Solar Cells	<b>Pannan Kyesmen</b> Structural, Morphological and Optical Properties of Hematite Thin Films Prepared Using Dip and Spin Coating Techniques for Photo-electrochemical Water Splitting	<b>Funda Mpanza</b> Mid-temperature selective solar absorber based on $\text{Cr}_2\text{O}_3/\text{Zr}/\text{Cr}_2\text{O}_3/\text{Cu}$ multilayered thin films	<b>Abongile Nwabisa Jijana</b> The Detection of Arsenic (III) Using L-Cysteine/ $\alpha$ -Lipoic acid Coated Gold Nanoparticles Platted on Screen Printed Carbon Electrode (SPCE) Interfaces
17h15 - 17h30	<b>Richard Harris</b> Monodispersed superparamagnetic nanoparticles: controlling the size with nanometer precision	<b>Gloria Adewumi</b> Thermal conductivity of nanofluids prepared from biobased nanomaterials dispersed in 60:40 ethylene glycol/water base fluid	<b>Hendrik C Swart</b> Luminescent materials for Solid State Lighting and Solar cell applications	<b>Nikiwe Mhlanga</b> Au@Ag SERS substrates: towards bio-sensing of infectious diseases
17h30 - 18h30	<b>Young Scientist Competition</b>			
<b>Day Three: WEDNESDAY 21<sup>st</sup> November 2018</b>				
09h00 - 09h50	7 <sup>th</sup> Plenary Contribution: <b>Prof. Pablo Esquinazi</b> , University of Leipzig, Germany			
09h50 - 10h40	8 <sup>th</sup> Plenary Contribution: <b>Prof. Norbert Kucerka</b> , Joint Institute for Nuclear Research, Dubna, Russia			
10h40 - 11h00				
11h00 - 11h30	<b>Tea Break in Poster Area</b>			
<b>Breakaway Sessions</b>				

	Venue - A (Functional Nanomaterials)	Venue - B (Green Nanomaterials)	Venue – C (Nano Energy)	Venue – D (Nano Health/Photonics)
	Symposium Chairs	Symposium Chairs	Symposium Chairs	Symposium Chairs
11h30 - 12h00	<b>Dr. Rachel Odessey</b> Brown University, USA	<b>Dr. Mirabbos Hojamberdiev</b> Improving the Visible-Light-Induced Photocatalytic Activity for Removal of Organic Pollutants of $\beta$ -Bi <sub>2</sub> O <sub>3</sub>	<b>Prof. Kenneth Ozoemena</b> Wits University, South Africa	<b>Prof. Christopher Arendse</b> Thermal induced chemical composition evolution of Sn-nanostructures by in-situ x-ray photoelectron spectroscopy
12h00 - 12h30	<b>Dr. Margaret Samiji</b> Optimization of the Cu and Zn Deposition Power and Thickness on the Optical and Electrical Properties of CZTSe Absorber Layer for Thin Film Solar Cells Prepared by DC Magnetron Sputtering	<b>Prof. Bakang Moses Mothudi</b>	<b>Dr. Mathew Moodley</b>	<b>Dr. Amina S Aljaber</b> Promoted Carbon Monoxide Oxidation over Titania Supported Palladium-Copper Catalysts
12h30 - 14h00	<b>Lunch Break</b>			
14h00 - 14h50	9 <sup>th</sup> Plenary Contribution: <b>Prof. Ron Naaman</b> - Weizmann Institute of Science, Israel			
14h50 - 15h40	10 <sup>th</sup> Plenary Contribution: <b>Prof. A.K. Tyagi</b> , BARC, India			
15h40 - 16h00				
16h00 - 16h30	<b>Tea Break in Poster Area</b>			
16h30 - 16h45	<b>Kaviyarasu Kasinathan</b> Environmental Performance of Oxygen-Rich pure TiO <sub>2</sub> Nanoparticles as Solar-Light Driven Photocatalysts of Methyl Orange and Methylene	<b>Hamza Mohamed</b> Bio-inspired of Fe doped BiVO <sub>4</sub> Nanoparticles via Hyphaene thebaica natural extract and their photocatalytic MB degradation properties	<b>Assumta Nwanya</b> Nano-rod-like Na <sub>0.44</sub> MnO <sub>2</sub> as cathode material for aqueous sodium ion battery	<b>Lynndle Square</b> Hydrogen Bonded Network Variation with Increase in Pressure of Doped poly (2, 5-benzimidazole) Membrane
16h45 - 17h00	<b>Sanele Nyembe</b>	<b>Rueben Pfukwa</b>	<b>Tshimangadzo Munonde</b>	<b>Ntsoaki Mphuthi</b>

	Branched Silicon Nanowires via Catalytic Assisted Laser Ablation for Photovoltaic	Pyrrolidone based polymers in advanced polymer materials	<b>Tshimangadzo Munonde</b> Nanostructured NiFe <sub>2</sub> O <sub>4</sub> composites as electrocatalysts for hydrogen evolution reaction (HER) in acidic solutions	Metal nanostructures for non-enzymatic biosensing, a case of glucose
17h00 - 17h15	<b>Tina Lefakane</b> Embedded Metal Oxides to Improve Chemical and Physico-Mechanical Properties of Polymer Films	<b>Rudo Sithole</b> Colloidal Sulfidation of Copper Nitride to Copper Sulfide Nanoparticles using Dodecanethiol Ligand	<b>Ntalane Seroka</b> Early Transition Metal Carbide, Carbon nanoparticles and Synthetic-polymer nanocomposites for the application of Hydrostatic-pressure Sensors	<b>Thywill Dzogbewu</b> Evolution of surface modification of bone related metal implants
17h15 - 17h30	<b>I.G. Madiba</b> Effects of neutron irradiations on reactive pulsed laser deposited vanadium dioxide thin films	<b>Noluthando Mayedwa</b> Green Synthesis of Nanostructured CuAl <sub>2</sub> O <sub>4</sub> via natural extracts of Hiscus Rosa Sinensis: Structural, Mechanism of formation, Electrochemical, Optical and Photocatalytic Properties	<b>Refilwe Mogale</b> ZIF-8 and NH <sub>2</sub> -MIL-53(Al) As Support For Pd and Ag Crystallites with Application in Heterogeneous Catalysis	<b>Kabo Isaac Matshetshe</b> High water permeable, chlorine resistance and biocidal β-cyclodextrin functionalized graphene oxide/thin-film composite membrane for seawater desalination
<b>Day Four: THURSDAY 22<sup>nd</sup> November 2018</b>				
09h00 - 09h50	11 <sup>th</sup> Plenary Contribution: <b>Professor Suprakas Sinha Ray</b> , Council for Scientific and Industrial Research, South Africa			
09h50 - 10h40	12 <sup>th</sup> Plenary Contribution: <b>Prof. Giorgio Sberveglieri</b> , University of Brescia, Italy			
10h40 - 11h00				
11h00 - 11h30	<b>Tea Break in Poster Area</b>			
<b>Breakaway Sessions</b>				
	<b>Venue - A</b> <b>(Functional Nanomaterials)</b>	<b>Venue - B</b> <b>(Green Nanomaterials)</b>	<b>Venue – C</b> <b>(Nano Energy)</b>	<b>Venue – D</b> <b>(Nano Health/Photonics)</b>

	Symposium Chairs	Symposium Chairs	Symposium Chairs	Symposium Chairs
11h30 - 12h00	<b>Prof. Genene Tessema Mola</b> Nano-composite assisted electron transport buffer layer in perovskite solar cell	<b>Prof. Ezema Fabian Ifeanyi</b> <b>chukwu</b>	<b>Prof. Ncholu Manyala</b> Physical Properties Of ZnO:Al Thin Films Deposited by Sputtering	<b>Dr. Hendriette Van der Walt</b> Determining nanomaterial toxicity in real-time with electronic cell-substrate impedance sensing (ECIS)
12h00 - 12h30	<b>Dr. Force Tefo Thema</b> Ion beam induced nano-welding of nanowires/nanotubes for integration of nano-devices	<b>Prof. E. Manikandan</b> Characteristic Electron Field Emission from ZnO-Carbon Nanocomposites thin films	<b>Prof. KH. Bouziane</b>	<b>Prof. S. Dube</b> structural and optical effect of l-arginine growth on hematite films prepared by thermal spray pyrolysis
12h30 - 14h00	<b>Lunch Break</b>			
14h00 - 14h50	13 <sup>th</sup> Plenary Contribution: <b>Prof. Roberta Ramponi</b> , IFN-CNR and Politecnico di Milano, Italy			
14h50 - 15h40	14 <sup>th</sup> Plenary Contribution: <b>Prof. Mohamed Chaker</b> , INRS, Canada			
15h40 - 16h00				
16h00 - 16h30	<b>Tea Break in Poster Area</b>			
16h30 - 16h45	<b>Onesmus Munyati</b> Highly Conductive Sodium dodecyl Sulfate Treated PEDOT:PSS Containing Copper Nanoparticles for Flexible Organic Solar Cells	<b>J. Sackey</b> Comprehensive analysis of retro-reflection in Papilio crino Fabricius ,1792 wings	<b>Saleh Khamlich</b> One-Step Solvothermal Deposition of Graphene Nanosheets on Nickel Foam for Energy Storage Applications	<b>Miss Lerato Machogo</b> Synthesis and characterisation of gold selenide: effect on the order of precursor addition
16h45 - 17h00	<b>Cliffon Masedi</b> Beyond Li-ion: Computational Modelling Studies on Stability of Li-S-Se System	<b>Temesgen Girma Kebede</b> Adsorption removal of acidic drugs from wastewater using nanofiber from Mondia whitei seed extract	<b>Mamogo Masenya</b> Growth of Silicon Carbide nanostructures by isothermal annealing in the presence of a metal catalyst	<b>Prof. Daoud Mezza</b> Structural and electrical properties of lead-free BCZT ceramic elaborated by Surfactant-assisted solvothermal processing

17h00 - 17h15	<b>Tshegofatso Moipolai</b> Synthesis and Characterization of Ion Beam Irradiated CZTS Thin Films for Photovoltaic Applications	Talk Venue B	<b>Khomotso Maenetja</b> Density Functional Theory Study of K/Mg Adsorption on (110) MO <sub>2</sub> (M= Mn, Ti, V) Surfaces	Talk Venue D
17h15 - 17h30	Talk Venue A	Talk Venue B	Talk Venue C	Talk Venue D
17h30 - 18h30				
<b>Day Five: FRIDAY 23<sup>rd</sup> November 2018</b>				
09h00 - 09h50	15 <sup>th</sup> Plenary Contribution: <b>Prof. Mary Gulumian</b> , National Institute for Occupational Health, Johannesburg, South Africa			
09h50 - 10h40	Strategic Session (By Invitation Only)			
	Closing Session			
	High Tea			
	Excursion			

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T. No	Abstract No	Delegate Names	Title of the submitted abstracts for poster	Order of Days
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1	NANO-174	Annah Makhongoana	Synthesis of Nitrogen-Doped Carbon Nanotube/Gold Composites For Application In Organic Solar Cells	D1
2	NANO-179	Lineo Mxakaza	Preparation of Cu <sub>2</sub> ZnSnS <sub>4</sub> /N-MWCNT nanohybrid for application in dye sensitized solar cells as counter electrode	D1
3	NANO-197	Puledi Mphago	Hydrothermal synthesis of fluorescent nitrogen-doped carbon dots using fumaronitrile precursor for applications in organic solar cells	D1
4	NANO-172	Lebogang Mosiane	The effect of temperature on B and N configurations and properties of boron and nitrogen codoped multiwalled carbon nanotubes	D1
5	NANO-332	Themba Ntuli	Metal free carbon quantum dots derived from Macadamia nutshells for adsorption of hexavalent chromium from aqueous solution.	D1
6	NANO-299	Megan Matthews	Functionalising polydiacetylene vesicles with silver nanoparticles for gas detection in food packaging	D1
7	NANO-157	Fatema Ahmed	Wide bandgap SiC thin films as window layer for applications in thin silicon film solar cells	D1
8	NANO-173	Bello Ladan Muhammad	Nitrogen plasma treatment of ZnO and TiO <sub>2</sub> nanowire arrays for polymer photovoltaic application	D1
9	NANO-181	Theophilus Muller	Insights into the stress, structural and optical properties of nanocrystalline silicon thin films produced by hot-wire CVD at different deposition pressures	D1
10	NANO-167	Franscius Cummings	Electron energy loss spectroscopy characterization of effect of hydrogen profiling on the structural properties of hot-wire CVD prepared nanocrystalline Si thin films for hybrid photovoltaics	D1
11	NANO-1	J. Sackey	Structural and Optical Properties of Transparent Wing of Dragonfly	D1
12	NANO-327	Aiman Bashir	Mössbauer spectroscopy investigation on biosynthesised nanoparticles	D1
13	NANO-415	Paul Ejikeme	Green synthesis, characterization, anti-oxidant, anti-microbial, catalytic and electrochemical properties of silver nanoparticles using aqueous extract of Hura crepitans leaves	D1

14	NANO-163	MS Hlobile Kgomo	Fabrication and Characterization of Electrospun Nanofibre from the African Wild Silkworm <i>Argema mimosae</i> Silk Fibroin	D1
15	NANO-150	Miranda Ndipingwi	High Power Li-ion Capacitor Electrodes Based on Nanoporous Vanadia/Hydroxylated Graphene Nanocomposites	D1

<b>T. No</b>	<b>Abstract No</b>	<b>Delegate Names</b>	<b>Title of the submitted abstracts for poster</b>	<b>Order of Days</b>
1	NANO-297	Ben van der Westhuizen	Biocompatible polymer nano-brush surface addition to Poly(ethylene terephthalate) for the cultivation of phototrophic micro-organisms.	D2
2	NANO-219	Lehlohonolo Mphuthi	Metal exchange in nano-ZIF-8 and ZIF-67 with Fe (II) transition metal for heterogeneous catalytic application	D2
3	NANO-176	Thandi Elinah Mazibuko	Silicon Carbide as a diffusion barrier against transition metal contamination in silicon based solar cells	D2
4	NANO-369	Naledi Raleie	Optical, Electrical and Photoelectrochemical Properties of Stannum-based Nanoparticles and their Application to Solar Cells	D2
5	NANO-169	Lynndle Square	Opto-electronic properties of anodized TiO <sub>2</sub> nanotube arrays investigated using electron energy loss spectroscopy	D2
6	NANO-331	Okoroike Celestine Ozoemena	Onion-like Carbon-Polyacrylonitrile Nanofibre (OLC-PAN)-Based Electrochemical Sensors for the Detection of Dopamine in Samples	D2
7	NANO-247	Tshegofatso Modungwe	Synthesis, Characterization and Mechanoluminescence properties of ZnS:Mn	D2
8	NANO-113	Rajasegaran Elumalai	Spermidine-carboxymethyl cellulose polyelectrolyte multilayered microcapsules: A bio-vehicle for anticancer drug delivery	D2
9	NANO-180	T Tshifhiwa Steven Ranwaha	DFT study on the Adsorption of Azo-Dye molecules on 010 And 100 Anatase TiO <sub>2</sub>	D2
10	NANO-411	S. Dube	Structural and optical effect of l-arginine growth on hematite films prepared by thermal spray pyrolysis	D2
11	NANO-2	I.G. Madiba	Deep-space radiations like hardness of VO <sub>2</sub> based active smart radiation device for nanosatellites applications	D2
12	NANO-232	Lovasoia Christine RAZANAMAHANDRY	Review for Bio-inspired Nanoscaled Technologies Application for Treating Heavy Metals Removal in Waste Water Mining Industry	D2
13	NANO-423	Bveledzani Makhado	Early transition metal carbides-carbon multiwall-biopolymer nanocomposites in the application of hydrostatic Pressure Sensor	D2

14	NANO-347	Seroto Mmanoko	Removal of HIV and AIDS related drugs from environmental wastewaters using protein/PVA nanofibers	D2
15	NANO-421	James Ramontja	Quaternized poly (2.6 dimethyl – 1.4 phenylene oxide)/Polysulfone anion exchange membrane reinforced with graphene oxide for methanol alkaline fuel cell application	D2

<b>T. No</b>	<b>Abstract No</b>	<b>Delegate Names</b>	<b>Title of the submitted abstracts for poster</b>	<b>Order of Days</b>
1	NANO-354	Pankaj Mohanty	Cationic Site Substitution Effect on Magnetic Properties of $(\text{Ni}_{0.5}\text{Co}_{0.5})(\text{Cr}_{0.75}\text{Fe}_{0.25})_2\text{O}_4$ Nanoparticles	D3
2	NANO-346	Mmathapelo Mphelane	Effects of annealing temperature on the morphology, structure and luminescence properties of $\text{Zn}_{0.5}\text{Ca}_{0.5}\text{Al}_2\text{O}_4:0.1\%\text{Ce}^{3+}$ nanophosphor prepared by citrate sol-gel process	D3
3	NANO-372	Rebecca Mhlongo	The effect of $\text{Nd}^{3+}$ concentration on the structure, morphology and photoluminescence properties of sol gel prepared $\text{Sr}_3\text{ZnAl}_2\text{O}_7:0.1\%\text{Ce}^{3+}, x\%\text{Nd}^{3+}$ ( $0 \leq x \leq 2$ ) nanophosphor	D3
4	NANO-371	Mauritz Pretorius	Electrospinning of chitosan/PLA based nanocomposite fibre mats reinforced with chitin nanowhiskers for wound dressing applications	D3
5	NANO-162	Marica Smit	Polymer-coated magnetic nanoparticles for the treatment of Mycobacterium tuberculosis (Mtb)	D3
6	NANO-358	Heino Pesch	Modification and incorporation of chitosan nanoparticles into polymer matrices	D3
7	NANO-69	Michael Musembi	Solution combustion synthesis and characterisation of $\text{Dy}^{3+}$ -doped zinc zirconate nanocomposite	D3
8	NANO-325	Chih Wei Tsai	Zeolitic Imidazolate Framework nanomaterial with functional groups for $\text{CO}_2$ adsorption	D3
9	NANO-165	Muzi Mavundla	Gamma Radiolysis Assisted Deposition of Metallic and Metal Oxide Nanoparticles on Nickel Foam for Solar Energy Conversion Applications	D3
10	NANO-182	Muhammad Humza Javed	Green Synthesis of Ag Nanoparticles from aqueous extracts of Avocado Seeds and Studying the Effects of Different Parameters on the Dynamics of the Process	D3
11	NANO-229	Nagla Numan	Nanoscaled vanadium dioxide thin films on exible Al foil for exible active tunable emissivity smart coatings	D3
12	NANO-104	Mbambo Makhangela	Fabrication of Au nanoparticles decorated graphene nanosheets based nanofluid by Pulsed Laser Ablation in Ethylene Glycol	D3

13	NANO-367	Joshua Khoele	Study of structural properties in InGaN and InAlN thin films due to Cu <sup>+</sup> and Er <sup>+</sup> ion irradiation	D3
14	NANO-350	Mofuti Mehlope	Atomistic Simulation Study of the Structural and Dynamical Properties of Metal Sulphides Nanostructured Materials.	D3
15	NANO-427	Goitsione Emily Olifant	Synthesis of TiO <sub>2</sub> supported on mesoporous silica and carbon nano particle polymer composites and their application for the detection of ethanol and methanol	D3

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1	NANO-98	Noluthando Mayedwa	Structural, Optical and Electrochemical properties of Ternary ZnCdO nano powder synthesized by green natural extracts of Hibiscus Rosa Sinensis	D4
2	NANO-175	Takalani Cele	Synthesis of Rhodium Nanoparticles by Gamma radiolysis	D4
3	NANO-58	Touria Khamliche	Ultrafast Laser Ablation Assisted Fabrication of Silver Nanoparticles in Ethylene Glycol Based Nanofuild	D4
4	NANO-107	Sipokazi Panya panya	Laser-Induced Breakdown Spectroscopy (LIBS) on Geological Samples: Relative Hardness Quantification	D4
5	NANO-39	Noluthnado Kana	tability and thermal conductivity of CuO nanowire for catalytic applications	D4
6	NANO-168	Floyd Lionel Mabiala	Pb-Sn binary perovskite solar cells by chemical vapor deposition	D4
7	NANO-96	Bhekumuzi Sfungo Khanyile	The effects of the bottom layer thickness on structural and the optical properties of the VO <sub>2</sub> thin films deposited by electron beam evaporation	D4
8	NANO-95	Aphiwe Matiwane	Monochromation and apodization with Ti-B4C multilayers in neutron optics	D4
9	NANO-11	Nolubabalo Matinise	Superficial synthesis of magnetic iron oxide/ graphene nanocomposites using Moringa oleifera natural extrct extract waste and enhanced their photocatalytic degradation of methylene blue dye	D4
10	NANO-252	Ahmed Saba Abdullahi	Simulation, Processing and Characherization of Al <sub>2</sub> O <sub>3</sub> /Zr/ Al <sub>2</sub> O <sub>3</sub> Selective Solar Absorber for Solar Thermal Application	D4
11	NANO-223	Aline Simo	Electron Beam Deposition of Sandwich-Structured V <sub>2</sub> O <sub>5</sub> /M/V <sub>2</sub> O <sub>5</sub> Multilayers for High Thermochromic VO <sub>2</sub> Thin Films	D4
12	NANO-261	SIHAM Al- Qaradawi	Enhanced Photocatalytic Activity of WON/ TiO <sub>2</sub> Nanofibers Heterojunction towards Photocatalytic Degradation of Organic Dyes	D4

13	NANO-308	Olakunle Oluwaleye	Modification of RF – magnetron sputter deposited Zinc Oxide thin films by Vanadium ion implantation: Electrical and optical properties	D4
14	NANO-188	Grace Ngubeni	Metal chloride based synthesis and characterisation of $\text{Cu}_2\text{ZnSnS}_4$ and $\text{Cu}_2\text{ZnSnSe}_4$ nanocrystals	D4