

4th African Conference/Workshop on Applications of nanotechnology

University of Nigeria Nsukka, July 18 – 23, 2021

PROGRAMME OF EVENT

SUNDAY, JULY 18, 2021

16:00-18:00 Arrival of Delegates/Participants

MONDAY, JULY 19, 2021

OPENING CEREMONY

VIRTUAL/ZOOM LINK: Join Zoom Meeting

<https://unn-edu-ng.zoom.us/j/91404598033?pwd=V1laSGJNdmdqcE9LUkowclBkd0VhZz09>

Meeting ID: 914 0459 8033

Passcode: nano

08:00-09:00 Arrival to venue and Registration of the participants
09:00-10:00 Courtesy visit to the Vice Chancellor, University of Nigeria Prof C.A. Igwe, /Touring of the Labs
10:00-10:15 Introduction of guests by Master of Ceremony, Prof Paul M. Ejikeme
10:15-10:20 Opening Prayer/National Anthems
10:20-10:30 Opening remark by the Chairman/Address by the chairman – Arc (Dr) Edward Nkwegu
10:30-10:40 Other Opening remark
10:40-11:30 Welcome Address by Prof C.A. Igwe, the Vice-Chancellor, University of Nigeria
Speech by Special guest of honor her Excellency, Betty Anyanwu-Akeredolu
Speech by Engr (Dr) Emeka Okwuosa, CEO Oilserv
Speech by Jonathon Brame, Team Lead for Basic & Applied Research (BAR)
Speech by CEO/MD E-Terra Technologies
11:30-12:20 Keynote lecture by Prof Wole Soboyejo, Senior Vice President and Provost, WPI, USA
12:20-12:30 Speech and declaration of the opening of the conference by chief guest of honor, the Hon.
Minister of Science and Technology, Dr Ogbonnaya onu
12.30-13.00 Group Photograph/Tea Break
13:10-13:40 Lecture I: Prof Emmanuel Iwuoha, University of Western Cape, Cape Town, South Africa
13:40-14:20 Lecture II Prof Clara Santato, École Polytechnique de Montréal, Canada
14:20-15:00 Lecture III Prof. Kenneth Ozoemena, University of the Witwatersrand (Wits). South Africa
15.00-16.30 Lunch
16:30-17:00 Lecture IV Prof M.Maaza, University of South Africa
17:00-17:10 Closing Remarks by Prof P.E. Ugwuoke
17:10-17:20 Vote of thanks by Prof Anthony A. Attama
17:20-17:50 Group Photograph
17:50-18:00 Closing

19:00-20:00 **COCKTAIL PARTY**

TUESDAY, JULY 20, 2021

PLENARY SESSION (1)

VIRTUAL/ZOOM LINK: oin Zoom Meeting

<https://unn-edu-ng.zoom.us/j/93984668902?pwd=aVFaSFI0dIBJT2ZKTGdKckFUUjUzZ09>

Meeting ID: 939 8466 8902

Passcode: nano

Moderators: Prof Paul Ejikeme and Prof Paul Asogwa

TIME	AUTHOR(S)	TITLE
08.30 – 09.00	O.A. Arotiba ^{a,b} , N. Mabuba ^{a,b} , D Nkosi ^a	Nanomaterials in Electrochemical Water Treatment and Sensor Technologies
09.00 – 09.30	Ishaq Ahmad ^{1,7,8*} , Muhammad Usman ¹ , Sara Qayum ² , Jun Luo ³ , Arshad Mahmood ⁴ , Javed Iqbal ⁵ , Abdoulaye Diallo ^{6,7,8} , Fabian IfeanyichukwuEzema ^{7,8,9} , Maaza Malik ^{7,8}	Ions Irradiation Induced Defects Engineering in nanomaterials
09.30 – 10.00	Rajan Jose	Materials Sustainability through Renewable Materials
10.00 – 10.30	Justus C. Ndukaife	There is plenty of room for optical nanotweezers in biology and medicine
10.30 – 11.00	E. E. Oguzie	Nanoscale interrogation of chloride-induced passivity breakdown
11.00 – 11.30	BREAK	
11.30 – 12.00	Hendry Izaac Elim ¹⁻⁶	A Review of Eternal Energy based Gravity Versus Renewable Energy: Theory & Prototype Design for Sustaining Nanotechnology Energy Supply
12.00 – 12.30	¹ V. Balasubramanian, ² S. Kannan, ³ V. Balasundaram ¹ , J. Henry, ¹ T. Daniel, ¹ K. Mohanraj and ³ G. Sivakumar	PEC performance of Zn doped CuNb ₂ O ₆ photocathode prepared by solid state route
12.30 – 13.00	E. Manikandan ^{1,8-9} , G. Kavitha ^{2, 8-9*} , M. K Moodley ^{3, 8-9} , B. W. Mwakikunga ^{4, 9-11} , Fabian Ezema ⁵ , Siva Umopathy ⁶ , Rasiah Ladchumananandasivam ⁷ , M. Maaza ⁸⁻⁹	PLD Processed Ultrananocrystalline Diamond-like Carbon (UN-DLC) Assembled on Epitaxial ZnO Film Investigation by SIMS Raman Rutherford Spectroscopic Fingerprint Techniques
13.00 – 13.30	DARE, ENOCK OLUGBENGA	new frontier in fluorescently labeled nanomaterials in security and forensic: perspectives from fingerprinting to anti-counterfeiting
13.30 – 14.00	M.V. Reddy	Novel Electrode Materials for Energy Storage
14.00 – 14.30	Chibueze V. Amanchukwu	Controlling electrolyte molecular structure and ion solvation effects for lithium metal batteries
14.30 – 15.00	BREAK	
15.00 – 15.30	F. J. Stadler, A. Kumar, G. Sharma,	Synthesis and Characterization of Z-scheme photocatalysts for degradation of pharmaceutical waste
15.30 – 16.00	Damian C. Onwudiwe	Phase controlled synthesis of copper sulphide nanocrystals by solvothermal method, and their photocatalytic properties
16.00 – 16.30	Mesfin Kebede ¹	
16.30 – 17.00	Oussama Moutanabbir	3-D D Atom-by-Atom Mapping of Nanoscale Materials

WEDNSDAY, JULY 21, 2021

PLENARY SESSION (2)

VIRTUAL/ZOOM LINK: Join Zoom Meeting

<https://unn-edu-ng.zoom.us/j/97418205183?pwd=Wld4SmZuaUIQR0psTXhuVTFoOUNxUT09>

Meeting ID: 974 1820 5183

Passcode: nano

Moderator: Prof Rose Osuji and Prof P.E. Ugwuoke

08.30 – 09.00	K. Kaviyarasu & M. Maaza	Nickel oxide thin films as electrochromic layer for smart window applications
09.00 – 09.30	Rajaram S. Mane, Prof.	Potential Applications of Solution-processed Nanostructures
09.30 – 10.00	R. Prasada Rao	Molecular dynamics Simulation and transport transport pathways calculations of energy storage materials
10.00 – 10.30	T. Khamliche ^{a,b,e}	Synthesis and thermal conductivity enhancement of silver nanoparticles dispersed ethylene glycol based nanofluid using ultrafast laser ablation.
10.30 – 11.00	Kingsley Onyebuchi Obodo ¹	Density functional theory calculation of Ti ₃ C ₂ MXene monolayer as catalytic support for platinum towards the dehydrogenation of methylcyclohexane
11.00 – 11.30	BREAK	
11.30 – 12.00	S. Khamlich ^{a,b,c,*} , T. Khamliche ^{a,b,e,*} , M.K. Moodley ^d , B.M. Mothudi ^e , M. Heninj ^{a,b,f} , M. Maaza ^{a,b}	Laser Fabrication of Nanofluids with Enhanced Thermal Conductivity: Molecular Dynamics Simulation and Experimental Verifications
12.00 – 13.00	BREAK	
13:00 – 14:20	PARALLEL SESSIONS (1)	

TECHNICAL/PARALLEL SESSIONS (1)

TIME	SESSION 1	SESSION 2	SESSION 3	SESSION 4
Zoom Link	Join Zoom Meeting https://unn-edu-ng.zoom.us/j/95186018780?pwd=OGVpa1hySnplYW0wVUR0blNLbDRrOT09 Meeting ID: 951 8601 8780 Passcode: 020848	Join Zoom Meeting https://unn-edu-ng.zoom.us/j/91265958685?pwd=NOR4YTY4aGk5ZXNLRk1SVk5BTUxJZz09 Meeting ID: 912 6595 8685 Passcode: 842051	Join Zoom Meeting https://unn-edu-ng.zoom.us/j/99906924082?pwd=WlpBeWkrenBKVFNLcTFCjNjYnpaZz09 Meeting ID: 999 0692 4082 Passcode: 224548	Join Zoom Meeting https://unn-edu-ng.zoom.us/j/92251838419?pwd=RGZreFJ0NDFUSHhDVIRBSURLSDU2dz09 Meeting ID: 922 5183 8419 Passcode: 458571
Moderator	Dr Samson Aisida	Dr Chinwe Nwanya	Dr. Cynthia Ibeto	Dr. Franklin Kenechukwu
13.00 – 13.10	INV 001 Aderemi Haruna Microwave irradiation suppresses Jahn-Teller lattice distortion in spinel LiMn ₂ O ₄ cathode material for lithium-ion batteries	INV 002 Arshad Mahmood1, Attaullah shah1, Uzma Aziz1, Ishaq Ahmed1 Optical and Structural properties of diluted magnetic semiconductors by implanting Cu ⁺ ions in Al-Nitride thin films	INV 004 G. G Welegergsa, b, c * , H.G.Gebretisae a, b, d,,M.G.Tsegaya, b, d, J.Sackey a, b,Z.Y.Nurua, b, d,, S.Dubee, M.Maaza a, b Biosynthesis of Papaver Somniferum Mediated CdO Nanoparticles	HLT 01 Chukwuma O. Agubata, Ifeanyi T. Nzekwe, Anthony A. Attama, Formulation, characterization and anti-malarial activity of artemether microparticles based on a plant-derived lipid
13.10 – 13.20	INV 005 Hamza Elsayed Ahmed Mohamed 1-2 Enhanced optical properties of bio-inspired nanoscaled La ₂ O ₃ via Hyphaene thebaica extract	INV 006 I. Ngoma,b,c Natural extracts from different parts of Moringa oleifera mediated the green synthesis of tetragonal zirconia nanoparticles	INV 08 Jonathon Brame The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset	HLT 03 D. P. Berebon, S.A. Evurani, C.O. Eze, D. C. Okechukwu, T.H. Gugu., P.N. Onyi, I.A. Onah, C.C. Eze, R. C. Onwusoba, C.N. Ugwu, E.N. Ezeibe, C.C. Eze.

				In vitro studies on survivability potentials of probiotics isolated from some nigerian traditional nutraceuticals
13.20 – 13.30	INV 009 J. Sackey,*a,b,c,R. Morad,a,b,M. Akbari,a,b,A.K.H. Bashir,a,b,A. Gibaud,a,d M. Maazaa, b Effects of metallic ions on the structure of vaterite micro-particles: Experimental and DFT Calculations	INV 010 Kaningini Amani Gabriel1,2,Shohreh Azizi1,2, MudauFathuwani Nixwel3, Keletso Cecilia Mohale3, Kagiso Mokalane4, Hlengilizwe Nyoni4, Malik Maaza1,2 Green synthesis and characterization of ZnO nanoparticles using bush tea (AthraxiaphylicoidesDC) natural extract: assessment of the synthesis process	INV 012 Amal Georgea, A. Dhayal Raja, A. Albert Irudayaraja, R. L. Josephineb, S. John Sundarama,M. Maazac,d, K. Kaviyarasuc,d* Impact of synthesis method on basic properties of nickel vanadium oxide nanomaterials as applicable to solar cells	HLT 05 F. J. Stadler, A. Kumar, G. Sharma, Synthesis and Characterization of Z-scheme photocatalysts for degradation of pharmaceutical waste
13.30 – 13.40	INV 015 NithyadharseniPalaniyan dy 2-Dimensional LiMn1.5Ni0.5O4 Nanoplates Cathode Material for High Rate and Stable Capacity Lithium-Ion Batteries	INV 018 C. Pospisil Mathematical Models for Living Forms in Medical Physics	INV 020 Dare, Enock O and Samson Alayande sustainable superoleophilic/superhydrophobic nanosorbent for water-crude oil separation and oil spill “clean-up”: a share of our inventive approach re-using discarded waste and nanostructured materials	HLT 08 Enechi Osmund Chukwuma, Okeke Emmanuel Sunday Inhibition of Phospholipase A ₂ , Platelet aggregation and Egg Albumin-Induced Rat Paw Oedema as Possible Mechanism for Anti-Inflammatory Effect of Flavonoid-Rich Extract of Peltophorumpterocarpum Stem-Bark
13.40 – 13.50	INV 027 UsisiphoFeleni Tin Telluride Quantum Dot- based Electro-oxidation of 17 α -Ethinlestradiol (EE)	INV 019 C. Pospisil Generalization Theory of Linear Algebra III	INV 030 M. Maaza1-2 From Indigenous Knowledge To Phytochemistry Towards To Nanotechnologies	HLT 12 JDN Ogbonna*, AC Echezona, CS Nwagwu, PA Akpa, A.A.Attama, K.C. Ofokansi Some natural polymers and their hybrids: rheological characterization
13.50 – 14.00	INV 031 Mahmood Akbari1,2, Razieh Morad1,2, Malik Maaza1,2 Effect of Silver Nanoparticle Size on Interaction with Artemisinin Drug: First Principle Study	INV 032 Clara Santato Towards biodegradable energy storage devices based on bio sourced materials	ENV 02 E.O. ECHEWEOZO Application of granite - kaolin nanocomposites as engineered barrier for liquid radioactive waste management	HLT 18 Restus C. Onwusoba, Ofokansi C. Kenneth, Dinebari P. Berebon, Ginika A. Nwaohabuenyi In vitro evaluation of the antimicrobial potential of leaf extracts of sida acutaagainst clinical pathogens.
14.00 – 14.10	ENG 001 Sana Abrar, Abdul Faheem Khan, Sajid Butt, Ishaq Ahmad Fabrication and characterization of multi-layer’s Cr/SnO ₂ /NiO/Cr thin films for metal-insulator-insulator-metal diodes (MIIM)	ENG 002 Ishaq Ahmad, Samson O. Aisida, F. I. Ezema, Ting-kai Zhao Ions Irradiation Induced Defects Engineering in nanomaterials	ENV 03 Chijioko Nwoye Eze, Innocent Okonkwo Ogbonna, Hideki Aoyagi, James Chukwuma Ogbonna, Claret Chiugo Aduba, and Amechi Lydia Ogara Application of granite - kaolin nanocomposites as engineered barrier for liquid radioactive waste management	HLT 21 Tobechukwu Justice Ehirim and Kenneth I. Ozoemena Utilising onion-like carbon, single walled carbon nanotube- poly amino benzene sulphonic acid composite, (OLC, SWCNTs – PABSA/ CPE) for electrocatalytic detection of drugs of abuse
14.10 – 14.20	ENG 003 Aderemi B. Haruna, Kenneth I. Ozoemena Defect-Engineered β -MnO ₂ - δ Precursors Control the Structure-	ENG 004 Uzoma Ifeanyi ODUAH Colour Constancy Applying Spin Based Organic Photodiode	ENV 07 Kate E. Ochiagha, Nkiru C. Eboagu, and Obinna Ofoegbu Kinetic and equilibrium study of pyrolyzed nano-	HLT 24 Ikechukwu A. Onah, Dinebari P. Berebon, Emmanuel S. Onah, Onyinyechi F. Tonyonah, Franklin C. Kenechukwu,

Property Relationships in High-Voltage Spinel LiMn _{1.5} Ni _{0.5} O _{4-δ}		sized Coir and Groundnut shell as adsorbents for Pb ²⁺ and Cd ²⁺ in an aqueous medium.	Emmanuel C. Ibezim, Anthony A. Attama Combating vancomycin resistant Staphylococcus aureus (VRSA), extended β-lactamase (ESBL) producing Escherichia coli (E. coli) and Plasmodium falciparum (P. falciparum) using ethyl acetate extract of secondary metabolites of endophytic fungi isolated from the leaves and root of Annona senegalensis Pers
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THURSDAY, JULY 22, 2021

TECHNICAL/PARALLEL SESSIONS (2)

TIME	SESSION 1	SESSION 2	SESSION 3	SESSION 4
Zoom Link	Join Zoom Meeting https://unn-edu-ng.zoom.us/j/99459872568?pwd=Q1phRlVZTTT4a1BNcFRhSExCT05vdz09	Join Zoom Meeting https://unn-edu-ng.zoom.us/j/97803823143?pwd=WUhcSsybnRGRzVQc0RDWDZHTndWQT09	Join Zoom Meeting https://unn-edu-ng.zoom.us/j/98277859392?pwd=TF13LzVQZVptNXpYSU4reDRNRzBTZz09	Join Zoom Meeting https://unn-edu-ng.zoom.us/j/94547179989?pwd=dUFGRU1wcVVDL2dhbVNrOUNUb3ZoUT09
	Meeting ID: 994 5987 2568 Passcode: 295880	Meeting ID: 978 0382 3143 Passcode: 846686	Meeting ID: 982 7785 9392 Passcode: 507881	Meeting ID: 945 4717 9989 Passcode: 866116
Moderators	Dr Solomon Offiah	Dr A. Agbogu	Prof ABC Ekwealor	Prof K.I. Ozoemena
09.00 – 09.10	ENG 005 Adewale K. Ipadeola and K. I. Ozoemena Cleaned Composite Support in Pd/Ni Materials Enhances its Electrocatalytic Performance for Alkaline Ethanol Fuel Cells	ENG 006 Ahemen, I., Dejene, F.B., Reyes-Rojas, A. and Chahul, H.F. Investigation of Luminescence and Laser properties of Dy ³⁺ -doped Ba-ZrO ₂ nanocrystals	Env 09 M.n. okwoigwe, p.o. ukoha, e.e. chinyere Facile detoxification of aqueous stream bearing polycyclic aromatic hydrocarbons using nano chitosan-silica composite.	HLT 28 Akpa, P. A., Edeh, C. L Franklin C. Kenechukwu , Aadaeze C.Echezona and Momoh, M.A Sustained release formulation of diclofenac sodium based on solid dispersion
09.10 – 09.20	ENG 007 C.C. Ahia, N. Tile, E. L. Meyer, J. R. Botha Investigation of strain distribution and optical properties of atmospheric pressure grown GaSb/GaAs quantum dots for photovoltaic application	ENG 008 Akeredolu B.J, Amah A.N, Ahemen Iorkaya, Jyoti Shakya, Gayathri H.N& Arindam Ghosh Exfoliation of 2D Graphene-MoS ₂ hybrid nanosheets via laser- liquid phase exfoliation	ENV 10 MehrnoushNakhaei and DavoudSanavi Khoshnoud The effect of dyfeo ₃ nanoparticles on bleaching of industrial pollutants	AGC 02 G. N. Onwubiko Combining ability analysis of 12 maize varieties (zea mays l) using diallel mating design.
09.20 – 09.30	ENG 009 Wara Naseer, J. M. Ashfaq, M. Shafiq Ahmed, Muhammad Saleem, Muhammad Faisal Structural and Optical properties of Cadmium Doped Zinc Oxide nanoparticles.	ENG 010 Chibueze V. Amanchukwu Controlling electrolyte molecular structure and ion solvation effects for lithium metal batteries	ENV 11 Nwaka, B.U. Mba, D.O. Nnamani, U.H. 3Ononugbo, C.P. Radiation Hazard Effects from Radionuclides ²²⁶ Ra, ²³² Th, ⁴⁰ K in Salt locally produced from Salt Lakes in Ebonyi State, Nigeria	AGC 05 Victory Ogene, David C. Ike, Peter O.Onuwa, Augustina Ijeomah, Obinna Ofoegbu, Roognapa S. Srichana and Gaber El-Saber Batiha Comparative preparation and characterization of starch nanoparticles from cocoyam and two water yam starch

				varieties by combined solid-state acid-catalysed hydrolysis and nano precipitation.
09.30 – 09.40	<p>ENG 012 Emmanuel I. Iwuoha</p> <p>Engineering Functional Materials for Electroenergetics and Electrochemiluminescence</p>	<p>ENG 013 E. Manikandan, G. Kavitha, M. K Moodley, B. W. Mwakikunga, Fabian Ezema, Siva Umopathy, Rasiah Ladchumananandasivam, M. Maaza</p> <p>PLD Processed Ultrananocrystalline Diamond-like Carbon (UN-DLC) Assembled on Epitaxial ZnO Film Investigation by SIMS Raman Rutherford Spectroscopic Fingerprint Techniques</p>	<p>ENV 13 Okeke, Polycarp C., Edeh, Ifeoma C., Ugokwe, Collins U., Okeke, JanefrancesC., Ezewudo, Bede I.</p> <p>Production and Utilization of Microalgae in Water Quality Monitoring and Bioremediation as Bio-flocculants in Wastewater Treatment</p>	<p>AGC 07 Nduka Florence Obiageli, Ugwuanyi Maximus C, Nwigwe Juliet O, NwodoOkwesili Fred C</p> <p>Utilization of agricultural wastes-substrate: as consortia to bioremediating cyanide pollutedsoil.</p>
09.40 – 09.50	<p>ENG 016 Augustus K. Lebechi and Kenneth I. Ozoemena</p> <p>Manganese oxide carbon nano-composite materials as bifunctional electrocatalysts for oxygen reduction reaction and oxygen evolution reactions in rechargeable zinc air battery.</p>	<p>ENG 017 Blessing Ezealigo</p> <p>Phase evolution of barium titanate ceramics synthesized by solid-state combustion method</p>	<p>ENV 14 H.O. Oluwasola, P.M. Ejikeme, N.L. Obasi, A. Ahmed, N.M. Gaila, M.K. David, M.C. Mbaeze, A. H. Fombu, J.E. Akor, D. Terhemba, and K.O. Ominyi</p> <p>Current Trends in the Synthesis of Nanocomposite materials for Brackish Water Desalination</p>	<p>AGC 04 Agatha Orbija, David C. Ike, Augustina Ijeomah, Obinna Ofogebu, Roognapa S. Srichana and Gaber El-Saber Batiha</p> <p>Fabrication and characterization of starch nanoparticles from two varieties of yam (angie and anturan) by alkali hydrolysis aided ultra-sonication process for pharmaceutical application</p>
09.50 – 10.00	<p>ENG 020 DhanajiMalavekar, C. D. Lokhande</p> <p>Synthesis of NiWO₄ thin films using SILAR method for electrocatalytic oxygen evolution reaction.</p>	<p>ENG 027 S U Offiah, S N Agbo, C G Ezema1, P E Ugwuoke, A B C Ekwealor and F I</p> <p>EzemaInfluence of Aluminum dopants on ZnO nanoparticles for natural dye sensitized solar cells' applications</p>	<p>ENV 15 RAJI, M.F</p> <p>Toxicity effects of glyphosate in the african clarid catfish</p>	<p>AGC 06 Kar, S.T., Fayomi, O.M., Ike, D.C. Onuwa, P.O. and Ofoegbu O</p> <p>Chelation of prepared nano-starch material from two wild varieties of tuber crops (anumbekyo and gbache) with copper (ii) and iron (iii) for application in agriculture.</p>
10.00 – 10.10	<p>ENG 031 V. Balasubramanian, S. Kannan, V. Balasundaram J. Henry, T. Daniel, K. Mohanraj and G. Sivakumar</p> <p>PEC performance of Zn doped CuNb₂O₆ photocathode prepared by solid state route</p>	<p>ENG 032 S. S. Kumbhar, S. B. Bhosale, V. V. Patil, C. D. Lokhande, J. L. Gunjkar, U. M. Patil</p> <p>A chemical bath synthesis of Co₂V₂O₇ thin film for supercapacitor application</p>	<p>ENV 16 E.Y. Shaba, J. O., Jacob, J. O., Tijani and M.A.T., Suleiman</p> <p>The role of zinc oxide nanoparticle/polivynl nano-composite as a high performance adsorbent for removal of heavy metals from petrochemical wastewater</p>	<p>AGC 08 Onyekwelu, C.N.</p> <p>Physicochemical and sensory properties of cassava semolina fortified with african yam bean</p>
10.10 – 10.20	<p>ENG 033 Damian C. Onwudiwe</p> <p>Phase controlled synthesis of copper sulphide nanocrystals by solvothermal method, and their photocatalytic properties</p>	<p>ENG 036 I.G. Madiba</p> <p>Radiation-induced defects on pulsed laser deposited VO₂ thin films</p>	<p>ENV 17 Shohreh Azizi Shamila Rouhani, Malik Maaza</p> <p>Reuse of Grey water in rural area by Natural Polymeric Biofilter system</p>	<p>SMD 06 Abdul Jalil, S.Z.Ilyas, Sarfraz AhmedI, Ishaq Ahmad, Ting-kai Zhao, A. Dahshan, F. I. Ezema</p> <p>Prediction of Atomically Thin Two-Dimensional Single Monolayer with High Carrier Mobility : A DFT Study</p>
10.20 – 10.30	<p>ENG 039 Navajsharif S. Shaikh, V. C. Lokhand, TaeksooJi,</p>	<p>ENG 047</p>	<p>ENV 18 SJ Fyनेface, CS Obayi, PS Nnamchi</p>	<p>SMD 08</p>

	<p>PimsudaPansa-Ngat, Shivaji Ubaleb, Jasmin. S. Shaikh, SupareakPraserthdamd, PongsakornKanjanoos a Chandrakant D Lokhande,</p> <p>Design and development of hybrid supercapacitor</p>	<p>Obinna Ofoegbu, Roongnapa S. Srichana. and Prof Ian Nicholls</p> <p>Molecularly Imprinted Chitosan-based Thin Films with Selectivity for Nicotine Derivatives for application as a bio-sensor and filter.</p>	<p>Effect of Cattle Bone Powder Coating on Corrosion Behaviour of Austenitic Stainless Steel 316L in Simulated Body Fluid</p>	<p>S. Assa Aravindh, Wei Cao, Matti Alatalo, Marko Huttula, JukaKömi</p> <p>Stabilization and adsorption of CO₂ on Fe(111) surfaces in presence of h-BN</p>
10.30 – 10.40	<p>ENG 049 Raphael M. Obodoa, Sylvester .M. Mbam, IshaqAhmad, M. Maazad, and Fabian I. Ezema,</p> <p>Graphene Oxide (GO) Enhanced Co₃O₄/NiO Conductive Electrodes for Supercapacitive Devices Applications</p>	<p>ENG 053 S. C. ONUEGBU, AND S. S. OLUYAMO</p> <p>Magneto-optic properties of electrodeposited nano-structured zinc oxide (zno) and magnesium oxide (mgo) thin films for optoelectronic and spintronic applications</p>	<p>ENV 22 T. A. Nyjime, H. F. Chahul, A. M. Ayuba</p> <p>Theoretical Study of Corrosion Inhibition Activity of Thiadiazole Derivatives on Mild Steel</p>	<p>SMD 12 NN Nyangiwea,band CNM Oumac</p> <p>Density functional theory insights on the fate and behavior of engineered nanoparticles: Adsorption of natural organic matter on Ag surface surfaces</p>
10.40 – 10.50	<p>ENG 057 P. P. Bagwade, D. B. Malavekar, S. B. Kale, S. B. Ubale, U. M. Patil, C. D. Lokhande</p> <p>Fabrication of Solid State Symmetric supercapacitors based on Dy₂S₃ electrodes with enhanced electrochemical performance.</p>	<p>ENG 058 R. Morada, Z. Jamshidic, M. Akbaria, M. Maazaa,</p> <p>Theoretical investigation of mercury interaction with boron nitride surface</p>	<p>ENV 23 Kalu A.O , Egwim E.C. , Jigam A.A , Muhammed H. L.</p> <p>Mechanical and antimicrobial properties of optimised crosslinked-starch /grapheneoxide nanocomposite films for packaging applications.</p>	<p>SMD 04 H.I. Ikeri, A.I. Onyia, V.C. Onuabuchi</p> <p>Bandgap Engineering of the II-IV, III-V, and IV-VI Semiconductor Quantum Dots for Technological Applications</p>
10.50 – 11.00	<p>ENG 059 Ranjit P. Nikam, Vikas J. Mane, Sambhaji D. Khot, Shivaji B. Ubale, Dhanaji B. Malavekar, Priti P. Bagwade, and Chandrakant D. Lokhande</p> <p>Chemical synthesis of CdS/rGO composite thin films using SILAR method.</p>	<p>ENG 060 S. B. Bhosale, S. S. Kumbhar, V. V. Patil, C. D. Lokhande, U. M. Patil</p> <p>Chemical Synthesis of Nickel Vanadium Oxide Thin Film for Oxygen Evolution Reaction</p>	<p>ENV 24 Omolegbe R.O.; Olubiya, O.T.; Ajanlekoko A.F.; Dauda, I.A. ; Oludare, T.A.; Dare, E.O.</p> <p>Fluorophores labeled polyhedral oligomeric silsesquioxanes nanohybrids for covert type anti-counterfeiting on nigerian n1000 currency note</p>	<p>SMD 07 Muhammad Usman, Amna Siddiqui</p> <p>Investigating the reliability of PERC solar cells under particle irradiation through device simulations</p>
	<p>ENG 061 S. N. Pusawale</p> <p>Recent advances in Metal chalcogenide-based supercapacitor electrodes</p>	<p>ENG 062 Muhammad UmerIqbal, Sumayya, Muhammad UmerFarooq, Muhammad Yasir, Syed Irfan, NazakatAli, Muhammad Abdul Basit, Muhammad Aftab Akram, Sofia Javed, Abdul Faheem Khan, Fabian I. Ezema and Sajid Butt,</p> <p>Enhancement of Thermoelectric Power Factor in Cu-added Ca₃Co₄O₉ Ceramics Consolidated by Spark Plasma Sintering</p>	<p>ENG 078 Ernest O. Nachaki, Peter M. Ndagili Noah M. Naumih and Eric Masika</p> <p>Nickel-Palladium Nanoparticle-Based Electrochemical Sensor for Quantitative Detection of Formaldehyde</p>	<p>SMD010 Ige OO, Agomuo JC, Olalowo AF, Adoyi E, Anthony IM, Salisu KI, Ibeh GJ, and Agu MN</p> <p>Study of the fissioning characteristics of actinides considering softness and rigidity within a strictly optical model mechanism</p>
11.10 – 11.20	<p>ENG 063 S.D. Khot, S.B. Ubale,D.B. Malavekar, R.P. Nikam, V.J. Mane, S.B. Kale, P.P. Bagwade, C.D. Lokhande,</p> <p>Synthesis of dysprosium selenide (Dy₂Se₃) thin films by successive ionic</p>	<p>ENG 064 S.M.J Zubairu, S.O. Idris, C.E Gimba, A. Uzairu, B.R. Horrocks</p> <p>Nanoscale Growth of α-FeOOH nanoparticles on DNA Templates</p>	<p>ENG 083 Sandrine Kamdoun Noukelag, Franscius Cummings, Christopher J. Arendse and Malik Maaza</p> <p>Main physical properties of biosynthesized ZnO/Fe₂O₃,</p>	<p>PHC 01 A.Shah, Zulfiqar Ali, Razmat Ali, Qamar Zaman, Muhammad Abrar, U. Aziz and Arshad Mahmood</p> <p>Phase transformation of TiO₂ microspheres as a function of</p>

	layer adsorption and reaction (SILAR) method for supercapacitor application.		ZnO/ZnFe ₂ O ₄ , and ZnFe ₂ O ₄ nanoparticles	Sn doping with enhanced photocatalytic activity
11.20 – 11.30	ENG 067 Tariq Jan, S. Z. Ilyas, Ishaq Ahmad, F. I. Ezema Synthesis, Raman and Optical Properties of TM Ions Doped ZnONanocubes Prepared at Low Temperature	ENG 068 M.D. Tyona, S.B. Jambure, C.D. Lokhandec, A.G. Banpurkar, R.U. Osuji d, F.I. Ezema Rhodamine sensitized AL-doped ZnO photoelectrodes for dye-sensitized solar cells	ENG 082 Ismaila ZARMA, Mahmoud AHMED, Shinichi OOKAWARA, Daniel O. Experimental Study on Melting Development in CPV-NPCM Heat Sink System using Heat Flux Generated from Portable Solar Simulator -PEC L01.	PHC 04 A.K.H Bashira, J. Sackeya, K.Kaviyarasua, FI Ezema, M.Maazaa, Cr doped WO ₃ nanocubes enriched with surface oxygen vacancies for photocatalytic application
11.30 – 11.40	ENG 069 U.P. Ubuu, P.O. Ukoha, M.T. Bankole, J.N. Asegbeloyin, U.C. Odinaka S. Mustapha Synthesis and Characterization of Zirconium/Cobalt/Chromium Nanocomposite (Zr/Co/CrNC) for Electrochemical Detection	ENG 070 Vikas. J. Mane, Shital. B. Kale, Shivaji. B. Ubale, Ranjit P. Nikam, Chandrakant. D. Lokhande Enhanced Specific Energy of Silver Doped MnO ₂ /GO Electrodes as Facile Fabrication Symmetric Supercapacitor Device	BST 02 M. Bakayoko, B. D. Ngom, P. D. Tall, M. Maaza Physical Properties & Formation of Zinc Oxide Nano-scaled using Natural Extract from Dry Corn Husk (Zea Mays) via Green Chemistry Assisted by Spin Coating Technique	PHC 02 Muhammad Asjada, Muhammad Arshad, Naveed A. Zafar, M. Abdullah Khan, AzharIqbal, Abida Saleem, AfrahAldawsari An intriguing case of morphology control and phase transitions in TiO ₂ nanostructures with enhanced photocatalytic activity
11.40 – 11.50	ENG 071 V. V. Patil, A. S. Patil, S. S. Kumbhar, S. B. Bhosale, J. L. Gunjekar, C. D. Lokhande, U. M. Patil Binder free SILAR deposited amorphous cobalt phosphate as advance electrode material for supercapacitor application	ENG 074 J. Henry, T. Daniel, V. Balasubramanian, K. Mohanraj, and G. Sivakumar Fabrication of CdS free (Cu _{1-x} Ag _x) ₂ ZnSnSe ₄ thin films solar cells	BST 03 Chinyere, E.E. , Ukoha, P.O., Okwoigwe, M.N and Abugu H. Assessment of ligand - functionalized carbon membrane of the husk of <i>Arachis hypogaea L</i> for the uptake of aqueous stream bearing polychlorinated biphenyls	HLT 29 Ugwu KO, Ezema FI and Aisida SO Review of loop-mediated isothermal amplification (LAMP) technique in the diagnosis of the novel Coronavirus disease (Covid-19)
11.50 – 12.00				HLT 30 Enhanced microstructural, magneto-optical properties of Ni_xCo_{1-x}Fe₂O₄ ferrites nanoparticles suitable for hyperthermia applications

THURSDAY, JULY 22, 2021

POSTER SESSIONS/WORKSHOP

VIRTUAL/ZOOM LINK:

POSTER SESSION

ENERGY AND RELATED AREAS

ENG 014	AmadiChiedozieObiora, Austin Omah , Chinwe Nwanya	Silicated based cathode materials used in lithium ion battery
ENG 018	Calister N Eze, Athony. I. Onyia and Mishark. N. Nnabuchi	Chemically Deposited Doped Titanate Ternary Metal Oxide Thin Films Via Spray Pyrolysis Route- Preparation, Characterization and Solar Cell Application Analysis.
ENG 021	Faith Ukamaka Ochai-Ejeha Imosobomeh L. Ikhioya Emekaifeanyi Alexaand Ernest OchaiEjeh	Optical, structural and electrical properties of Zr doped CoSe for photovoltaic application.
ENG 023	George Daniel T. and P. U. Asogwa.	Effect of surfactants on the morphological, structural and Optical properties of Zinc Oxide
ENG 026	P.O. Ike, K.K. Agwu, Fabian I. Ezema	Structural, optical, thermal and thermoluminescence response of rare earth activated aluminium borate phosphor
ENG 029	Jimodo J. Ogada, Adewale K. Ipadeola, Hamish Miller, Francesco Vizza, Daniel Wamwangi, Kenneth I. Ozoemena	Palladium-based Carbon and Ceria Nanocomposites for Alkaline Direct Ethanol Fuel Cells
ENG 034	M.I. Nwachukwu, A.C. Nwanya, F.I. Ezema	Nanostructured Mn-doped CeO ₂ thin films with enhanced electrochemical properties for supercapacitor applications
ENG 037	Mee, A. Ujo, Anikpa, O. Patrick, Malavekar, B. Dhanaji, NwanyaAssumpta Chinwe, Osuji, U. Rose, Lokhande, D. Chodankar,Ezema, I. Fabian	Synthesis of Ce ₂ S ₃ @MWCNTs nanocomposite supercapacitor electrode
ENG 041	Nsude E.H, NsudeK.U, Raphael M. Obodo, Ikyioya I. L, Asogwa P.U, M. Maaza, and Fabian I. Ezema	Binder-free CuFeS ₂ electrodes synthesized via silar method for supercapacitor application
ENG 043	M.O. Nwodo, S.U. Offiah, F.I. Ezema	Modification of Morphological and Optical Properties Induced by Annealing of NiO Thin Films Synthesized by cbd Technique
ENG 045	Ernest I. Obeta, B. A. Ezekoye, F.I. Ezema	Synthesis and characterization of bismuth sulphide thin films by chemical bath deposition method
ENG 048	Obitte, B.C.N, Ikhioya, I.L, Ezekoye, B.A, Ekwealor A.B.C, Maaza, M, Ezema, F.I	The effects of doping and temperature on the properties of electrochemically deposited Er ³⁺ doped ZnSe thin films
ENG 052	R.O. Okoro and C. Augustine	Fe ₂ O ₃ /Cu ₂ S core-shell thin films: effect of annealing temperature on microstructural, optical and solid state properties
ENG 055	P. O. Offor, G. M. Whyte, F. G. Whyte, S. N. Ude, A. D. Omah, M. N. Eke, C. C. Daniel-Mkpume, P. S. Nnamchi, C. S. Obayi, I. Y. Suleiman, U. C. Ogbuefi, C. P. Ohanu, B. A. Okorie, F. I. Ezema	Features of spray-made Lithium-doped Zinc sulphide thin films
ENG 065	Sylvester M. Mbam, Raphael M. Obodo, Oliver O. Apeh, Assumpta C. Nwanya, A. B. C. Ekwealor and Fabian I. Ezema	Electrochemical Performances of Graphene Oxide/Bismuth Oxide and Reduced Graphene Oxide/Bismuth Oxide Composites for Applications in Supercapacitor Electrodes
ENG 072	R. A. Akwolu, S. U. O ffiah, A.Agbaogu. P. E.Ugwoke	Optical properties of some extracted natural dyes intended to be used as essential constituent in dye sensitized solar cell (DSSC) fabrication.
ENG 075	JADVY KOUKA, YUNUS KIPPIE , MALIK MAAZA	The effect of silver nanowires on the thermophysical properties enhancement of the mixture molten salt
ENG 077	R.T. Ngongang, E.U. Onoh, A. C. Nwanya, M.T A. Ottou, B. Atawa, E, J.M.B Ndjaka, Fabian I. Ezema	Dielectric properties of Gelatin/ CaCu ₃ Ti ₄ O ₁₂ nanocrystal composite thick films.

ENG 080	Uzochi S. Onyekwere, Celestine N. Achebe, Stephen C. Nwanya	Feasibility studies on production of lithium-ion battery in Nigeria
ENG 084	P.O. ISI, A.J. EKPUNOBI, D.N. OKOLI	A comparative study of Optical and Electrical properties of fabricated dye sensitized solar cells extracted from Kola nut using deionized water and ethanol
ENG 015	Leonard I Asogwa, Nsude Kingsley, Agnes C. Nkele, Raphael M. Obodo, Solomon Offiaha, V.A Ezekoye and Fabian I. Ezema	Synthesis, Characterization and Comparative Study of Caesium Doped Titanium Dioxide and Caesium Doped Methyl Ammonium Lead Iodide Perovskite
ENG 019	Calister N Eze, Anthony. I. Onyia and Mishark. N. Nnabuchi	Synthesis and Characterization of Chemically Deposited Doped Stannate Ternary Metal oxide Thin Films and their Solar Energy Applications
ENG 022	Matthew D.Femi , Aboritoli Sunday and Suleyman M,Kabiru	Optical Study of CdO thin films deposited by SILAR Method for photosynthetic Applications.
ENG 024	Ichu B. C., Okonkwo F.C., Onochojah U., and Uwakwe E.	Beneficiation scheme of nigerian lithium-bearing ore to produce lithium carbonate for lithium-ion batteries
ENG 028	Innocent C. Nwodoa, Agnes C. Nkele, Princess C. Ania, Raphael M. Obodoa, Malik Maazab,c, Fabian I. Ezema	Investigating the properties of nickel phosphate nanoparticles synthesized by co-precipitation method
ENG 030	Jude N. Udeh, Agnes C. Nkele, Raphael M. Obodo, Malik Maaza, Fabian I. Ezema	Investigating the properties of cobalt phosphate nanoparticles synthesized by co-precipitation method
ENG 035	M.I. Nwachukwu, A.C. Nwanya, F.I. Ezema	Mn and Fe-rich cathode materials used in li-ion batteries
ENG 040	Agnes Chinecherem Nkele, Assumpta C Nwanya, A.B.C. Ekwealor, Malik Maazab, Fabian I., Ezemaa	Structural, Optical, and Electrochemical Properties of SILAR-deposited Zirconium-doped Cadmium Oxide Thin films
ENG 042	Emmanuel.O. Onah, S.U. Offiaha, U.K. Chime, G.M. Whyte, Raphael.M. Obodo, O.V. Ekechukwu, IshaqAhmad, P.E. Ugwuoke, Fabian.I. Ezema	Comparative photo-response performances of dye sensitized solar cells using dyes from selected plants
ENG 044	Nzereogu P. U., Dr. Omah A. D., Dr. Nwanya A. C.	A review of anode materials for lithium-ion batteries
ENG 046	Ernest I. Obetta, B. A. Ezekoye, C. Nwanya, F.I. Ezema	Effect of deposition time on the structural, morphological and optical properties of bismuth sulphide thin films deposited by SILAR method
ENG 050	Ijabor B. Okeoghene, Osolobri B. Uyoyou, and Imosobomeh L. Ikhioya	The Influence of Gamma Radiation ⁶⁰ Co On CoSe/Ag Nanostructures Material Deposited Via Electrochemical Deposition Technique.
ENG 051	Okoli, N. L., Ezenwaka, L. N., Okereke, N. A., Ezenwa, I. A. and Nwori, N. A.	Properties of deposition time optimized cobalt doped copper selenide thin formed by electrosynthesis approach
ENG 056	P. O. Anikpa, D. B. Malavekar, A.C. Nwanya, R. U. Osuji , C. D. Lokhande, and Fabian I. Ezema.	A Comparative study of tungsten trioxide @ multiwalled carbon nanotubes and tungsten trioxide @ reduced graphene oxide as electrodes for a supercapacitor as a storage device.
ENG 066	Sylvester M. Mbam, Raphael M. Obodo, Oliver O. Apeh, Assumpta C. Nwanya, A. B. C. Ekwealor and Fabian I. Ezema	Synthesis And Characterizations of Graphene Oxide and Reduced Graphene Oxide Using the Modified Hummer's Method
ENG 073	Rameez Zafar, Syed M. AwaisMoien Raza, Abdul Faheem Khan, Ishaq Ahmad, Fabian I. Ezema	Synthesis of ZnO Nanowires using Cost-effective and Simple Method
ENG 076	Chika Maduabuchia, and Mkpamdi Eke	A new solar thermoelectric generator with enhanced nanomaterial-tapered thermoelements
ENG 079	R.T. Ngongang, E. U. Onoh, A. CNwanyaI, M.T A. Ottou, B. Atawa, J.M.B Ndjaka, Fabian I. Ezema	Performance analysis, challenges and future prospects of Copper Calcium Titanate nanoparticle-polymer for high capacity energy storage
ENG 081	M.O. Nwodo, D.U. Onah	On the photoluminescence and morphology of NiO/PbO core-shell thin film
SMD 01	T.O.Daniel, D.Nmadu, M. Alpha , S.O. Ali and S.C. Onuegbu	Additive manufacturing of semiconductor tin sulphide (SnS) thin film via liquid deposition modelling 3D

		printing of precursor solution for application in optoelectronic and electronic devices
SMD 03	H.I. Ikeri, A.I. Onyia, P. U. Asogwa	Theoretical models and strategies for high performance quantum dots based third generation solar cells
SMD 09	Francis O. Ndukwe, and S. O. Ezeonu	Dimensionality of quantum mechanics a concern to nano-electronics
PHC 03	I.S.Okeke, K.K. Agwu, A.A. Ubachukwu, I.G. Madibad, M. Maaza, G.M. Whyte, F.I.Ezema,	Impact of particle size and surface defects on antibacterial and photocatalytic activities of undoped and Mg-doped ZnO nanoparticles, biosynthesized using one-step simple process
BST 05	M.I. Nwachukwu, E.U. Onoh, A.C. Nwanya, F.I. Ezema,	Green Synthesis of licoo2 and licomno4 for LIB Electrodes Applications
BST 07	Emmanuel I. Osuagwu¹, Samson O. Aisida, Ishaq Ahmad, M. Maaza, Fabian I. Ezema	Biogenic Synthesis of Silver Nanoparticles Capped with Unripe Plantain Peels (UPP) for Antibacterial Activities
BST 10	Tega N. Akpojevwa, Samson O. Aisida, Ishaq Ahmad, M. Maaza and Fabian I. Ezema	In- vitro antibacterial therapeutics applications of nickel oxide nanoparticles via green synthesis
BGD 03	Ezeh M. I., Mgbadike C. D., and Uti C. A.	Fabrication of a bio-digester using fresh cow dung as energy source
BGD 07	N. A. Cliff¹, I. Y. Suleiman, P. O. Offor.	Comparative study of rheologically treated shea butter and other quenching media on medium carbon steel for oil and gas application
BGD 09	Hassan A.B, Tanko Hussaina O & Yemisi Adegboy	Biomass as an alternative source of energy
SMD 02	EKE VINCENT O.C. and AHANEKU M	Development of a hybrid congestion control-avoidance scheme in a diffser-aware-mpls backbone networks through queuing network modeling and simulation techniques
SMD 05	J.N.Eneh, H.I Ugwu and V.C. Chijindu	Comparative study of soft computing techniques in solving inverse kinematics of 3-D of mobile robot arm
SMD 11	R.T. Ngongang, E. U. Onoh, A. C. Nwanya, M.T A. Ottou, B. Atawa, E, J.M.B Ndjaka, Fabian I. Ezema	Simulation of Maxwell-Wagner-Sillars interfacial polarisation in the dielectric spectra of three-layer composite materials.
BST 01	Cornelius Ogbodo Anayo Agbo	Natural fibre reinforced-biopolymer nanocomposites developed from cassava starch-based matrix
BST 06	C. Mbakaan Onoja A.D	Effect of phosphoric acid pre-treatment on the luminescent properties of nanosilica derived from rice husk
BST 08	Onyedikachi A. Onah, Samson O. Aisida, Ishaq Ahmad, M. Maaza and Fabian I. Ezema	Gongronematifolium capped zinc ferrite nanoparticles for hyperthermia in cancer therapy
BGD 01	A.A. Gulumbe, J. Sani, B.U Bagudo, Y. Hassan, S.M Maishanu, & S.M. Gulma	Genetic potentials of pearl millet (pennisetum glaucum (L.) R. Br.) For enhanced yield and biogas production semi arid regions of Nigeria
BGD 04	Geraldine. I. Okoro, Veronica. A. Ezeokoye	effects of co-digestion and catalysts on biogas yield
BGD 08	Ulakom Stella I., Ezeokoye Veronica., Ofomatah Anthony Chibuzo., Ezeokoye David and Agdaogu Ada	A comparative study of oil and biodiesel from Annonia muricata, Huracrepitans and Thevetianeriifolia seed oil
BGD 11	J. Sani, B.U Bagudo, Y. Hassan, S.M Maishanu, S.M. Gulma, & A.A. Gulumbe	Synthesis and characterization of metal organic frameworks for biogas purification from pearl millet stover
BGD 10	Ogbodo Nkiruka Jacinta, Esonye Chizoo, Nlemedim Peace	Recyclability of nano based catalysts for sustainable biodiesel production: a review
ENVIRONMENT AND HEALTH		

ENV 01	AJAYI, Anthony O¹and RAJI, Mujeedat F	Effect of cement factory pollution on human living in close proximity to cement factory in nigeria.
ENV 04	Ezeako, E. C., Ossai, E. C. and Nworah, F. N.	Prospects of Non-Edible Oils as Raw Material for Sustainable Energy Production in Africa
ENV 05	Ezewudo, B.I., Mgbenka, B.O., Odo, G.E..	Metal Pollution in Sediments of Lower Reaches of Niger River: Preliminary Investigation of Ecological Risks and Source Apportionment
ENV 06	Igwe, Emmanuel Awucha, Peter, PhinianChidalu, and Victor, Abiola Joshua	The need for ENVIRONMENTAL GEOPHYSICS: the case of abandoned complex behind UBA and FIDELITY banks near Greenhouse at Nsukka campus of University of Nigeria
ENV 12	Ogbu I. C., Okoye C. O. B., Nwanya A. C. and Ibeto C. N.	Potentials of nanoparticles in development of sorbents for oil spilled water surfaces
ENV 19	Sulaiman M. Bashir, Chukwuma O.B. Okoye and Jonnie N. Asegbeloyin	Characteristics and risk assessment of metals in atmospheric PM10 in the vicinity of Ashaka cement factory
ENV 20	UHAMA KINGSLEY CHUKWUKA, IFEMEJE CHINEYE JONATHAN	Evaluation of vehicular emission on ambient quality from some highways in enugu state.
ENV 21	¹MAIGARI A.U, ²SULAIMAN, B.A. *³SULAIMAN, M.B. ³MAIGARI, I.A	Levels and Health Risk Assessment of Vegetables around Industrial area in Bauchi, Northeastern Nigeria
ENV 25	Chekwebchukwu Victory Chibueze¹; Chidozie Charles Nnaji^{1,2} and Chukwuebuka Akanno¹	A predictive and actual characterization of runoff generated within nsukka urban
HEALTH		
HLT 07	Enechi Osmund Chukwuma Okeke Emmanuel Sunday, NkwoemekaNdidi Ethel, Nwankwo Nicodemus Emeka, Arum Destiny Chidiebere,	Ethanol extract of Annona senegalensispersoon (Annonaceae) leaves attenuates hematological and biochemical alterations in alloxan-induced diabetic rats
HLT 11	*Nworah, F. N., Chukwuma, I. F., Apeh, V. O., Osuji, D. O. and Ezeako, E. C.	Evaluation of the Effect of Aqueous Methanol Extract and Ethyl Acetate Fraction of TapinanthusGlobiferus Leaves on some Biochemical and Haematological Parameters inWitsar Albino Rats.
HLT 14	Okoli, S.C.; Balarabe, M. H.; Johnson J. O.; Henrietta, U.0.;Ngwu, J. N.; Ohadoma, A.N.; Nwosu, C.P.; Okafor, R.N.; Enebechi, P.C.; Ani. S.A.; Olofin. O.A.; Ezinwanne, B.C.; & Anichi F.O	Professionals at government dental clinics in enugu state metropolis, enugu state, nigeria
HLT 17	Patrick N. Onyi, Thaddeus H. Gugu, Emmanue C. Ozoude, Ezekiel Green, Kenneth C. Ofokansi, Hope E. Ndubuisi-Onyi, Philip D. Berebona, Samson C. Ugwuagbo, Restus C.	Onwusoba, Emmanuel C. Ibezim Prevalence of Metallo- β - Lactamases (MBLs) in Carbapenem Non-Susceptible Escherichia coli Isolated from Major Meat Sources
HLT 22	Uzoeto, H.O, Ngwu, J. N. 1, Balarabe, M.H ¹and Peter, I.U	Synergy between nanotechnology and microbiology and its application: a review
HLT 27	Christian N. Nwabunwanne, Samson O. Aisida, Ishaq Ahmad, M. Maaza, ABC Ekwealor¹ and Fabian I. Ezema	Antimicrobial therapeutic applications of ocimumgratissimumconcentration induced silver nanoparticles by in-situ bio-inspired synthesis protocol
HLT 09	I.S.Okekea,b, K.K. Agwu, A.A. Ubachukwua, F.I.Ezema	Influence of transition metal doping on optical, morphological and antibacterial properties of ZnO- Nanoparticles: A review
HLT 13	Okoli, S.C.; Balarabe, M. H.; Johnson J. O.; *Henrietta, U.0.; Ngwu, J. N.; Ohadoma, A.N.; Nwosu, C.P.; Okafor, R.N.; Enebechi, P.C.; Ani. S.A.; Olofin. O.A.; Ezinwanne, B.C.; & Anichi F. O	Perceptions on the Use of Traditional Medicine in Dental Practice Among Practicing Dental Professionals at Government Dental Clinics in Enugu State Metropolis, Enugu State, Nigeria
HLT 15	CHIDIEBERE OGONNAYA OBASI¹ AND AHMAD ABUBAKAR SOJE²,	Gamma Radiation Dosimetry Using Cu ₂ ZnSnS ₄ (CZTS) Thin Films
HLT 19	Somtochukwu Amuche Evuran, Blessing Itohan Omo-Omorodion,	Microorganisms associated with Common Bakery Products sold in Ile-Ife

	Berebon Phili, Stephen Chijioke Emencheta, Ozioko Angela Chizoba, Ugwu Chinenye Nnenna, Ezeibe Ezinwanne, Chiamaka Felicitas Okpalanwa	
HLT 25	Mbah CC1, Ezege AC1, Obitte NC, Attama AA, Ofoefule SI	Development and characterization of lecithin-based nanocapsules for enhanced delivery of levofloxacin in the treatment of tuberculosis
HLT 09	I.S.Okekea,b, K.K. Agwu, A.A. Ubachukwua, F.I.Ezema	Influence of transition metal doping on optical, morphological and antibacterial properties of ZnO-Nanoparticles: A review
HLT 13	Okoli, S.C.; Balarabe, M. H.; Johnson J. O.; *⁴Henrietta, U.0.; Ngwu, J. N.; Ohadoma, A.N.; Nwosu, C.P.; Okafor, R.N.; Enebechi, P.C.; Ani. S.A.; Olofin. O.A.; Ezinwanne, B.C.; & Anichi F. O	Perceptions on the Use of Traditional Medicine in Dental Practice Among Practicing Dental Professionals at Government Dental Clinics in Enugu State Metropolis, Enugu State, Nigeria
HLT 15	CHIDIEBERE OGONNAYA OBASI¹ AND AHMAD ABUBAKAR SOJE²,	Gamma Radiation Dosimetry Using Cu ₂ ZnSnS ₄ (CZTS) Thin Films.
HLT 19	Somtochukwu Amuche Evuran, Blessing Itohan Omo-Omorodion, Berebon Phili, Stephen Chijioke Emencheta, Ozioko Angela Chizoba, Ugwu Chinenye Nnenna, Ezeibe Ezinwanne, Chiamaka Felicitas Okpalanwa	Microorganisms associated with Common Bakery Products sold in Ile-Ife
HLT 25	Mbah CC1, Ezege AC1, Obitte NC, Attama AA, Ofoefule SI	Development and characterization of lecithin-based nanocapsules for enhanced delivery of levofloxacin in the treatment of tuberculosis
AGRICULTURE AND OTHERS		
AGC 01	Asuquo Jonathan	Agricultural economics and agri-nanotechnology toward sustainable agriculture and national development.
AGC 09	Onyekwelu, C.N.	Quality characteristic of mixed fruit wine produced from blends of beetroot and sour sop
AGC 03	Obi Maryjane, A.	Effect of tigernut flour addition on the sensory attributes and chemical composition of maize pap.
UNC 01	Johnson U. Abangwu, Daniel N. Obiora, Johnson C. Ibuot, Oliver U. Ekwueme	Estimation of Curie point depth, heat flow and geothermal gradient in Bida and Baro areas, middle Niger basin, northcentral Nigeria, using airborne magnetic data
UNC 03	Akpan, Sunday Akpan	Youths Unemployment and Increasing Social Vices In Nigeria: Empowerment as a Panacea
UNC 05	Ngwu, J.N.; Johnson J.O.; Henrietta, U.0. Balarabe, M.H.; Ohadoma, A.N.; Okoli, S.C.; Olofin, O.A.; Ani. S.A.; Nwosu, C.P.; Enebechi. P.C; Oyibo, D.A.; .& Okenkenwa, Q.C.	The Knowledge on the Impact of Cigarette Smoking on Oral Health Among Chemical Engineering Students at Enugu State University of Science and Technology [ESUT], Enugu State, Nigeria
UNC 08	Ngozi Agatha Okwesili , Francisca Nneka Okeke and Daniel Nnaemeka Okeke	Determination of the mantle conductivity – depth structure within the southern africa regions
UNC 10	Ugwuanyi, Sabastine Emeka	Use of scientific literacy taxonomy for assessing nanophysics literacy level among senior secondary school students
UNC 12	Suleiman Taufiq, Francisca, N. Okeke, Daniel, N. Obiora1& Usman, S. Tunga	Evaluation of Radiogenic Heat Production of Sokoto Basin, Nigeria using high resolution Aero-radiometric data for the prospect of Geothermal Energy
UNC 14	E.M Mowarin, T.C Nwaudah1, B.I Waya, D.O Oyeka	An automated car parking system

UNC 02	Ifeanyi O. N. Aguzie, Christian C. Ugo, Joy T. Anunobi, Joy I. Nzei, Elijah Okwuonu, Ijem Nnachi, Grace C. Onyishi, Patience O. Ubachukwu	Determinants of Insecticide Treated Nets Ownership and Use and Antenatal Attendance among Pregnant Women in Selected Hospitals in Nsukka Zone, Enugu State, Nigeria
UNC 04	Ezeh Marian I., Mgbadike Chukwuka D. and Omoha, A.	Estimation of solar intensity between abiraku and obiaku community using a thermoelectric pyranometer
UNC 06	Okoye O.V, Ikwueto O.C. & Okeke N.B	Pedal power system for energy generation an approach to mitigating climate change: the nnewi scenario
UNC 09	Ugonabo O. J., Amanekwe G.C. and Okpala K.C	Seasonal Variability of Total Electron Content in low latitude region of West Africa
UNC 11	Anoliefo Edward, Chijindu Vincent, Ojike Onyekwere, Egoigwe Sochima	A comparative study of levelized energy cost of solar, electric and gas powered crop dryers.
UNC 13	Ojo, Akintayo O	Electrical Resistivity Imaging Characterization to detect Leachate Migrations around a dumpsite on a Basement Complex region of Southwestern Nigeria
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