

## SUBMISSION OF ABSTRACT

(July 15, 2023–October 15, 2023)

An abstract of maximum of 250 words only detailing overview/aim of work, methodology, results and conclusion should be submitted along with the evidence of payment (transfer details) of abstract processing fee of **two thousand Naira (N2,000)** only on the conference site (<https://www.lautechnanotech.com/files/conference.php>). **Only the abstracts accompanied with the evidence of processing fee would be processed.**

## CONFERENCE SUB-THEMES

- Nanotechnology and Disruptive Technologies
- Nanotechnology in the wake of COVID-19
- Nanotechnology in Developing Nations
- Nanotechnology in Space Research
- Nanobiotechnology, Nanoenzymes and Nanobiosensors
- Nanocomputing and Nanoinformatics
- Nanomachines, Nanocomposites and Nanorobotics
- Nanotechnology in Agriculture and Agro-allied Industries
- Nanotechnology in Environmental Quality and Safety
- Nanotechnology in Food Processing, Nutrition and Safety
- Nanotechnology in Medicine and Biomedicals
- Nanotechnology in Fossil Fuels and Renewable Energy
- Nanotechnology and Mineral Exploration
- Nanotechnology in the Built Environment
- Nanotechnology in Transportation
- Nanotechnology and Climate Change Research
- Nanotechnology in Water Treatment and Remediation
- Nanotoxicity and Nanotoxicology
- Policy Issues and Development in Nanotechnology
- Surface Coating Technology and Packaging
- Nanotechnology in Bioprocesses
- Nanotechnology in Military and Defense Systems
- IPR Issues in Nanotechnology and Commercialization of nanoproducts/services
- Nanoentrepreneurship
- Nanotechnology Education



### FEATURING:

Lectures, Demonstrations, Questions and Answers, Oral Presentations, and Networking

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## WHO ARE WE?

LAUTECH Nanotechnology Research Group (NANO+) which was formed on September 4, 2014 to advance the course of research in the multidisciplinary subject of Nanotechnology at Ladoké Akintola University of Technology, Ogbomoso, Nigeria ([www.lautechnanotech.com](http://www.lautechnanotech.com)) is a formidable research team. The pioneer members were propelled by quest to conduct meaningful research in this area, and also to train manpower, thereby putting LAUTECH in a vantage position in Nanotechnology Research in Nigeria. The group has the vision of transforming LAUTECH to a centre of excellence in Nanoscience and Nanotechnology in Nigeria.

The group has drawn membership from dedicated scholars from different Departments within the University; with advanced training in Molecular Biology, Industrial Microbiology, Biotechnology, Nanotechnology, Toxicology, Biochemistry, Materials Engineering, Renewable Energy and Nanofabrication. Since 2015, members of the group have published more than one hundred and forty (160) quality research outcomes on nanotechnology in reputable Journals and books (<http://lautechnanotech.com/files/publication.php>).

Members of the group are Prof. A. Lateef, Prof. M.A. Azeez, Prof. T.A. Yekeen, Prof. T.B. Asafa, Prof. I.C. Oladipo, Dr. E.A. Adebayo, Prof. Y.K. Sanusi, Prof. M.O. Durowoju, Dr. O. Adedokun, Dr. J.A. Badmus, Dr. M.K. Awodele, and Dr. I.F. Bolarinwa.

The research group which is headed by Prof. A. Lateef of the Department of Pure and Applied Biology, LAUTECH, Ogbomoso has successfully organized five workshops and conferences on nanotechnology. These are:

1. National Workshop on “Synthesis, Characterization and Applications of Nanoparticles” (21-24 August, 2017).
2. 2nd Workshop and International Conference on “Nanotechnology for Sustainable Development: Prospects for Africa” (23-25 October, 2018).
3. 3rd Workshop and International Conference on “Nanotechnology Applications in Africa: Opportunities and Constraints” (22-24 October, 2019).
4. 4th Workshop and International Conference on “Human Existence and Resource Utilization: Extending the Frontiers through Nanotechnology” (27-28 October, 2020).
5. 5th Workshop and International Conference on “Nanotechnology in Africa: Changing the Narratives for the Benefits of Mankind” (26-28 October, 2021).

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6. 6th Workshop International Conference on “Nanotechnology for Socioeconomic Development of Africa” (22-25 November, 2022).

- Since 2018, the ministry and the Honorable minister of science, technology and innovation have been part of LAUTECH NANO Conferences.
- Papers presented at the 2nd to 6th conferences have been published in reputable journals in Nigeria and UK.
- The group was commended for its immense contributions to the ranking of LAUTECH, Ogbomoso, Nigeria during the 14th convocation of the University held on 22-23 April, 2022.
- The group parades some of the top contributors to nanotechnology articles in Nigeria. Five of the members are among the top 12 scholars in Nigeria via papers indexed by SCOPUS (2010-2020).
- Scholars from Nigeria, UAE, Egypt, South Africa, Botswana, Tunisia, Togo, Sierra Leone, India, Saudi Arabia, Malaysia, China, Sweden and the United Kingdom have presented papers in the previous conferences.
- The group founded the first journal on nanotechnology in sub-Saharan Africa. The journal, Nano Plus: Science and Technology of Nanomaterials is available online (<https://stnanojournal.org/>) and in its 6th volume.



**STANOMAT JOURNAL**



<https://doi.org/10.48187/stnanomat>

The Official Journal of LAUTECH Nanotechnology Research group

For peer-reviewed, quality and visible publication, publish your nanotechnology articles in STANOMAT

Submission via online dedicated platform that is fully automated



**Nano Plus: Science and Technology of Nanomaterials**

<https://stnanojournal.org/>

ISSN: 2782-8166 (print) 2782-8174 (electronic)

## ABOUT NASRDA

The National Space Research and Development Agency is the national space agency of Nigeria. It is a parastatal under Federal Ministry of Science, Technology and Innovation. The agency is based in the Nigerian capital city of Abuja in the Lugbe district and has a ground receiving station, among various other sites. The mission of NASRDA is to vigorously pursue the attainment of space capabilities and the enhancement of the quality of life of mankind through space related research and development (R&D), capacity building in the fields of science, engineering, space law and administration for sustainable national development.

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## ABOUT FMSTI

The Federal Ministry of Science, Technology and Innovation is a Nigerian ministry whose mission is to facilitate the development and deployment of science and technology apparatus to enhance the pace of socio-economic development of the country through appropriate technological inputs into productive activities in the nation.

## EVENT'S BREAKDOWN

### WORKSHOP TARGETED AT POSTGRADUATE STUDENTS AND EARLY CAREER SCIENTISTS/ RESEARCHERS

(Monday, November 20, 2023)

Workshop on Synthesis, Characterization and Applications of Nanoparticles

Time: 10:00 am-4.00 pm

Venue: Incubation Centre, NASRDA, Abuja

### PHYSICAL AND E-CONFERENCE (November 21-23, 2023)

Opening Ceremony of the Conference, Invited Lectures and Technical Sessions

Time: 9:00 am – 5.00 pm daily

## PAYMENT BREAKDOWN

### Payment and Registration

(Early bird till September 15, 2023)

Workshop and Conference fees (Local) N30, 000

(Physical); N10, 000 (Online)

Conference alone (Local) N25, 000 (Physical); N10, 000 (Online)

Students (with ID card) N10, 000

Conference fee (International) \$120:00

### Late Registration (September 16, 2023–October 15, 2023)

Conference fee (Local) N35, 000 (Physical); N15, 000 (Online)

Conference fee (International) \$150

## INSTRUCTIONS ON PAYMENT

Payment should be made into:

**NANOTECHNOLOGY RESEARCH GROUP:**

**Account Number 1019352988, UBA Plc. (NAIRA): Local Participants**

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**Account Number 2147005401 (Swift Code UNAFNGLA), UBA Plc (Dollar Domiciliary): International Participants**

After payment, participant should proceed to registration on the conference site and complete the registration form (<https://www.lautechnanotech.com/files/conference.php>).

An acknowledgement e-mail would be sent to the registrant.

#### Important Dates

Abstract submission July 15, 2023 - October 15, 2023  
Early bird registration Ends on September 15, 2023  
Late registration September 16, 2023 - October 15, 2023

### BENEFITS OF THE WORKSHOP/CONFERENCE

- Participants at the workshop would learn various techniques in Nanotechnology research
- The Conference would expose participants to current trends in nanotechnology research; where and how to infuse nanotechnology in their research activities
- Networking with established researchers in the area of nanotechnology for collaboration
- Postgraduate and early career scholars would be tutored on access to grants and fellowships
- Some of the quality papers presented at the conference would be published

### HIGHLIGHTS OF 6TH CONFERENCE ON NANOTECHNOLOGY (LAUTECH-NASRDA NANO 2022)

LAUTECH-NASRDA NANO 2022 was a success story with the participation of the Honourable Minister of Science, Technology and Innovation, Permanent Secretary of the ministry, Personnel of the Nigerian Armed Forces and attendance of about 210 participants from around sixty (60) institutions and agencies from Nigeria, South Africa, India, Tunisia, India, Malaysia, and Cameroon.

Offer by National Space Research and Development Agency (NASRDA) and Federal Ministry of Science, Technology and Innovation to co-host the 2023 conference in Abuja

Creation of 'Nano Stand' where posters, publications, photo album and products depicting activities of the Group were displayed

Seventy-three abstracts of papers that were presented at the conference have been published in Nano Plus: Science and Technology of Nanomaterials (<https://doi.org/10.48187/stnanomat.2022.5.001>).

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### SPEAKERS AT THE CONFERENCE

#### Prof. Omowunmi Sadiku,

Department of Chemistry and Environmental Sciences, New Jersey Institutes of Technology, USA

#### Prof. Oluwatoyin Odeku,

Faculty of Pharmacy, University of Ibadan, Nigeria

#### Prof. Oyedunni Arulogun,

Department of Health Promotion and Education, University of Ibadan

#### Dr. Mikael Syväjärvi,

ALMINICA AB, Research Utilization and Innovation Capacity, Sweden

#### Professor Fabian. I. Ezema,

Department of Physics, University of Nigeria, Nsukka, Nigeria

#### Professor (Mrs) Esther Ikhuoria,

Department of Chemistry, University of Benin, Nigeria

#### Professor Chérif Dridi,

Centre for Research on Microelectronics and Nanotechnology, Technopark of Sousse, Tunisia

#### Prof. N. Tabet,

Department of Applied Physics and Astronomy, University of Sharjah, United Arab Emirates

#### Dr. Hassan Soleimani,

Department of Fundamental and Applied Sciences, Universiti Teknologi PETRONAS, Malaysia

#### Dr. Samuel Chigome,

African Materials Research Society (AMRS), Botswana Institute for Technology Research and Innovation, Gaborone, Botswana

#### Prof. Evariste B. Gueguim-Kana,

Department of Microbiology, University of KwaZulu-Natal, Pietermaritzburg, South Africa

#### Dr. S.H. Abbas,

Centre of Excellence in Nanotechnology (CENT), King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

#### Dr. Lorika S. Beukes,

Department of Microbiology, University of KwaZulu-Natal, Pietermaritzburg, South Africa

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#### Prof. Enock O. Dare,

Department of Chemistry, Federal University of Agriculture, Abeokuta, Nigeria

#### Prof. A.S. AbdulKareem,

Department of Chemical Engineering, Federal University of Technology, Minna, Nigeria

#### Prof. Sheriff Adewuyi,

Department of Chemistry, Federal University of Agriculture, Abeokuta, Nigeria

#### Prof. Ts. Dr. Uda Hashim,

Institute of Nano Electronic Engineering, Universiti Malaysia Perlis, Malaysia

#### Dr. Elias E. Elemike,

Department of Chemistry, Federal University of Petroleum Resources, Effurun, Delta State, Nigeria

Dr. Nandita Dasgupta, Institute of Engineering and Technology, Lucknow, India

#### Dr. AbdulLateef Bakre,

Department of Pharmaceutics and Pharmaceutical Technology, Olabisi Onabanjo University, Ago-Iwoye, Nigeria

#### Dr. Jean Christopher Chamcheu,

School of Basic Pharmaceutical and Toxicological Sciences, University of Louisiana at Monroe Louisiana, USA

#### Dr. Shola Odusanya,

Sheda Science and Technology Complex, Abuja, Nigeria

#### Dr. O. A. Alabi,

Department of Biology, Federal University of Technology, Akure, Nigeria

### CONTACTS

**E-mail:** nanotech@lautech.edu.ng;  
alateef@lautech.edu.ng;  
maazeez@lautech.edu.ng;  
icoladipo@lautech.edu.ng  
bestbrain\_engr@yahoo.com  
**Phone:** 08037400520  
08034236886  
08032183477  
08034267471  
**URL:** www.lautechnanotech.com



**COVID-19 PREVENTIVE PROTOCOLS WILL BE OBSERVED AT THE PHYSICAL EVENT**

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# LAUTECH-NASRDA-FMSTI NANO 2023

Presents



## INTERNATIONAL CONFERENCE ON NANOTECHNOLOGY (HYBRID)

Conference Hall, National Space Research and Development Agency, Lugbe, Abuja and Zoom Webinar

9:00am – 5:00pm daily

November 20-23, 2023

Official Journal-  
Nano Plus: Science  
and Technology of  
Nanomaterials  
(<https://stnanajournal.org>)

## Theme of the conference: NANOTECHNOLOGY IN FOURTH INDUSTRIAL REVOLUTION: OPPORTUNITIES FOR EMERGING ECONOMIES

#### CHAIRMAN

**Prof. Rom Olatunde Razaq Kalilu**  
Ag. Vice-Chancellor,  
LAUTECH, Ogbomosho

#### HOST

**Prof. A. Lateef, FCEnt**  
Head, Nanotechnology Research  
Group (NANO+), LAUTECH,  
Ogbomosho

#### CO-CHAIRMAN/CHIEF HOST

**Dr. Halilu A. Shaba**  
DG/CEO, National Space Research  
and Development Agency,  
Abuja

#### LOC CHAIRMAN

**Dr. Benjamin G. Ayantunji**  
Director, Physical and Life  
Sciences, NASRDA, Abuja

#### KEYNOTE SPEAKER

**Dr. Bashir Gwandu**  
Executive Vice-Chairman/DG,  
National Agency for Science and  
Engineering Infrastructure (NASENI),  
Abuja

#### CO-HOST

**Mr. Mfom E.J. Bassey**  
Director, Chemical Technology and  
Chairman, National Steering  
Committee on Nanotechnology  
Policy and Development, Federal  
Ministry of Science, Technology and  
Innovation, Abuja

#### SPECIAL GUEST OF HONOUR

Honourable Minister of Science, Technology and Innovation,  
FMSTI, Abuja