


14 - 16 December 2021

Organized by

Amal Jyothi Centre for Nanoscience & Technology
and Department of Basic Sciences of Amal Jyothi

in partnership with

Department of Energy Materials, Mahatma Gandhi
University and the Faculty of Chemistry,
Gdańsk University of Technology, Poland

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 www.aicera.in

AICERA 2021

ANNUAL INTERNATIONAL CONFERENCE on
EMERGING RESEARCH AREAS



ICAN 2021

International Online Conference on
ADVANCED NANOMATERIALS

Aim & Scope of the Conference

AICERA 2021 aims at the creation of an avenue for exchange of novel ideas and open discussion on the recent advances in nanotechnology and nanomaterials. It focuses on emphasizing the recent advances in interdisciplinary research on processing, morphology, structure and properties of nanostructured materials and nanocomposites and their applications in various fields. The conference will bring together a panel of highly accomplished experts in the fields of Nanomaterials and Nanocomposites. Talks will encompass basic studies and applications and address topics of novel issues, problems, and breakthroughs in Nanostructured materials and Nanocomposites. It features keynote addresses, plenary sessions, invited talks and contributed lectures focusing on specific tenets of nanostructured materials. A Young Researchers Meet also is arranged as part of the programme. Awards will be given to the best oral and poster presentations among the short invited talks of the students.

About Amal Jyothi

Amal Jyothi College of Engineering Kanjirappally (AJCE) has established itself as a benchmark of excellence in technical higher education, research, innovative student projects and entrepreneurship. Founded in 2001 by the Catholic Diocese of Kanjirappally, AJCE is approved by the AICTE and affiliated to APJ Abdul Kalam Technological University, Kerala. Amal Jyothi is the first new generation engineering college in Kerala to secure the prestigious NBA accreditation for prime departments and the first engineering college to have NAAC accreditation with 'A' grade.

The main features of the College comprise world-class infrastructure, top-flight faculty, high pass percentage, excellent placement record, outstanding entrepreneurship and unique skills centers. The College offers B.Tech Programmes in ECE, CSE, IT, ME, EEE, CE, ME (AU), CH, FT and MME, M.Tech in highly specialized areas under the departments of ECE, CSE, EEE, CE, CHE & ME, MCA in two streams and Ph.D in Basic Sciences and Engineering.

Amal Jyothi Center for Nanoscience and Technology (ACeNT) was established in 2012 for fostering research and development activities in various areas of Nanotechnology. Several funded projects from the DST, DRDO, KSCSTE, KTU and AICTE have

been successfully implemented at the Center. Guidance of students at the Doctoral, Master's and B. Tech level is a prime activity of the Centre. ACeNT has also established research collaborations with several institutes in India and abroad. The Department of Basic Sciences, an integral part of the College since its inception offering instruction in Mathematics, Physics and Chemistry is devoted to foster the understanding of basic scientific principles. Academic programs of this department are designed to meet the requirements of the fast-growing science and technology.

Conference Topics

ICAN 2021 is exclusively dedicated to the field of Advanced Nano materials. During the three-day conference, the participants will listen to academicians, scientists, industry researchers, research scholars and students from the fields of Nanoscience and Nanotechnology, Material Science and Engineering, Mechanical Engineering, Food Technology, Biotechnology, Biomedical Engineering, Metallurgy, Chemical Engineering, Automobile Engineering, Civil Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Physics, Chemistry and allied areas.

This conference will cover the following areas:

- › Synthesis of nanoparticles
- › Nanowhiskers
- › Bionano particles
- › Carbon nanotubes
- › Graphene
- › Nano medicine
- › Fullerenes
- › Mxenes
- › Nanoparticles for drug delivery systems
- › Fully green nanocomposites
- › Characterization of nanoparticles
- › Magnetic nanoparticles
- › Polymer Matrix nanocomposites
- › Metal Matrix nanocomposites
- › Ceramic Matrix nanocomposites
- › Bionano composites
- › Interphases/Interfaces in nanocomposites



Topics contd...

- › Crystallization Behaviour of nanostructured Materials
- › Optical Properties of nanostructured materials
- › Electrical Properties of nanostructured materials
- › Rheology of nanostructured materials and nanocomposites
- › Self-assembled nanostructured systems
- › Organic/Inorganic hybrid nano materials
- › Nano-biosensors, nano bioengineering
- › Nanomaterials in construction and structural fields
- › Nanomaterials in energy sector
- › Nanomaterials in machines/mems
- › Nanomaterials in electronic devices
- › Nanomaterials in metallurgy
- › Nanomaterials in automobile sector
- › Modeling and simulation of nano-structured materials
- › Nanostructured complexes
- › Nano-belts
- › Nano- pyramids
- › Nano-engines
- › Nanomaterials for solar cells

Paper Submission

Authors are invited to submit the full papers (4 to 6 pages in M. S Word Format) of the Research/Review Papers through easy chair.

The paper submission link is <https://easychair.org/conferences/?conf=aicera2021>

Only the accepted and registered submissions will be presented during the conference. Papers presented at the conference will be published in Scopus Indexed Conference Proceedings.

Dates to remember

Call for Papers begins: **01.07.2021**

Paper Submission ends: **25.10.2021**

Notification of Acceptance: **31.10.2021**

Camera Ready Paper Registration deadline: **20.11.2021**

Conference Dates : **14.12.2021 to 16.12.2021**

Registration details

The registration fee payable for participation in the conference is as given below:

Category	Fees
Foreign Delegates	\$ 50
Foreign Delegates Student	\$ 30
Indian delegate from Academic, Research/industry	₹ 1000
Indian delegate (Student /Research Scholars)	₹ 500

NB: Charges are applicable for Publication in Scopus indexed Conference Proceedings

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Payment Methods

If you are using NEFT/RTGS/ Net transfer, kindly ensure Paper ID is clearly mentioned in the Funds Transfer Application. If you are using DD, kindly ensure that the Participant/Author name, Paper ID and Conference Title are clearly mentioned at the back of the DD.

Bank details

Name of Account : **AICERA**

Account Number : **0844053000001051**

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Branch Address

Amal Jyothi Engg College EC Branch
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