



KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

NANJANAPURAM, ERODE - 638 107

DEPARTMENT OF PHYSICS

One day National Seminar on “Emerging Technologies in Energy Devices and Functional Biomaterials” - 21.12.2020

KONGU ARTS AND SCIENCE COLLEGE
(An Autonomous Institution Affiliated to Bharathiar University, Coimbatore)
Erode, Tamilnadu

DEPARTMENT OF PHYSICS
DBT STAR COLLEGE SCHEME

One Day National Virtual Seminar
on
Emerging Technologies in Energy Devices and Functional Biomaterials
21.12.2020
10.00 am

Presidential Address
Thiru. K.Palanisamy
Correspondent

Felicitation
Dr. N.Raman
Principal

Resource Persons



Dr. P. Elumalai
Professor & Head
Department of Green Energy Technology
Madanjeet School of Green Energy Technologies
Pondicherry University,
Puducherry - 605014.



Dr. Sarath Chandra Veerla
Associate Professor,
Department of Humanities and Basic Sciences,
Godavari Institute of Engineering and Technology (Autonomous),
Rajahmundry - 533296
Andhra Pradesh, India.

Registration Link : <https://forms.gle/BwpgFluU8Nemr1C8>

Join with us through Zoom  

One day National Seminar on “Emerging Technologies in Energy Devices and Functional Biomaterials” was organized under DBT Fund on 21.12.2020 with the Resource Persons Dr. P. Elumalai, Professor & Head, Department of Green Energy Technology, Madanjeet School of Green Energy Technologies, Pondicherry University, Puducherry and Dr. Sarath Chandra Veerla, Associate Professor, Godavari Institute of Engineering and Technology (Autonomous), Rajahmundry, Andhra Pradesh. Faculty Members, Research Scholars and PG students from various Institutes (290) acquired understanding of methodologies, tools and evaluation frameworks relevant to Energy Storage Devices. Also, participants were provided with sound knowledge on recent developments of Functional intelligent materials for Biological applications. Participants were further motivated to explore research in the current trending areas

Nanomaterials Characterization

Crystallite size vs Particle size vs Grain size

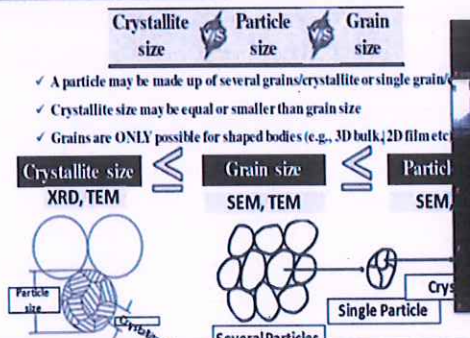
- ✓ A particle may be made up of several grains/crystallite or single grain
- ✓ Crystallite size may be equal or smaller than grain size
- ✓ Grains are ONLY possible for shaped bodies (e.g., 3D bulk, 2D film etc)

Crystallite size \leq Grain size \leq Particle size

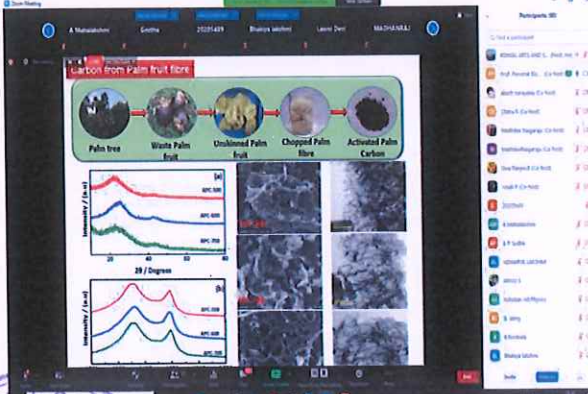
XRD, TEM SEM, TEM SEM

Particle size Crystallite size

Several Particles Single Particle



Carbon from Palm fruit fibre



R. Ch

HEAD OF THE DEPARTMENT
DEPARTMENT OF PHYSICS
KONGU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
ERODE - 638 107.



N. Raman

Dr. N. RAMAN
PRINCIPAL,
KONGU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
NANJANAPURAM, ERODE - 638 107.