



Dr M Anbuchezihiyan.

M.Sc., M.Ed., M.Phil., Ph.D.

Professor And Head

DEPARTMENT OF PHYSICS

044- 27454784 / 8091 , 27454726

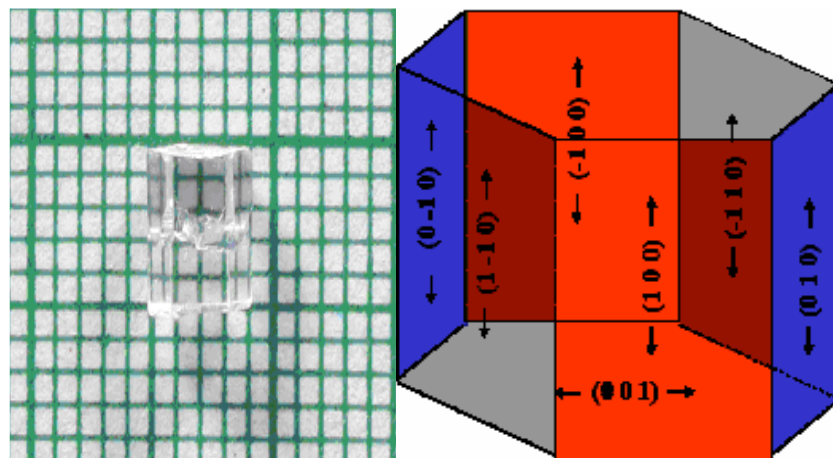
Anbuchezihiyanm.physics@srmvalliammai.co.in



Areas of Research:

Crystal Growth and Nano Materials

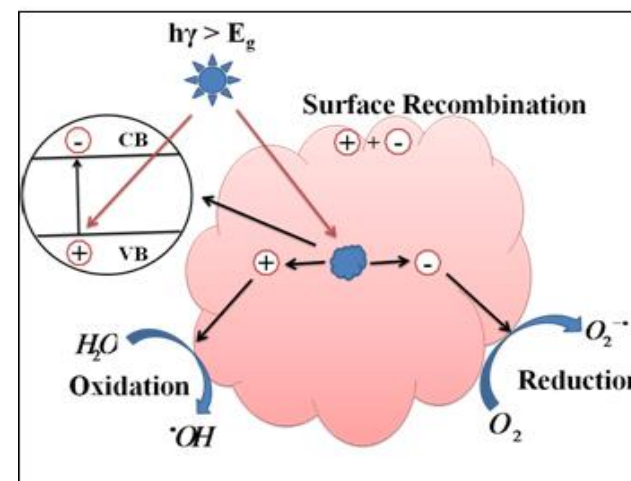
- Synthesis of amino acid compounds
- Synthesis of nano composite materials
- Growth of bulk size crystal
- Growth of NLO crystals



NLO crystal and its Morphology

Characterization studies

- Second Harmonic Generation
- Dielectric Studies
- Etching and Hardness studies
- Photocatalytic studies
- Spectral Analysis



Photocatalysis Mechanism



Dr. K. THIRUPPATHI

M.Sc., B.Ed., Ph.D.

Assistant Professor (Sel.G)

Department of Physics

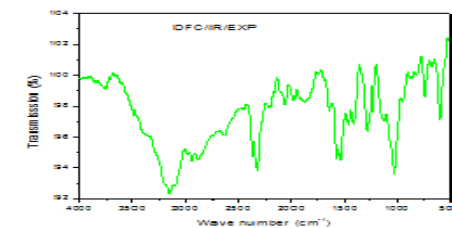
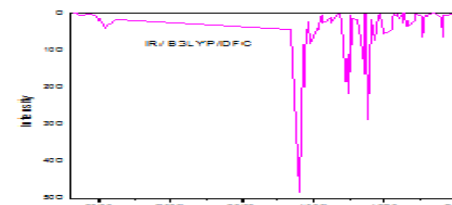
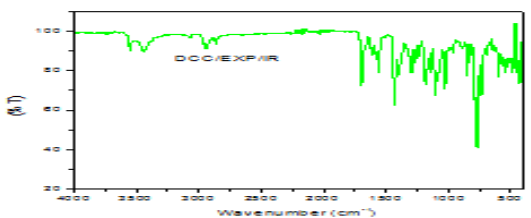
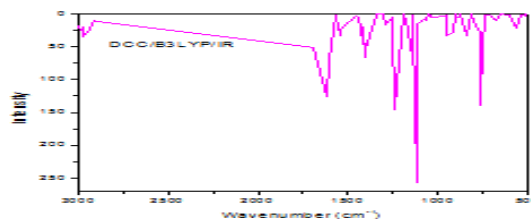
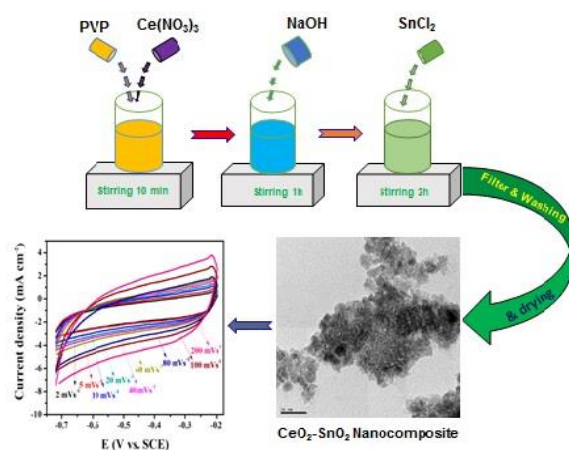
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thiruppathik.physics@srmvalliammai.ac.in



Areas of Research (Material Science)

- **Nanomaterials** - Preparation of Nanoparticles, Characterization of Functional group
- **Nanocomposites** - Preparation of Nanocomposites (Binary, Ternary, Quaternary etc.,)
- **Magnetic Fluids** - Preparation of Magnetic Nanoparticle, MRF Fluids, Ferro fluids
- **Spectroscopy** - Expertise in FTIR, XRD, UV-Visible, SEM, TEM, XPS etc.,





Dr. S.GANDHIMATHI

M.Sc., M.Phil., Ph.D.

Assistant Professor(Sr.G)

DEPARTMENT OF PHYSICS

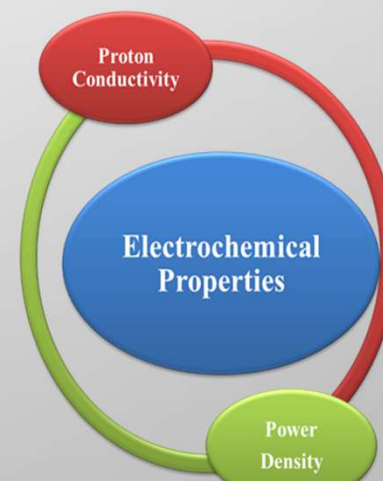
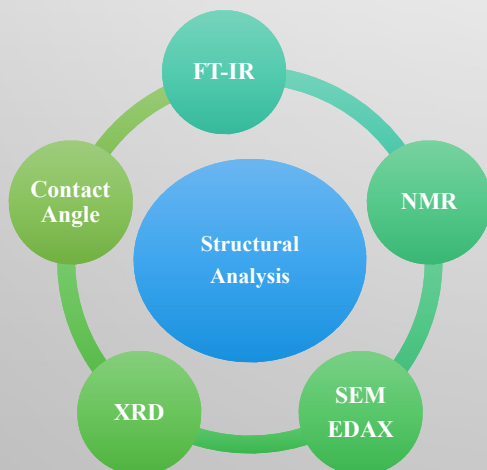
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gandhimathis.physics@srmvalliammai.ac.in



Areas of Research:

- **Polymer Nanocomposites for Fuel cell Application**
 - Physico chemical characterization
 - Spectral Analysis
 - Proton conductivity studies
 - Thermal studies
 - Mechanical studies
- **Electrochemical Performance**



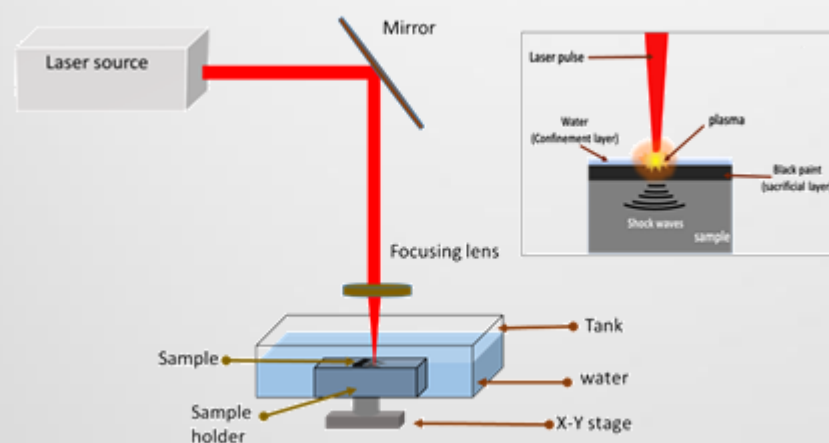


Ms. PRAVEENA.D
M.Sc., M.Phil., (Ph.D.)
Assistant Professor(Sr.G)
DEPARTMENT OF PHYSICS
044- 27454784 / 8091 , 27454726
praveenad.physics@srmvalliammai.ac.in



Areas of Research:

- Laser materials processing
- Surface modification of carbon steels by laser
- Laser shock peening on metallic card –Doffer wire
- Shot peening and laser shock peening on d2 steels
- Micro hardness studies
- Nano indentation studies





Dr. R. NITHYA BALAJI

M.Sc., M.Phil., Ph.D.

Assistant Professor(Sr. G)

DEPARTMENT OF PHYSICS

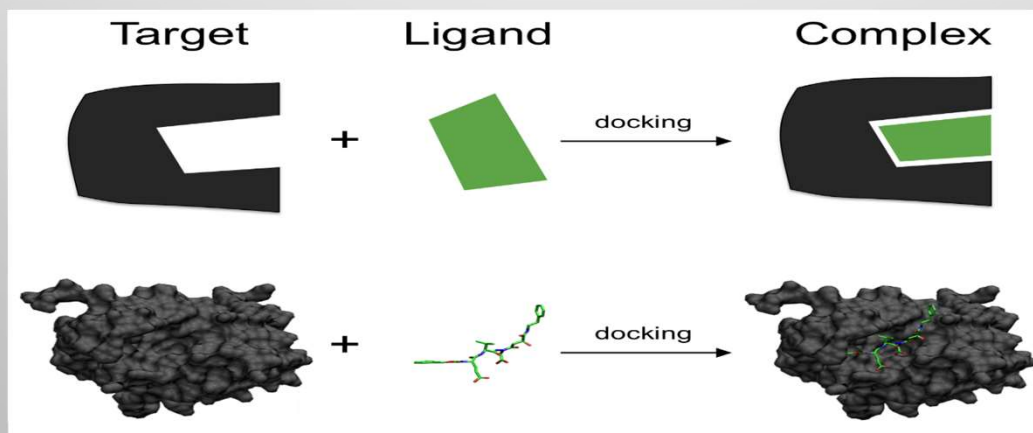
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nithyabalajir.physics@srmvalliammai.ac.in



Areas of Research:

- **Spectroscopy**
In silico method
 - DFT
 - Docking studies
- **Biological Applications**
 - Antidiabetic, Anti-inflammatory, Antioxidant activities



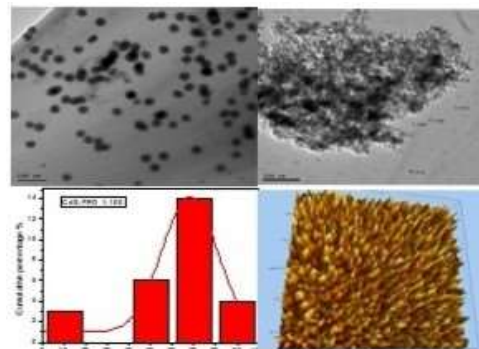


Dr.S.PADMAJA M.Sc.,M.PhiL,Ph.D.,

Assistant Professor(OG)
DEPARTMENT OF PHYSICS
044-27454784 /8091 ,27454726
padmajas.physics@snnvallimllllla i.ac.iu



Area of Specialization : Nano technology
Semiconductor and Magnetic nanocomposites and
Thin films





Ms.R.SASIREKA
M.Sc., M.Phil., (Ph.D.)
Assistant Professor (OG), DEPARTMENT OF PHYSICS
044- 27454784 / 8091, 27454726
sasirekar.physics@srmvalliammai.ac.in

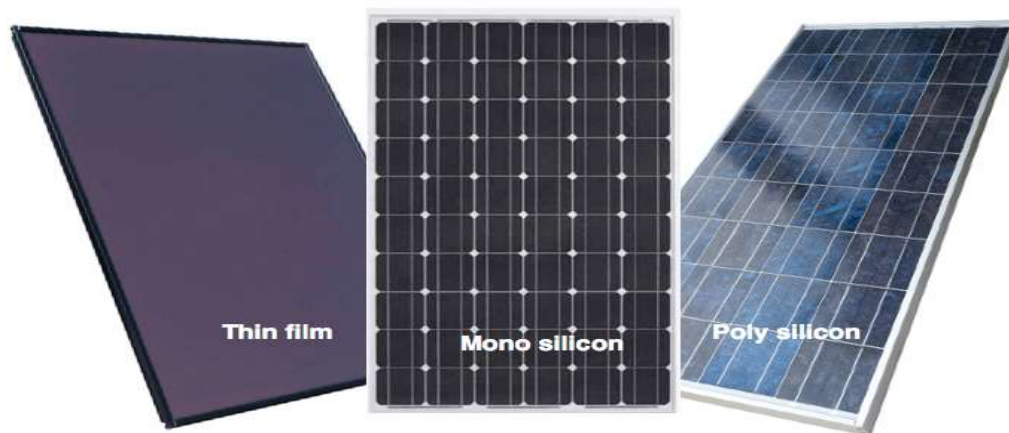


Areas of Research:

- **Thin films**

Photovoltaic applications

- **Nanomaterials**



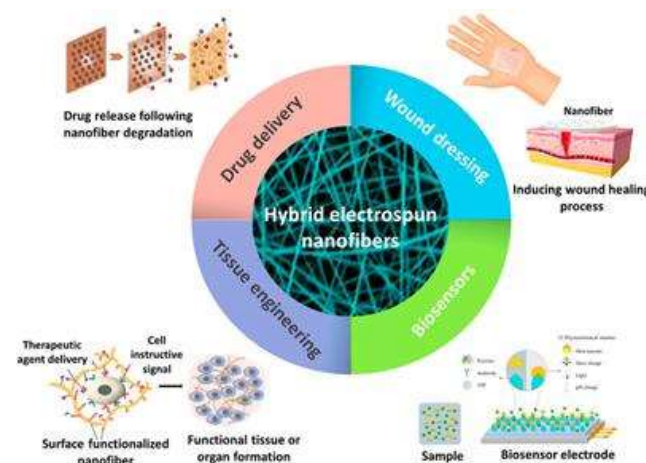
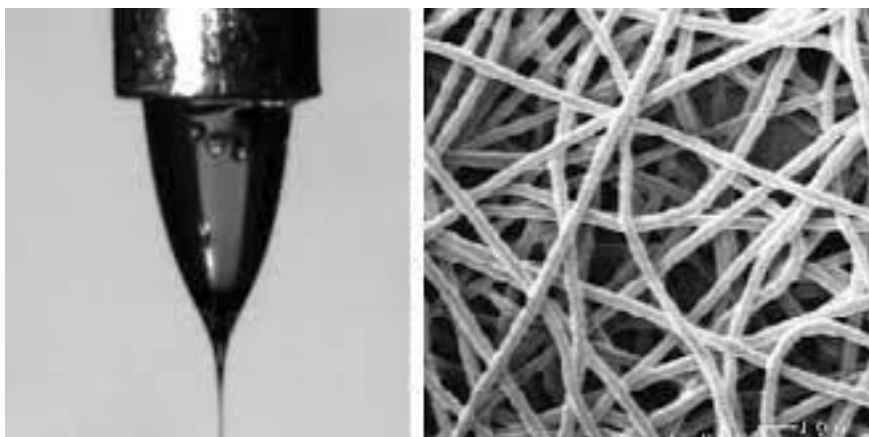


Ms. S. SOWMIYA
M.Sc., M.Phil., (Ph.D.)
044- 27454784 / 8091, 27454726
sasirekar.physics@srmvalliammai.ac.in



Areas of Research:

- Nanocomposites
- Super Paramagnetic Application
- Nanomaterials





Dr. RAMYA RAJAN M.P.

M.Sc., M.Phil., B.Ed., Ph.D.

Assistant Professor(OG)

DEPARTMENT OF PHYSICS

044- 27454784 / 8091 , 27454726

ramyarajanmp.physics@srmvalliammai.ac.in



Areas of Research:

- **Spectroscopic studies**
Computational studies
 - Molecular docking
 - Molecular electrostatic potential
- **Biological studies**
 - Antidiabetic activity
 - Anti-inflammatory activity
 - Antioxidant activity
- **Dielectrics studies**

