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Sunchon National University
South Korea

Research Interests

Nanomaterials
Quantum Dots
2D Layered Materials
Plasmonic Materials
Thin Films
Flexible Electrodes
Contact Lens Sensor
Polymer Membranes

Expertise

Solar Cells
Super Capacitors
Biosensors
CO₂ reduction
Desalination
Oil Upgradation

Contact

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Education

- 2011 Doctor of Philosophy-Electrical and Computer Engineering
- Pusan National University- South Korea
2015 Specialization: Solar Cells
- 2004 Master of Nanoscience and Technology
- Subjects: Chemistry-Physics-Biology
2005 Bharathiar University-India
- 2004 Bachelor of Education
- Subjects: Physical Sciences
2004 Manonmaniam Sundaranar University -India
- 2003 Bachelor of Science-Chemistry
- Subjects: Chemistry-Physics-Maths
2003 University of Madras-India

Teaching Experience

- 2011 Teaching Science, Chemistry and English in High School
- 2015

Research Experience

- 2016 Postdoctoral Researcher
- 2017 Indian Institute of Science - India
- 2017 Postdoctoral Researcher- FONDECYT
- 2019 University of Concepcion- Chile
- 2020 Postdoctoral Researcher
- Khalifa University

Hands- on Experience

Synthesis Techniques

- ❖ DC Sputtering
- ❖ Chemical Vapor Deposition
- ❖ Chemical Bath Deposition
- ❖ SILAR
- ❖ Spin Coating
- ❖ Thermal Evaporation
- ❖ Screen Printing
- ❖ Doctor Blade Coating
- ❖ Hydrothermal
- ❖ Electrodeposition

Characterization Techniques

- ❖ UV-Vis Spectroscopy
- ❖ FTIR- Spectroscopy
- ❖ XRD
- ❖ Photoluminescence Spectroscopy
- ❖ Raman Spectroscopy
- ❖ Scanning Electron Microscope
- ❖ Atomic Force Microscope
- ❖ Glove box
- ❖ Electrochemical Work Station
- ❖ Solar Cell testing