



Silver Jubilee Celebration

(1996-2021)

Department of Energy
Tezpur University

Alumni Talk : 12

Hetero-Junction Solar Cell Fabrications and Characterizations

Time: 3:00 PM, Date: 5th August, 2021

Dr Ashish Kumar Singh

Alumnus

(MTech in Energy Technology: 2010 - 2012)

Post Doctoral Researcher,

Department of Physics,

IIT Madras



Dr Ashish Kumar Singh did his M. Tech in Energy Technology (2012) from Tezpur University and PhD on Solar Cell from IIT Bombay (2019). Presently he is working as Post-Doctoral Researcher at Department of Physics, IIT Madras on 'c-Si' based passivated contact solar cells (bottom cell) for tandem solar cells application via VHF PECVD and PEALD systems. He has set up the complete experimental facility for HIT solar cell fabrication and characterization at IIT Madras. He was Visiting Scholar at National Renewable Energy Laboratory (NREL), USA (2016) and Purdue University, USA (2014). He has experience in synthesizing various kinds of materials for homo and heterojunction solar cells applications and characterizing the structural, electrical, electrochemical, and physical properties of materials using XRD, Raman, XRF, XPS, AFM, SEM, TEM, four probe, hall effect measurement, potentiostat, and ellipsometry etc. He has published a good number of Papers in reputed international journal in the field of Solar Cell.

Google Meet Link : meet.google.com/fer-mrsy-fme