

3rd INTERNATIONAL CONFERENCE ON SOLAR ENERGY PHOTOVOLTAICS
19TH- 21ST DECEMBER, 2019
SCHOOL OF ELECTRONICS ENGINEERING
KIIT UNIVERSITY, BHUBANESWAR-751024, ODISHA
TENTATIVE PROGRAM

REGISTRATION	
18th December, 2019 - 4.30 - 6.00 pm	Venue – Account Section , School of Electronics Engineering, Campus-12
19th December, 2019 – 8.30 – 9.20 am	

19TH DECEMBER, 2019: Venue – Auditorium, School of Electronics Engineering

9.30 TO 10.30 am	INAUGURAL FUNCTION
10.30 to 10.50 am	HIGH TEA
SESSION –I	GENERAL SESSION Venue –Auditorium, School of Electronics Engineering
	SESSION CHAIR: Dr. J. K. Rath, IIT Madras
10:50 to 11.35 am	Plenary Lecture : Prof. C. Jagadish, ANU, Australia <i>Semiconductor Nanowires for Optoelectronics and Energy Applications</i>
11.35 to 12.10 pm	Invited Talk : Dr. Pawan Bhat, Protoflex, USA <i>PV Windows and Flexible PV Modules</i>
12.10 to 12.40 pm	Invited Talk: Ms. Ivona Kafedjiska, PVcomB – Helmholtz Zentrum Berlin, Germany <i>“Development of hole-conducting materials for monolithic thin-film tandem solar cells”</i>
12.40 to 2.15 pm	Visit to KISS (http://kiss.ac.in) and Lunch Break
SESSION –II (2.15 to 6:00 PM)	Si BASED SOLAR CELL Venue –LT-02, School of Electronics Engineering

	SESSION CHAIR: Dr. Chetan Panchal, M S University, Baroda		
2.15 to 2.50 pm	Invited Talk: Prof. J. K. Rath, IIT Madras <i>The prospect of crystalline silicon based tandem solar cell</i>		
2.50 to 3.25 pm	Invited Talk: Prof. Pratima Agarwal, IIT Guwahati <i>Controlling the opto-electronic properties of nc-Si, a-Si:H films in multilayer structures</i>		
3.25 to 4.00 pm	Invited Talk: Prof. Hiranmay Saha/Dr S Maity, IEST, Shibpur <i>Role of passivating layer on efficiency enhancement of c-Si solar cells</i>		
4.00 to 4.20 pm	TEA BREAK		
4.20 – 5.00 pm	ORAL (5)		
	4.20 – 4.28 pm	S-0501	Effect of Diamond-like nanocomposite as Antireflection layer on Multi-crystalline Silicon Solar Cells by Debasish De, Institute of Technology, Techno India, Kolkata
	4.28 - 4.36 pm	S-0514	Optical absorption enhancement in Pyramid-Textured Microcrystalline Silicon Substrate based n-i-p p+Solar Cell by Muzaffar Imam, IIT Dhanbad
	4.36 – 4.44 pm	S-0504	Fabrication and Characterization of Silicon Nanowire/Polymer-reduced graphene Oxide Nanocomposite Heterojunction for Photovoltaic Applications by Bibhu P. Swain, NIT, Manipur
	4.44 - 4.52 pm	S-0510	Low Reflectance Nano/Micro-Structured Silicon by Cu Assisted Wet Chemical Etching For Solar Cell Applications by Sanjay K. Srivastava, CSIR-NPL, New Delhi
4.55 – 5.15 pm	Industry Presentation (IPGI, Chennai)		
5.15 – 5.50 pm	ORAL (4)		
	5.15 – 5.23 pm	S-0511	Tunnel recombination junction influence on the a-Si:H/SHJ tandem solar cell. By Ramakrishna Madaka, IIT, Madras
	5.23 - 5.31 pm	S-0502	Optimization of Front Metal Contact Design of Industrial Si Solar Cells Using Photoluminescence Imaging Technique By Siddharth Behera, NCPRE IIT Bombay
	5.31 – 5.39 pm	S-0517	Revisiting Electrical Performance Measurement Scheme of Industrial Crystalline Silicon Wafer Solar Cells by Dr. Ashok Kumar Sharma, IIT Bombay
	5.39 - 5.47 pm	S-0518	Photo assisted resonant tunneling in porous silicon: a potential nano-structure for hot carrier solar cell by Susmita Biswas, IEST Shibpur, Kolkata
5.50 - 7.00 pm	POSTER PRESENTATION (Paper ID Starting with P, S, O)		

20th December, 2019 Venue: LT 02, School of Electronics Engineering

SESSION –I (9.00 am to 1.00 pm)	SPECIAL SESSION		
	SESSION CHAIR: Dr. R Bhattacharya, IEST, Kolkata		
9.00 to 9.40 am	KEYNOTE01: Prof. R. K. Agarwal, Purdue University, USA <i>Recent Progress in the Synthesis of Inorganic Solar Cells via Solution Route</i>		
9.40 to 10.20 am	KEYNOTE 02: Prof. Vikram Kumar, IIT, New Delhi, India <i>Environmental Impact of Solar Photovoltaics</i>		
10.20 to 10.40 am	TEA BREAK		
SESSION-II	Perovskite/DSSC/Organic Solar Cells		
	SESSION CHAIR: Dr. Pratima Agarwal, IIT Guwahati		
10.40 to 11.20 am	KEYNOTE03 : David Cahen, Weizmann Institute of Science Rehovot, Israel <i>Putting Halide Perovskite Solar Cells in Perspective</i>		
11.20 to 11.40 am	ORAL (3)		
	11.20 – 11.28 am	P-0303	Design of a non-toxic and stable Na/Bi based double perovskite for photovoltaic applications <i>Shruthi Nair, Savitribai Phule Pune University, Pune, India</i>
	11.28 – 11.36 am	P -0306	Impact of hole transporting material on the performance and stability of perovskite solar cells <i>Easwaramoorthi Ramasamy, IIT Madras, India</i>
11.40 – 12.15 pm	Invited Talk : Prof. Hari Mohan Upadhyaya, LSBU, UK <i>Affordable PV Technologies for the future: Rural and Urban Perspectives</i>		
12.20 to 1.00 pm	ORAL (5)		
	12.20 – 12.28 pm	P -0308	Highly stable, low temperature curable carbon based, triple cation - mixed halide perovskite solar cells. <i>Reshma Dileep K, ARCI, Hyderabad</i>
	12.28 – 12.36 pm	P-0311	Recrystallization of Binary Lead-Tin Halide Perovskite for enhanced stability and improved surface morphology <i>Ujjwal Chitnis, NIT Raipur, Chhattisgarh, India</i>
	12.36-12.44 pm	P-0312	Effect of additives on the microstructure of organic-inorganic tin halide based PV absorber layer. <i>Mohammad Imteyaz Ahmad, IIT BHU, Varanasi, India</i>
	12.44-12.52 pm	P-0313	Charge Carrier Dynamics in CH ₃ NH ₃ PbI ₃ Perovskite Thin Film <i>Pilik Basumatary, IIT Guwahati, Assam, India</i>

1.00 to 2.15 pm	Group Photo and LUNCH BREAK		
SESSION –II (2.15 to 6.00 PM)	POLYCRYSTALLINE THIN FILM PV(CIGS/CdTe/CZTS)		
	SESSION CHAIR: Prof. Anup Mondal, IEST, Shibpur, West Bengal		
2.15 to 2.50 pm	Invited Talk: Dr. A. Romeo, Universita' di Verona, Italy <i>Perspectives and challenges for the next generation of thin film solar cells</i>		
2.50 to 3.20 pm	Invited Talk: Dr. Jehl Kao, Catalonia Institute of Energy Research, Spain <i>Strategies for efficiency enhancement of kesterite solar cells atIREC</i>		
3.20 to 3.55 pm	ORAL (4)		
	3.20 – 3.28 pm	C-0401	Synthesis of Cu-doped ZnS nanoparticles by chemical co-precipitation method Tulasi Ramakrishna Reddy Kotte, , Department of Physics, Sri Venkateswara University, Tirupati, India
	3.28 – 3.36 pm	C-0405	Compositional and Electrical analysis of RF Magnetron Sputtered Cu ₂ ZnSnS ₄ (CZTS) thin film absorbers for thin film solar cells G. Balaji, PSG College of Technology, Coimbatore, India
	3.36 – 3.44 pm	C-0407	Soft annealing effect on the properties of sputter grown Cu ₂ ZnSnS ₄ thin films for solar cell applications Subhash Pandharkar, SavitribaiPhule Pune University, Pune, India
	3.44 – 3.52 pm	C-0410	Effect of MgCl ₂ passivation on Bi incorporated CdTe absorber films:Alternative to CdCl ₂ passivation on Cu incorporated CdTe films Himanshu, Mohanlal Sukhadia University, Udaipur, India
3.55 to 4.15 pm	TEA BREAK		
4.15 to 4.45 pm	Invited Talk: Dr. B. Sarada, ARCI, Hyderabad <i>"CIGS based flexible thin-film Solar Cells by non-vacuum routes"</i>		
4.45 to 5.15 pm	Invited Talk: Dr. Nandu Chaure, Pune University, Pune <i>Thin films for Solar cell Applications</i>		
5.15 to 5.55 pm	ORAL (5)		
	5.15 – 5.23 pm	C-0449	Photo-electrochemical behavior of Indium selenide rich surface of CuInSe ₂ thin films deposited by single step electro-deposition technique Archana Mallik, NIT Rourkela, India
	5.23 – 5.31 pm	C-0415	Impact of post-annealing on structural and optical properties of CZTS thin films by DC sputtering Kalyan B. Chavan, SavitribaiPhule Pune University, Pune, India
	5.31 – 5.39 pm	C-0422	Synthesize and characterization of Cu doped CdTe thin films for solar cell application Subhasmita Ray, National Institute of Technology, Karnataka, India

	5.39 – 5.47 pm	C-0424	Fabrication of Al:ZnO/CZTS heterojunction solar by vacuum spray pyrolysis <i>M.C. Santhosh Kumar, NIT Tiruchirappalli, Tamil Nadu</i>
	5.47 – 5.55 pm	C-0427	Synthesis of Cu ₂ SnSe ₃ nanocrystals using hot injection method for photovoltaic application <i>Sandesh R. Jadkar, SavitribaiPhule Pune University, Pune, India</i>
6.00 to 7.00 pm	Poster Presentation (Paper ID Starting with C and D)		
7.30pm to 9.00pm	Founder's Dinner		

21st December 2019 Venue: LT-02, School of Electronics Engineering

SESSION –I (9.30 am to 1.00 pm)	GENERAL SESSION		
	SESSION CHAIR: Dr. S Venkata Prasad Bhat, SRM Research Institute, Tamil Nadu		
9.30 to 10.05am	Invited Talk: Dr. Raghu Bhattacharya, IEST, Shibpur, Howrah <i>Self/Easy Cleaning of Solar Panels, With and Without Water</i>		
10.05to 10.40am	Invited Talk: T. Som, IoP, Bhubaneswar <i>Hole-blocking solar cells towards enhanced efficiency</i>		
10.40 to 11.00 am	TEA BREAK		
11.00 – 11.20am	ORAL (3)		
	11.00 – 11.08 am	C-0430	Drop on demand inkjet printing of aqueous precursor ink for CuInGaSe ₂ thin film solar cell <i>Brijesh Yadav, Indian Institute of Technology Hyderabad, India</i>
	11.08 – 11.16 am	C-0440	Electrochemically synthesized p-SnS thin film on conducting glass substrate and its application photo-electrochemical solar cell <i>Bibhuti bhushan Show, Jadavpur University, Kolkata, India</i>
11.20 to 11.50 am	Invited Talk: Dr. Chetan Panchal, MS Baroda University, Baroda <i>Fiber Laser Scribed Bilayer Molybdenum Thin Films Substrate for 2 inch-square CIGS Solar Cell Module</i>		

11.55 to 12.15 pm	ORAL (3)		
	12.08 – 12.16 pm	D-0608	Nickel Doped Molybdenum Oxide As A Low Cost Replacement For Platinum In Dye Sensitized Solar Cells Soumyajit Maitra, University of Calcutta, Kolkata, India
	12.16 – 12.24 pm	O-0713	Effect of natural convection air-flow channel on the electrical and thermal performance of photo-voltaic thermal system integrated with phase change materials (PV-T/PCM) Om Prakash Singh, IIT(BHU) Varanasi, India
12.20 to 1.00 pm	Valedictory Session and Certificate Distribution		
1.00 to 2.00 pm	Lunch		
2.00 to 7.30 pm	Puri Visit (on payment basis)		