

## IWPSD 2021 Best Poster Awards

### Dr. SK Aggarwal Memorial Award

S.No.	Date	Symposium	Paper ID	Name	Affiliation	Abstract Title	Category
1	15-Dec-21	Semiconductor Crystal growth, epitaxy and characterization	328	Bhaveshkumar Kamaliya	IIT Bombay	3D Nanostructures on Ge (100) Surface by Focused Ion Beam (FIB) Induced Self-Organization for Enhanced Light Absorption	SK Aggarwal Memorial Award
2	15-Dec-21	Semiconductor Crystal growth, epitaxy and characterization	119	Geetanjali Vashisht	RRCAT, Indore	Impact of disorder on the charge carrier transport and recombination properties in asymmetrically doped InGaAs/GaAs QWs probed by magneto-PL and PC measurements	SK Aggarwal Memorial Award
3	15-Dec-21	2D Materials and Devices	312	Suman Mandal	IISc Bangalore	Graphene growth by one-dimensional nucleation	SK Aggarwal Memorial Award
4	15-Dec-21	Compound Semiconductors and Devices	318	Taslim Khan	IIT Delhi	Effect of Variation in Ambient Oxygen Pressure on the Growth of $\beta$ Ga <sub>2</sub> O <sub>3</sub> thin films by Pulsed Laser Deposition Technique	SK Aggarwal Memorial Award
5	16-Dec-21	Oxide Semiconductors and devices	92	Anamika Kem	University of Delhi	Cost-effective green synthesis of ZnO nanoparticles using limon by sol gel method for photonic applications	SK Aggarwal Memorial Award
6	16-Dec-21	Photovoltaics and Energy Harvesting	35	Ms. Arti Gupta	IIT Hyderabad	Micro-texturing of Silicon using KOH: An Additive Free, Facile and Cost-effective Approach with Minimal Chemical Waste	SK Aggarwal Memorial Award

7	16-Dec-21	Oxide Semiconductors and devices	337	Mr. Arun M	IISER Thiruvananthapuram	Dynamic tuning of ENZ region of ITO and sensing using a tapered optical fiber	SK Aggarwal Memorial Award
8	15-Dec-21	2D Materials and Devices	133	Dibya Sankar Das	TIFR, Mumbai	Excitons in 2H-MoS2 under magnetic fields	SK Aggarwal Memorial Award
9	16-Dec-21	Photovoltaics and Energy Harvesting	385	Dipti Umed Singh	IISER Pune	Temperature tunable transmission control of thermochromic VO2 hybridized with IR - 1D photonic crystals for Smart windows	SK Aggarwal Memorial Award
10	15-Dec-21	MEMS and NEMS Devices	357	Shalini Singh	IIT Delhi	Energy Harvesting From water droplet motion on Wetted Stripped Channels	SK Aggarwal Memorial Award
11	15-Dec-21	2D Materials and Devices	63	Shreerupa Biswas	NIT, Durgapur	Enhancement of low-temperature NO2 sensing via two steps hydrothermal synthesized ZnO nanoparticles loaded MoS2 nanoflowers based sensor	SK Aggarwal Memorial Award
12	16-Dec-21	Emerging Memory and Logic Devices	345	Sreya Pal	S. N. Bose National Centre for Basic Sciences	Spin Texture Driven Reconfigurable Magnonics in Diatomic Nanodot Array	SK Aggarwal Memorial Award
<b>JC Bose Award</b>							
13	16-Dec-21	Organic Semiconductors and Flexible Electronics	212	Ajoy Mandal	IIT Kharagpur	Organic field-effect transistors (OFET) based ultra-fast SARS-CoV-2 sensors using angiotensin converting enzyme 2 (ACE2) as receptor molecules	JC Bose Award
14	16-Dec-21	Organic Semiconductors and Flexible Electronics	292	Chandra Kant	IIT Kanpur	Inkjet Printing of Phosphorescent Emissive	JC Bose Award

						Material for Organic Light-Emitting Diodes	
15	15-Dec-21	III-Nitrides: Materials and Devices	392	Nipun Sharma	IIT Jodhpur	Ultrasensitive detection of Pb <sup>2+</sup> ions using g-C <sub>3</sub> N <sub>4</sub> functionalized AlGa <sub>N</sub> /Ga <sub>N</sub> High Electron Mobility Transistors	JC Bose Award
16	15-Dec-21	2D Materials and Devices	376	Sandeep Mondal	IISc Bangalore	Inkjet-printed MoS <sub>2</sub> transistors and circuits	JC Bose Award
17	15-Dec-21	MEMS and NEMS Devices	349	Samridh Sharma	IISc Bangalore	Suspended Microchannel Resonator fabrication using wafer bonding	JC Bose Award
18	15-Dec-21	III-Nitrides: Materials and Devices	240	Shradha Gupta	SSPL, DRDO	Thermal Admittance Spectroscopy of AlGa <sub>N</sub> /Ga <sub>N</sub> HEMT Structure	JC Bose Award
19	15-Dec-21	Semiconductor Devices for Quantum Technologies	279	Sonia Sarkar	IIT Bombay	Efficient signal processing For Low-cost Magnetometry using Nitrogen Vacancy Center in Diamond	JC Bose Award
20	16-Dec-21	Device Simulation and Modeling	72	Srest Somay	IIT Patna	Impact of Various Device Parameters on the Series Resistance of Perovskite Solar Cell	JC Bose Award