

Evaluation Results of NCTU- IITD MFIRP Proposals

We are pleased to inform you that 18 NCTU-IITD MFIRP proposals have been approved for the support. Other details are given in the table below.

List of Approved Project Proposals

Sr. No.	Proposal No.	MFIRP Proposal ID	Title of Proposal	IITD	NCTU
				PI & Dept.	PI & Dept.
1	200	140	Glancing angle deposition ZnGa ₂ O ₄ nanostructures based UVC LED for improved light extraction and current spreading properties	Dr. Jitendra Pratap Singh, Dept. of Physics	Dr. Ray Hua Horng, Graduate Institute of Precision Engg.
2	199	141	Investigation of New Memory Devices and Circuits for Novel Emerging Applications	Dr. Manan Suri, Dept. of Electrical Engineering	Dr. Tuo-Hung Hou, Dept. of Electronics Engg.
3	201	142	Optimising microstructures of textured nano twinned copper for electronic packaging	Dr. Jayant Jain, Dept. of Material Science & Engineering	Dr. Chih Chen, Dept. of Materials Sci. & Engg.

4	198	143	Near Infrared-responsive Semiconductor Nanostructure Decorated Metal Oxide Photo-anodes for Highly Efficient Solar Hydrogen Generation via Photo-electrochemical Water Splitting	Dr. Pravin Popinand Ingole, Dept. of Chemistry	Dr. Yung-Jung Hsu, Dept. of Materials Science and Engg.
5	202	144	White light emission devices from 2D organic/inorganic layered halide perovskites	Dr. Sameer Sapra, Dept. of Chemistry	Dr. Kien Wen Sun, Dept. of Applied Chemistry
6	204	145	Tracking of Abraxane by selective autophagy pathways in lung cancer cells using nanodiamonds	Dr. Jayanta Bhattacharyya, Centre for Biomedical Engineering	Dr. Jui-I Chao, Dept. of Biological Science and Technology
7	205	146	Radiation effects in the electrical characteristics and time-dependent reliability of GaN-on-Si power MIS-HEMTs	Dr. Rajendra Singh, Dept. of Physics	Dr. Tian-Li Wu, Dept. of Materials Science & Engg.
8	196	147	Investigation of the Phosphate based Polyanionic compounds as Cathode Materials for Sodium Ion Batteries	Dr. Rajendra Singh Dhaka, Dept. of Physics	Dr. Jeng-Kuei Chang, Dept. of Materials Science and Engg.

9	208	150	Developing self-monitoring, self-assembled protein particle based drug delivery system for biomedical application	Dr. Tapan Kumar Chaudhuri, School of Biological Sciences	Dr. Chia-Ching Chang, Dept. of Biological Science and Technology
10	210	152	Hardware Realization for Neuromorphic Computing using MEMS Oscillator Networks	Dr. Dhiman Mallick, Dept. of Electrical Engineering	Dr. Yi Chiu, Dept. of Electrical and Computer Engg.
11	211	153	Multicompartmental Polymer Nanoparticles for Programmable Drug Delivery and Deep-Tissue Bio-imaging	Dr. Sampa Saha, Dept. of Material Science & Engineering	Dr. Yan- Hsiang Chan, Dept. of Applied Chemistry
12	212	154	DC and RF Reliability of GaN-HEMT MIS fin-type short-channel devices	Dr. Abhisek Dixit, Dept. of Electrical Engineering	Dr. HENG-TUNG HSU, Dept. of Electrical Engineering
13	203	155	Roles of external stress and voltage in mediating the magnetic anisotropy of CoFeB/MgO-based magnetic tunnel junction	Dr. Pushpapraj Singh, Centre for Applied Research in Electronics (CARE)	Dr. Yu-Chieh Lo, Dept. of Materials Science and Engg.
14	213	156	Millimeter wave radar imaging for automotive applications	Dr. Seshan Srirangarajan, Dept. of Electrical Engineering	Dr. Po-Hsuan Tseng, Dept. of Electrical and Computer Engg.

15	214	157	GaN Power Amplifier MMIC design for High Bands (24GHz - 40GHz) 5G Applications	Dr. Ankur Gupta, Centre for Applied Research in Electronics	Dr. Chun-Hsiung Lin, International College of Semiconductor Technology
16	215	158	ENERGY HARVESTING ENABLED SUSTAINABLE COMMUNICATION NETWORKS	Dr. Swades Kumar De, Dept. of Electrical Engineering	Dr. Li-Chun Wang, Dept. of Electrical Engg.
17	216	159	Development of high performance gas sensors based on 2D layered thin films for agriculture and environmental applications.	Dr. B R Mehta, Dept. of Physics	Dr. Hsiao Wen Zan, Dept. of Photonics
18	217	160	Material Design & Characterization for Spin-Orbit Torque based Devices	Dr. Ratanamala Chatterjee, Dept. of Physics	Dr. Y.C. Tseng, Dept. of Materials Science and Engg.

Note: The PI of the approved projects are requested to initiate the New Project Initiation (NPI) in IRIS with effect from 1st April, 2020 as the start date for the initial project duration of one year.