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Nano carbon based field assisted electron emitter arrays for development of electrical propulsion for a nano satellite

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Small Satellites play a significant role in the era of Information & Communication Technology (ICT) and Internet of Things (IoT). The advancement in technology today allows the satellites to become smaller and yet carry greater capacity and capability payloads. Small satellites are expected to be used for applications in domains including environment, agriculture, climate change, mapping, navigation, and Scientific Research. The Indian Space Research Organization (ISRO) which has launched over 9

student satellite is expanding the scope of small satellite launch. The extension of useful life of these small satellites depends very much on the ability to provision propulsion capability in these satellites. Hence the current effort is to develop indigenous capability for the growth and study of nano carbon based Field Assisted Electron Emitter Arrays to be used in Field Emission Electrical Propulsion system (FEED) for a nano satellite.

Biography

Nirupama M P is currently working as Faculty at BML Munjal University. She is a recipient of Ph. D assistantship under TEQIP and pursuing Ph. D from Jain University, Bangalore. She received M.Tech (Electronics Engineering) degree from B.M. Sreenivasiah College of Engineering, Bangalore and B.E. (Electronics & Communication Engineering) from Dayanand Sagar College of Engineering, Bangalore. She involves herself in social work to support and empower women and children. She also obtained Post Graduate Diploma in Human Rights from Indian Institute of Human Rights, New Delhi.

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