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Nanocarbon based field assisted electron emitter arrays for the development of electrical propulsion for 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) has launched over 9 student satellites and also 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 development of nanocarbon based Field Assisted Electron Emitter Arrays to be used in Field Emission Electrical Propulsion (FEED) system for nanosatellite.

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