

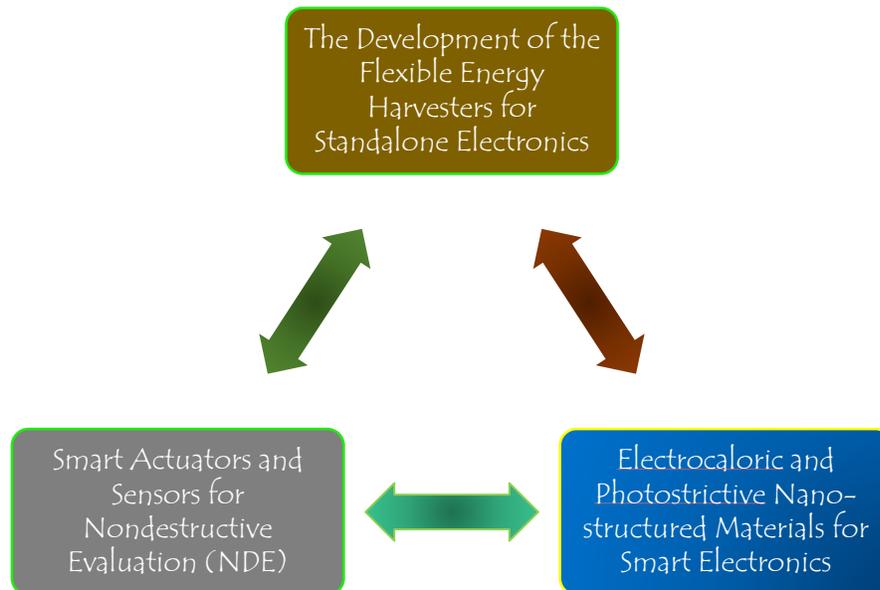
**Research Group Name:**

Flexible & Multi-Functional Materials Device Lab (FM<sup>2</sup>D Lab)

**Lab logo:**

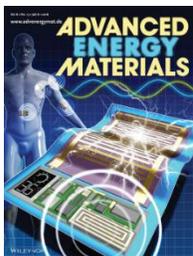


FM<sup>2</sup>D Lab research goal is to develop '*Standalone Flexible Electronic Systems*'. This technology could provide interesting opportunities for next-generation portable electronics. Current trends in automation, the so-called industry 4.0, involve cyber-physical systems that utilize cloud computing and internet of things (IoT) to monitor manufacturing processes and the structural health of objects in order to enhance decision making capabilities.



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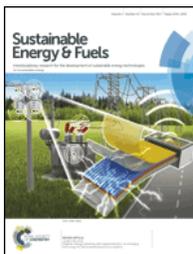
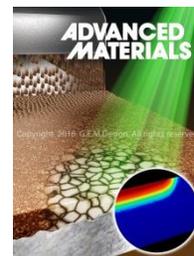
Advanced Energy Materials (IF: 16.721)

Self-powered Wireless Sensor Node Enabled by an Aerosol-deposited PZT Flexible Energy Harvester (Adv. Energy Mater. 13/2016)

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Magnetic Energy Harvesting with Magnetolectrics: An Emerging Technology for Self-Powered Autonomous Systems

HOT Articles: From the themed collection, 10/2017

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Advanced Materials Interfaces (IF: 4.279)

Room-Temperature Solid-State Grown  $WO_{3-x}$  Film on Plastic Substrate for Extremely Sensitive Flexible  $NO_2$  Gas Sensors (Adv. Mater. Inter., 2017, in press)



**Ph.D Student:**

**Name of the student:** J Kaarthik

**Title of PhD Thesis:** Multifunctional Materials for Energy Harvesting and Sensors