

List of Publications

List of Publications in International Journals

- **Shashi Tiwari**, Arun Kumar Singh, Leela Joshi, P. Chakrabarti, W. Takashima, Keiichi Kaneto, Rajiv Prakash, “Poly-3-hexylthiophene based organic field-effect transistor: Detection of low concentration of ammonia”, **Sensors and Actuators B** 171– 172 (2012) 962–968.
- **Shashi Tiwari**, Arun Kumar Singh, Rajiv Prakash, “Poly(3-hexylthiophene) (P3HT) / Graphene Nanocomposite Material based Organic Field Effect Transistor with Enhanced Mobility”, **J. Nanosci. Nanotechnol.** 14, (2014) 2823–2828.
- **Shashi Tiwari**, Wataru Takashima, Sirkazhi Krithivasan Balasubramanian, Shougo Miyajima, Shuichi Nagamatsu, Shyam Sudhir Pandey, and Rajiv Prakash, “P3HT-fiber-based field-effect transistor: Effects of nanostructure and annealing temperature” **Jpn. J. Appl. Phys.** 53, (2014) 021601-7.
- **Shashi Tiwari**, Wataru Takashima, S. Nagamatsu, S. K. Balasubramanian, Rajiv Prakash, “ A comparative study of spin coated and floating film transfer method coated poly (3- hexylthiophene)/poly (3-hexylthiophene)-nanofibers based field effect transistors”, **J. Appl. Phys.** 116, (2014) 094306-7.
- **Shashi Tiwari**, Wataru Takashima, S. Nagamatsu, S. K. Balasubramanian, Rajiv Prakash, “Doping Technology to Control the On-set and On-state Characteristics of Polymer-based Field-effect Transistor”, **Under revision** in the J. Organic Electronics.
- **Shashi Tiwari**, Vyom Parashar, Rajiv Prakash, “Topological Insulator Bi₂Se₃/P3HT Nanocomposite based Field Effect Transistor,” **Under communication** in the J. Organic Electronics.
- **Shashi Tiwari**, A. K. Singh, W. Takashima, K. Kaneto, S. K. Balasubramanian, and R. Prakash Poly-3-hexylthiophene (P3HT)/Graphene Nanocomposite Field-Effect-Transistor as Ammonia Detector”, **Accepted** as a chapter in the book “**Innovations in Nanomaterials**” Nova Science Publishers Inc., New York, USA

International Conference Papers

- **Shashi Tiwari**, Shashi Tiwari, Rajiv Prakash, S. K. Balasubramanian, “Study of Electrical Properties of Poly-3-alkylthiophen (P3AT) Derivatives P3HT, P3BT and P3DDT based Field Effect Transistors”, IEEE Xplore, International Conference on INDICON (2013).
- **Shashi Tiwari**, Sudha Tiwari, Rajiv Prakash, S. K. Balasubramanian,” Fabrication and Characterization of Poly-3-hexylthiophene based Organic Thin Film Transistor”, Published in conference proceedings of 1st International Conference on Emerging Electronics (ICEE-2012).
- **Shashi Tiwari**, Sudha Tiwari³, Rajiv Prakash², S. K. Balasubramanian, “Fabrication and Characterization of Organic Field Effect Transistor With Poly (3-butylthiophene-2,5-diyl) Thin Film”, Published in conference proceedings of International Conference on Agile Manufacturing (ICAM)2012.
- **Shashi Tiwari**, Sudha Tiwari, Rajiv Prakash, S. K. Balasubramanian, “Graphene oxide/conducting polymer hybrid nanocomposite material based Thin Film Transistor Published in conference proceedings of International Conference on Nanoscience and Nanotechnology ICNN-2013.