Author's Journal Publications

1. **A. Verma,** P. K. Sahu, V. Chaudhary, A. K. Singh, V. N. Mishra, and R. Prakash, "**Fabrication and Characterization of P3HT/MoS_2 Thin-Film Based Ammonia Sensor Operated at Room Temperature**," ***IEEE Sensors Journal***, vol. 22, no. 11, pp. 10361-10369, 1 June 1, 2022, ***doi: 10.1109/JSEN.2022.3170698***.

2. **A. Verma,** V. N. Mishra, and R. Prakash, "**A Self-Aligned, Solution-Processed Low-Voltage Operated Organic Thin-Film Transistor for Ammonia Gas Sensing at Room Temperature**," ***IEEE Sensors Journal***, vol. 23, no. 6, pp. 5561-5568, 15 March 15, 2023, ***doi: 10.1109/JSEN.2023.3236438.***

3. **A. Verma**, V. N. Mishra, and R. Prakash, "**Self-Assembled Au/P3HT, High-k Bilayer Dielectric-Based Solution Processed Low Voltage OTFT for Multiparametric Ammonia Sensor at Room Temperature**," ***IEEE Transactions on Electron Devices*****,** vol. 70, no. 1, pp. 281-287, Jan. 2023, ***doi: 10.1109/TED.2022.3224092***.

4. **A. Verma**, S. Gupta, V. N. Mishra, and R. Prakash, "**A Low-Voltage, Self-Oriented Organic Polymer Nanocomposite-Based Flexible TFT for Ammonia Gas Sensing at Room Temperature**," ***IEEE Transactions on Electron Devices*****,** vol. 70, no. 5, pp. 2453-2459, May 2023, ***doi: 10.1109/TED.2023.3255835.***

5. **A. Verma**, P. Kumar, V. K. Singh, V. N. Mishra, and R. Prakash, "**Introduction of graphene oxide nanosheets in self-oriented air-stable poly(3-hexylthiophene-2,5-diyl) to enhance the ammonia gas sensing of a p-channel thin film transistor**," ***Sensors Actuators B Chem***., vol. 385, p. 133661, Jun. 2023, ***doi: 10.1016/J.SNB.2023.133661***.

6. **A. Verma**, V. N. Mishra, and R. Prakash, "**Air-Stable Highly Sensitive Self-Assembled P3HT/GQD Nanocomposite-Based Organic Thin-Film Transistor for Multiparametric H_2S Real-Time Detection at Room Temperature**," ***IEEE Sensors Journal*****,** vol. 23, no. 1, pp. 127-134, 1 Jan.1, 2023, ***doi: 10.1109/JSEN.2022.3221997.***

7. **A. Verma,** D. Kumar, V. N. Mishra, and R. Prakash, "**A Self-Assembled Polymer Nanocomposite-Based Low-Voltage White Light Phototransistor With UV-Cured Synthesized LaZrOx Dielectric**," ***IEEE Transactions on Electron Devices***, vol. 70, no. 7, pp. 3575-3581, July 2023, ***doi: 10.1109/TED.2023.3274500.***

8. V. K. Singh, **A. Verma**, P. Kumar and V. N. Mishra, **"Solution-processed, Highly-efficient Organic Field-effect Transistor based Hydrogen Sulfide Gas Sensor at sub-ppm Regime,"** in **IEEE Sensors Journal, *doi: 10.1109/JSEN.2023.3288932 (Accepted).***

Author's Conference Publications

Accepted

1. **Ankit Verma**, Varun Kumar Singh, Prashant Kumar, V. N. Mishra, R. Prakash, "**A Self-Oriented polymer/Carbon Dot nanocomposite-based TFT for H_2S gas sensor using Floating Film Transfer Deposited Sensing Film**." 2023 ***International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience & Nanotechnology (5NANO)*** ***(Accepted).***

2. Varun Kumar Singh, **Ankit Verma**, Prashant Kumar, V. N. Mishra, R. Prakash, "**Fully Solution-Processed, Small Molecule Organic Polymer based One-Step Fabrication of Ammonia Gas sensor**." ***2023 International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience & Nanotechnology (5NANO)*** ***(Accepted).***

3. **Ankit Verma,** V. K. Singh, V. N. Mishra, **"Design and Simulation of Low leakage current SRAM cell design with Sleepy Stack Technique,"** 2023 ***International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience & Nanotechnology (5NANO)*** ***(Accepted).***

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