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## Author's Journal Publications

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1. 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*, vol. 23, no. 15, pp. 16600-16607, 1 Aug.1, 2023, doi: [10.1109/JSEN.2023.3288932](https://doi.org/10.1109/JSEN.2023.3288932).
2. V. K. Singh and V. N. Mishra, "Solution Processed Highly Efficient H<sub>2</sub>S Gas Sensor with Sub-ppb Detection Limit Based on Self-Aligned Thin Film of PCPDTBT Decorated with CdS Nanoparticles," in *IEEE Transactions on Electron Devices*, vol. 70, no. 8, pp. 4351-4358, Aug. 2023, doi: [10.1109/TED.2023.3287509](https://doi.org/10.1109/TED.2023.3287509).
3. V. K. Singh and V. N. Mishra, "HfLaOx High-k Dielectric Based, Fully Solution Processed OFET H<sub>2</sub>S Gas Sensor at Sub-ppm Regime, Using Photoirradiated-SVA Annealed PCPDTBT/MoS<sub>2</sub> Nanocomposite Thin Film," in *IEEE Sensors Journal*, vol. 23, no. 20, pp. 24239-24246, 15 Oct.15, 2023, doi: [10.1109/JSEN.2023.3312334](https://doi.org/10.1109/JSEN.2023.3312334).
4. 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](https://doi.org/10.1016/J.SNB.2023.133661).
5. A. Verma, V. K. Singh and V. N. Mishra, "A Low-Voltage Operated Organic TFT-Based Inverter with Solution-Processed LiZnOx Dielectric," in *IEEE Transactions on Electron Devices*, vol. 70, no. 9, pp. 4815-4821, Sept. 2023, doi: [10.1109/TED.2023.3297557](https://doi.org/10.1109/TED.2023.3297557).

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**Author's Conference Publications**

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**Accepted**

1. 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 (SNANO) (Accepted)*.
2. Ankit Verma, Varun Kumar Singh, Prashant Kumar, V. N. Mishra, R. Prakash, “A Self-Oriented polymer/Carbon Dot nanocomposite-based TFT for H<sub>2</sub>S gas sensor using Floating Film Transfer Deposited Sensing Film.” 2023 *International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience & Nanotechnology (SNANO) (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 (SNANO) (Accepted)*.