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# **List of Research Publications**

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1. **Shipra Gupta**, Bhola N. Pal, Rajiv Prakash “Improved ammonia sensitivity and broadband photo-detection by using PBTTT-C14/WS2-QDs nano-heterojunction based thin film transistor” *Sensors and Actuators: B. Chemical*, **2024**, 393, 134251;  
<https://doi.org/10.1016/j.snb.2023.134251>
2. **Shipra Gupta**, Bhola N. Pal, Rajiv Prakash “Enhancement of ammonia gas sensitivity and selectivity by depleted layer of PBTTT-C14/MoS2-QDs heterojunction based thin film transistor” *Sensors and Actuators: B. Chemical*, **2023**, 414, 135872;  
<https://doi.org/10.1016/j.snb.2024.135872>
3. **Shipra Gupta** and Bhola Nath Pal “Organic thin film transistor with aligned nanowires/thin film hybrid channel for low concentration detection of NH<sub>3</sub> at room temperature” *ACS Appl. Electron. Mater.* **2024** <https://doi.org/10.1021/acsaelm.4c01410>
4. **Shipra Gupta**, Bhola N. Pal, Rajiv Prakash “Development of Low voltage operating organic thin film transistor for ammonia and photo sensing applications” (under writing)
5. Ankit Verma , **Shipra Gupta**, V. N. Mishra, and Rajiv 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, **2023** <https://doi.org/10.1109/TED.2023.3255835>
6. Anupama Chanda, **Shipra Gupta**, M. Vasundhara, Shalik R. Joshi, Geeta R. Muttae and Jai Singh “Study of structural, optical and magnetic properties of cobalt doped ZnO nanorods” *RSC Adv.*, **2017**, 7, 50527) DOI: 10.1039/c7ra08458g

## List of Research Publications

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7. J. Singh, A. Chanda, **S. Gupta**, P. Shukla, and V. Chandra “Effect of cobalt doping on structural and optical properties of ZnO Nano-particles” *AIP Conference* 1731, 050091, **2016** <http://dx.doi.org/10.1063/1.4947745>

## **List of Conferences/Workshop/Webinar**

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1. **International conference - Shipra Gupta**, Bhola N. Pal, Rajiv Prakash “Enhancement of Ammonia gas sensitivity at room temperature by Polythiophene/QDs hybrid film based OFET fabricated via Floating film transfer method”  
  
(Poster presentation in ICSPT-2024 - Separation & Purification Techniques: Environmental Applications)
2. **International Conference - Shipra Gupta**, Bhola N. Pal, Rajiv Prakash Enhancement of Ammonia gas sensitivity and selectivity at room temperature by PBTTT/MoS<sub>2</sub>-QDs hybrid film based OFET fabricated via Floating film transfer method  
  
(Poster presentation in Asian polymer association (APA)-2023 – Polymers for Advanced Technology)
3. **International Conference - Shipra Gupta**, Jai Singh, Anupama Chanda “Dilute Magnetic Semiconducting Oxides: Cobalt doped ZnO nanoparticles”  
  
(Poster presentation in IPCBS-2017- Interface of Physical, Chemical and Biological Sciences)
4. Workshop on “Materials characterization techniques”(Online) (2020).
5. Attended One day workshop on LATEX, IIT (BHU) (2019).
6. 45th seminar on crystallography (NSC 45) (2018).
7. One day workshop on Nuclear magnetic Resonance Spectroscopy and its applications in Physics, Chemistry and Biology (2015).

## **List of Conferences/Workshop/Webinar**

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1. **Best Poster Award (International Conference) - Shipra Gupta**, Bhola N. Pal, Rajiv Prakash Enhancement of Ammonia gas sensitivity and selectivity at room temperature by PBTTT/MoS<sub>2</sub>-QDs hybrid film based OFET fabricated via Floating film transfer method  
**(Poster presentation in Asian polymer association (APA)-2023 – Polymers for Advanced Technology)**
  
2. **Best Poster Award (International Conference) - Shipra Gupta**, Jai Singh, Anupama Chanda “Dilute Magnetic Semiconducting Oxides: Cobalt doped ZnO nanoparticles”  
**(Poster presentation in IPCBS-2017- Interface of Physical, Chemical and Biological Sciences)**