Author's Publications

Thesis Publications

1. **S. Singh** and S. Jit, "**Thermally grown $MoSe_2$ thin film-based n-$MoSe_2$/p-Si broadband photodetector**," ***IEEE Transactions on Electron Devices***, vol. 71, no. 1, pp. 689–694, **Jan. 2024**, doi: 10.1109/TED.2023.3339590.

2. **S. Singh** and S. Jit, **"Thermally Grown $MoSe_2$ Thin Film Based MSM Broadband Photodetector.,"** ***IEEE Photonics Technology Letters***, vol. 36, no. 18, pp. 1105–1108, **Sept. 15, 2024**, doi: 10.1109/LPT.2024.3442969.

3. **S. Singh**, A. P. Singh and S. Jit, **"High Performance ZnO CQDs/$MoSe_2$ Heterojunction UV-Visible Broadband Photodetector,"** ***IEEE Photonics Technology Letters***, vol. 37, no. 4, pp. 247-250, **15 Feb.15, 2025,** doi: 10.1109/LPT.2025.3535626.

Conference Publications

1. **S. Singh**, J. S. Rana and S. Jit, **"Fabrication and Characterization of Directly Synthesized WSe_2 Nano-flowers for NO_2 Sensing,"** ***2024 IEEE 5th Women in Technology Conference (WINTECHCON),*** Bengaluru, India, 2024, pp. 1-4, doi: 10.1109/Wintechcon61988.2024.10837726.

2. Abhinav Pratap Singh**, Shikha Singh**, J. S. Rana and Satyabrata Jit, **"Solution processed colloidal ZnO quantum dots/PQT 12 heterojunction-based UV visible photodetector."** ***11th the International Conference on Materials for Advanced Technologies (ICMAT-2023),*** Suntec **Singapore, 2023**.

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