

RESUME

Five Year Work

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- ❖ **Pursuing Ph.D** in Physics from GKV, Haridwar under the supervision of Prof. L. P. Purohit from 2016.

❖ **LIST OF RESEARCH PUBLICATIONS**

1. **Vijay S. Rana**, J.K. Rajput, T.K. Pathak, L.P. Purohit, Influence of N₂ flow rate on UV photodetection properties of sputtered p-ZnO/n-Si heterojunctions, **Colloids and Surfaces A** 586 (2020) 124103. **(I.F. 3.99)**
2. **Vijay S. Rana**, J.K. Rajput, T.K. Pathak, L.P. Purohit, Cu sputtered Cu/ZnO Schottky diodes on fluorine doped tin oxide substrate for optoelectronic applications, **Thin Solid Films** 679 (2019) 79–85. **(I.F. 2.03)**
3. **Vijay S. Rana**, J.K. Rajput, T.K. Pathak, L.P. Purohit, Multilayer MgZnO/ZnO thin films for UV photodetectors, **Journal of Alloys and Compounds** 764 (2018) 724-729. **(I.F. 4.65)**

CONFERENCES

International Conferences

1. Multilayer MgZnO on ZnO Thin Films for UV Photodetectors, International Symposium on Functional Materials, April 13-15, 2018, Chandigarh University, Chandigarh, India.
2. Influence of Cd doping in n-ZnO/p-Si Heterojunction for UV- Photodetection, International Conference of Nanotechnology and Nanoscience, September 22-24, 2017, B.B.A. University, Lucknow, India.
3. International Webinar on “Planning & implementation of Natural resources Conservations” 30 May 2020, Teerthankar Mahaveer University Moradabad, India.

National Conferences

- 3.** Comparative study of ZnO based heterojunctions grown by sol-gel method, XXXII annual IAPT convention 2017 and National Symposium on Recent Trends in Physics at different scales, October 29-31, 2017, Gurukula Kangri Vishwavidyalaya, Haridwar, India.
- 4.** Cu Schottky diodes on ZnO thin films by sputtering technique, National Conference on Science & Technology: Rural Development, February 15-16, 2020, The India Science Congress Association: Haridwar Chapter Gurukula Kangri Vishwavidyalaya, Haridwar, India.