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QUALIFICATIONS	**Ph.D. (physical electronics and nanotechnology)** Linköping University Sweden 3-11-2007 To 11-11-2011 **M.Sc. Physics(1st Div)** The Islamia University of Bahawalpur 15-08- 2002 To 31-12- 2004 **BSc. (1st Div)** The Islamia University of Bahawalpur 1-10-,2000 To 30-04-2002
WORK &RESEARCH EXPERIENCE	**Assistant professor of Physics** King Saud University Riyadh Saudi Arabia 03.03.2016 going on **Process engineer** Thinfilm Electronics AB Linköping Sweden 06- 06-2012 To 30-07-2013
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JOURNAL PUBLICATIONS	1. **Enhancement of external quantum efficiency and quality of heterojunction white LEDs by varying the size of**

	ZnO nanorods **N. Bano,** I. Hussain, S. Sawaf, Abeer Alshammari, F. Saleemi Nanotechnology (2017) Accepted 2. **Annealing effect on the electrical and optical properties of Au/n-ZnO NWs Schottky diodes white LEDs** M. Y. Soomro, S. Hussain , **N. Bano**, I. Hussain, O. Nur and M. Willander, Superlattices and Microstructures 62. 200 (2013). 3. **Hybrid organic zinc oxide white-light-emitting diodes on disposable paper substrate** M. Y. Soomro, S. Hussain , **N. Bano**, I. Hussain, O. Nur and M. Willander, Phys. Status Solidi A 210(8), 1600 (2013). 4. **Systematic study of Interface trap and barrier inhomogeneities using I–V-T characteristics of Au/ZnO nanorods Schottky diode** I. Hussain, M. Y. Soomro, **N. Bano**, O. Nur and M. Willander J. Appl. Phys. 113, 234509 (2013). 5. **Interface trap characterization and electrical properties of Au-ZnO nanorod** **Schottky diodes by conductance and capacitance methods** I. Hussain, M. Y. Soomro, **N. Bano,** O. Nur, and M. Willander J. Appl. Phy. 112, 064506 (2012) 6. **Enhancement of zinc interstitials in ZnO nanotubes grown on glass substrate by the hydrothermal method** M. Y. Soomro, I. Hussain, **N. Bano**, S. Hussain, O. Nur and M. Willander, Appl. Phys A 106:151(2012) 7. **Growth and characterization of ZnO nanotubes on disposable-flexible paper substrates by low temperature chemical method** M. Y. Soomro, I. Hussain, **N. Bano**, Jun Lu, O. Nur and M. Willander Journal of Nanotechnology Volume, Article ID 251863, 6 pages.(2012)

	8. **Nanoscale elastic modulus of single horizontal ZnO nanorod using nano indentation experiment** M. Y. Soomro, I. Hussain, **N. Bano**, E. Broitman, O. Nur and M. Willander, Nanoscale Research Letters Letters, 7:146 (2012). 9. **Piezoelectric power generation from zinc oxide nanowires grown on paper substrate** M. Y. Soomro, I. Hussain, **N. Bano**, O. Nur and M. Willander Phys. Status Solidi RRL, 1–3 (2011) 10. **Study of intrinsic white light emission and its components from ZnO-nanorods/p-polymer hybrid junctions grown on glass substrates** I. Hussain, **N. Bano**, S. Hussain, O. Nur and M. Willander, J. Mater Sci.46, 7437(2011). 11. **Study of the distribution of radiative defects and reabsorption of the UV in ZnO nanorods-organic hybrid white LEDs** I. Hussain, **N. Bano**, S. Hussain, Y. Soomro, O. Nur, and M. Willander, Materials 4, 1260-1270 (2011). 12. **Intrinsic white light emission from zinc oxide nanorods heterojunctions on large area substrates** Magnus Willander, O. Nur, S. Zaman, A. Zainelabdin, G. Amin, J. R. Sadaf, M. Q. Israr, **N. Bano**, I. Hussain, and N. H. Alvi, Proceedings of SPIE 7940, 79400A (2011) 13. **Zinc Oxide nanorods/polymer hybrid heterojunctions for white light emitting diodes** M. Willander, O. Nur, S. Zaman, A. Zainelabdin, **N. Bano**, and I. Hussain, J. Phys. D: Appl. Phys. 44, 224017 (2011) 14. **Luminescence study of ZnO hybrid white LEDs grown on cheap/disposable substrates by low temperature chemical growth** I. Hussain**, N. Bano**, M. Y. Soomro, O. Nur, and M. Willander,

	The African review of Physics 6, 29 (2011) 15. **ZnO as an energy efficient material for white LEDs and UV-LEDs** M. Willander, O. Nur, **N. Bano** and I. Hussain , E-MRS 2011 spring meeting (2011). 16. **Intrinsic white light emission from zinc oxide nanorods heterojunctions on large area substrates** Magnus Willander, O. Nur, S. Zaman, A. Zainelabdin, G. Amin, J. R. Sadaf, M. Q. Israr, **N. Bano**, I. Hussain, and N. H. Alvi, Proceedings of SPIE 7940, 79400A (2011) 17. **Study of radiative defects using current-voltage characteristics in ZnO rods catalytically grown on 4H-p-SiC** **N. Bano**, I. Hussain, O. Nur, M. Willander, and P. Klason, Journal of Nanomaterials 2010, Article ID 817201, 5 pages 18. **Depth-resolved cathodoluminescence study of zinc oxide nanorods catalytically grown on p-type 4H-SiC** **N. Bano**, I. Hussain, O. Nur, M. Willander, Q. Wahab, A. Henry, H. S. Kwack and D. Le Si, Dang, Journal of Luminescence 130, 963–968 (2010). 19. **Study of Au/ZnO nanorods Schottky light-emitting diodes grown by low- temperature aqueous chemical method** **N. Bano**, I. Hussain, O. Nur, M. Willander, H. S. Kwack and D. Le. Si Dang, Appl. Phys A. 100, 467–472 (2010). 20. **ZnO-organic hybrid white light emitting diodes grown on flexible plastic Using low temperature aqueous chemical method** **N. Bano**, S. Zaman, A. Zainelabdin, S. Hussain, I. Hussain, O. Nur, and M. Willander, J. Appl. Phy. 108, 043103 (2010). 21. **Luminescence from zinc oxide nanostructures and polymers**

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