

DR. BILAL AHMAD BHAT

Phone: (+91) 7006603373
contactbilal1@gmail.com

Palhallan (Pattan)
J&K, India 193121

EDUCATION

PhD	Physics National Institute of Engineering & Technology (Srinagar – J&K) Dissertation: “Title”	2017
MS	Physics University of Kashmir (Srinagar – J&K)	2011
BS	Non-Med University of Kashmir (Srinagar – J&K) Govt. Degree College Baramulla	2009

HONORS

SET (J&K) State Eligibility Test	2016
GATE Graduate Aptitude Test in Engineering	2016

TEACHING EXPERIENCE

Govt. Higher Secondary , Khiapora (Tangmarg) Lecturer , Department of Physics	Oct 2017 to May 2021
Govt. Degree College , Sopore Assistant Professor , Department of Physics	May 2021 to Present

PUBLICATIONS

Journal Publications

Bhat, B. A., Khan, G. R., & Asokan, K. (2015). Role of substrate effects on the morphological, structural, electrical and thermoelectrical properties of V₂O₅ thin films. *RSC Advances*, 5(65), 52602-52611.

Khan, G. R., Kandasami, A., & Bhat, B. A. (2016). Augmentation of thermoelectric performance of VO₂ thin films irradiated by 200 MeV Ag⁹⁺-ions. *Radiation Physics and Chemistry*, 123, 55-62.

Khan, G. R., & Bhat, B. A. (2015). Quantum size effect across semiconductor-to-metal phase transition in vanadium dioxide thin films. *Micro & Nano Letters*, 10(11), 607-612.

Kumar, P., Ahmad, B., Chand, F., & Asokan, K. (2018). Magnetic and electronic structures of Co ion implanted CeO₂ thin films. *Applied Surface Science*, 452, 217-222.

Ahmad, B., Asokan, K., & Magray, M. (2017). Optical and Electrical Properties of Ti implanted V₂O₅ Thin Films.

Khan, G. R., & Ahmad, B. (2017). Effect of quantum confinement on thermoelectric properties of vanadium dioxide nanofilms. *Applied Physics A*, 123(12), 1-13.

Ahmad, B., Meena, R., Kumar, P., Ahmed, R., Hussain, M., Tantary, S. M., & Asokan, K. (2017). Enhancement of thermoelectrical performance in Au-ion implanted V₂O₅ thin films. *RSC advances*, 7(80), 50648-50656.

Khan, G. R., Asokan, K., & Ahmad, B. (2017). Room temperature tunability of Mo-doped VO₂ nanofilms across semiconductor to metal phase transition. *Thin Solid Films*, 625, 155-162.

Conference Papers

Tuning transport properties of VO₂ thin films by reducing film thickness in the nanoscale region, 2016. Vol 3, No. 1, p. 76.

Structural, morphological and plasmonic properties of silver decorated zinc oxide nanocomposites prepared by microwave assisted solution phase route, 2016. Vol 3, No. 1, p. 328.

Effect of gamma irradiation on structural, optical and transport properties of V₂O₅ thin films, 2015. NIT, Srinagar (J&K).

Thermal annealing V₂O₅ thin films, 2018. International Conference on Recent Trends in Chemical Sciences, Jivaji University Gwalior.

Optical and Electrical properties of Ti implanted V₂O₅ thin films, 2017. 6th International Conference on New Frontiers of Engineering, Science, Management and Humanities. NIT, Srinagar (J&K).

Thermo physical properties of silver doped V₂O₅ thin films, 2017. Jawaharlal Nehru University.

Gamma irradiation induced band gap modification in nano-crystalline vanadium oxide thin films. Recent innovations in Science, Technology and Engineering. NIT, Srinagar (J&K).

WORKSHOPS

National Mission on Education through Information Communication Technology (NME-ICT) awareness Workshop.

National Workshop on Advances in Astronomy and Astrophysics. University of Kashmir.

PhD training program on Vacuum Techniques and Data reduction & Error analysis. Inter-University Accelerator Center, New-Delhi.

LANGUAGES

Kashmiri (mother tongue), English, Urdu.

INTERESTS

Art, Cricket, Islam, Literature, Photography, Travel.