

CURRICULUMVITAE

Dr. Pankaj Kumar Pal

Assistance Professor
Department of Physics
Gurukula Kangri (Deemed to be University)
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Academic Qualifications

- PH. D. (PHYSICS), 2008-2009, G.K.V., HARDWAR
- M.SC. (PHYSICS), 1999, G.K.V., HARDWAR, IST DIV.

Teaching & Research Experience:

- Under Graduate Level : Approx. 18 Years
- Post Graduate Level : Approx. 18 Years
- Approx. 18 Years

Title of Ph.D. Thesis:

"DEVELOPMENT AND CHARACTERIZATION OF Se-Te-Pb TERNARY ALLOYS FOR THEIR SUITABILITY TO MEMORY DEVICES"

Administrative Experience:

- Assistant Controller of Examinations (Additional Charge)
- Assistance Registrar (Additional Charge)

Area of Specialization/Field of Research: Material Science

Employment Record:

- Worked as Project fellow in UGC sponsored Major Research Project entitled "Development and Characterization of N-Type Chalcogenide Amorphous Semiconductor to be used in low cost P-N junction devices" from 13-05-2002 to 31-03-2005 at Department of Physics, Gurukul Kangri Vishwavidyalaya, Haridwar.
- Worked as Assistant Professor on academic sessions 2008 in Physics Department, Gurukul Kangri (Deemed to be University), Haridwar.

Conferences/ Seminars & Workshops Attended: 18

- Hopping Conductivity in Se doped a-Si:H
National Conference on Materials and their Application, Kurukshetra, (2004), to be hold on March 11-13, 2004, Kurukshetra University, Kurushetra.
- Sol-Gel derived thin films and devices
Department of Electronic Science University of Delhi South Campus, New Delhi on 17-18 June, 2005.
- Structural Properties of As_2S_3 and As_2Se_3 Thin Films
National Conference on Advanced Characterization Technique on Nanomaterials (ACTON-2005), to be held on Aug. 24-26, 2005 at Indian Institute of Technology, Roorkee .
- Optical dispersion parameters of amorphous $Se_{70}Te_{30}Pb_x$ films ,National Conference on Semiconductor Material and Technology 16-18 October 2008
Department of physics G.K.V., Haridwar.
- Crystallization and Thermal degradation Mechanism of SeTePb glassess ,National Conference on Semiconductor Material and Technology 16-18 October 2008
Department of physics G.K.V., Haridwar.
- National Conference on progress in Photovoltaic 06 march 2010, Sharda University, Greater Nodia.
- Workshop on Advances in physics and role of experience in physics teaching, 05 November, 2011, Department of physics G.K.V., Haridwar.
- Workshop on Role of low cost Experiments in physics, 06 Nov 2011, Department of physics G.K.V., Haridwar.
- Characteristics of Photoconductivity in amorphous Se-Te-Pb system, World congress for Man and nature ,11-13 Nov, 2011
Department of physics G.K.V., Haridwar
- Indo-Japan conference on frontier nanomaterial for energy.9-11 jan,2012
Sharda University, Greater Nodia.
- Thermal degradation Studies of the glassy alloys in the se-Te-Pb System, International Conference On GTER 11-13 Feb -2012 , FET, G.K.V., Haridwar
- Optical Dispersion in the films of chalcogen doped amorphous hydrogenated silicon (a-si:H) alloys
National conference on PEAS 3-4, 2012 FET, G.K.V., Haridwar
- Workshop and Hands on Training on Synthesis and characterization of Thin films,31March-1April,2015, Department of physics G.K.V., Haridwar

- National Conference on “Science & Technology For indigenous development in India 28-30 Sept,2015, FET, G.K.V., Haridwar
- Dark and photo conductivity in a $\text{Se}_{70}\text{Te}_{30-x}\text{Pb}_x$ ($x=0,2,6,8$) Thin films, International conference on advances in science, Engineering & Technology 29-30 Jan 2016, G.K.V., Haridwar
- Certificate of appreciation, International conference on advances in science, Engineering & Technology 29-30 Jan 2016, G.K.V., Haridwar
- Improved conductivity of carbon-nano-fiber (CNF)/ polytetrafluoroethylene(PTFE) composite
IP Conference Proceedings 1731(1), 060006
- National workshop popularization of remote sensing based maps & Geospatial information jointly organized by ISRS & ISRO, 11 Aug 2017
- Word Press and SEO 15-16 Feb, 2019, G.K.V., Haridwar
- “Importance of yoga in the present scenario of COVID-19” ,The Indian Science Congress Association, 21 June, 2020
- Relevance of Veda, Science & Technology in COVID-19, 30-31, July 2020

Research Papers Published in UGC-CARE/ Scopus/ SCIE

1. Non-Isothermal crystallization Kinetics study on amorphous SE-TE-PB chalcogenide glasses International Journal of Engineering and Science Research, IJESR/Nov 2012/ Vol.-2/Issue-11/Article No-13/1647-1654 ISSN 2277-2685
2. Study of photoluminescence behaviour of porous silicon samples prepared at 20mA current density, Journal of Nano and Electronic Physics, Vol 5 NO 1, 01019 (2pp) 2013.
3. Optical dispersion in annealed thin films of Se-doped a-Si:H alloys, Journal of Nano and Electronic Physics, Vol 5 NO 1, 01020(3pp) 2013.
4. Dark and Photoconductivity in a Se-Te-Pb Thin Films, Invertis Journal of Renewable Energy, Vol-2, No-2, 2014; pp.1-4.
5. Electronic Transport in Se-doped a-Si:H Under Annealing, Invertis Journal of Renewable Energy, Vol-4, No-2, 2014; pp.1-5.
6. Optical dispersion parameters of amorphous $\text{Se}_{70}\text{Te}_{30-x}\text{Pb}_x$ films, Journal of Ovonic Research, Vol. 10, No. 4, July - August 2014, p. 127 – 139.
7. Synthesis and Characterization of ZnO thin films Fabricated by sol-Gel method, International Journal for Environmental Rehabilitation and conservation, Vol.2, 2015, p184-188.

8. Tailoring and optimization of hybrid ZnO:TiO₂:CdO nanomaterials for advance oxidation process under visible light ,Applied Surface Science,509(2020)145326
9. Impact of RF sputtering power on AZO thin films for flexible electro-optical applications Crystal research and Technology 56(4), 2000144
10. Developing high-performance low-temperature CO₂ gas sensors based on nanostructured CO₃O₄ thin films: A SOL –Gel approach and the role of Annealing Surface Review and letters, Vol.33, No.5(2026) 2550026

Membership of Educational Bodies: Life Time Member of
Semiconductor Society of India

Personal Details:

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|--|---|---|
| 1. NAME | : | Dr. Pankaj Kumar Pal |
| 2. FATHER’S NAME | : | Shri P.S. Pal |
| 3. MOTHER’S NAME | : | Smt. A. Devi |
| 4. DATE OF BIRTH | : | 28-10-1977 |
| 5. SEX AND MARITAL STATUS | | |
| (i) Male/ Female | : | Male |
| (ii) Married/ Unmarried | : | Married |
| 6. CATEGORY (SC/ ST/ OBC/ PWD GENERAL) | : | OBC |
| 7. POSTAL/ PERMANENT ADDRESS | : | Dr. Pankaj Kumar Pal
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(U.K) Uttarakhand
249401, India |

Date :

Place:

Pankaj Kumar Pal