

Dr (Mrs) Harjeet Kaur

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Educational Qualifications

<u>EXAM PASSED</u>	<u>UNIVERSITY</u>	<u>DIVISION</u>	<u>YEAR</u>
B.Sc.	Meerut	Ist	1977
M.Sc.	Roorkee	Ist	1979
Ph.D	Roorkee		1984

LIST OF PUBLICATIONS

1. Optical mass and electron-velocity squared in nearly free electron model. Harjeet Kaur and Sushil Auluck. Phys. Rev. **B25**, 7552 (1982).
2. Deformation parameter and ultrasonic attenuation in the nearly free electron Model. Harjeet Kaur and Sushil Auluck . Phys.Rev .**B27**, 2235 (1983).
3. Wave vector dependent electronic susceptibility in the nearly free electron Model. Harjeet Kaur and Sushil Auluck. Physica Scripta **31**, 93 (1985).
4. Effect of zone boundaries on the pressure dependence of the super conducting transition temperature of Aluminium. Harjeet Kaur and Sushil Auluck. J.Low Temp. Physics **59**, Nos.1/2 135 (1985)
5. Hall Coefficient and thermoelectric power in the nearly free –electron model. Harjeet Kaur and Sushil Auluck. Physica Scripta,**39** 370 (1989).
6. Purification and growth of birefringent NaNo₃ crystals using zone-refining technique. S.K.Chaudhary, Harjeet Kaur and V.S.Yadav Proceedings, International Conference on semiconductor materials, N. Delhi (1988).

7. Structural phase transitions in melt grown PbI_2 crystals under laser light. Harjeet Kaur and, S.K.Chaudhary *Ferroelectrics* **250**, 179 (2001).
8. State of science education for girls and gender biasing in Haryana (INDIA) S.K.Chaudhary, Harjeet Kaur, D.S.Dahiya and Anjana Garg. Proceedings International conference on "Women impact on Science And Technology in the new Millennium" 21-25, November 2005, Bangalore (INDIA).
9. Study of Cracks and Phase Transitions in Cadmium Iodide Crystals using X-Ray diffraction. S.K.Chaudhary, Harjeet Kaur (J.Physics. conference series 226, 012017 (2010).
10. Impurity induced structural phase transformations in melt grown single crystals of lead iodide. S.K.Chaudhary, Harjeet Kaur. *Crystal Research and Technology* **46**, 1235 (2011).
11. Mechanism of phase transformations due to impurities in cadmium iodide Crystals. S.K.Chaudhary, Harjeet Kaur. *Archives of Physics Research* **3**, 416 (2012).
12. On the phase transitions between 2H and 4H polytypes of cadmium iodide. Harjeet Kaur, *Archives of Physics Research* **4**, 30 (2013).
13. On the polytypic phase transition 12R-> 2H in lead iodide. Harjeet Kaur, *Archives of Physics Research* **4**, 50 (2013).
14. Challenges in the study of polytypism in MX_2 compounds. Harjeet Kaur. *Advances in Applied Science Research* **5**, 259 (2014).
15. Growth and formation of polytypes in crystals of cadmium iodide. Harjeet Kaur. *Archives of Applied Science Research* **6**, 64 (2014).
16. Some points to ponder in the study of cadmium iodide. Harjeet Kaur. *Advances in Applied Science Research* **5**, 273 (2014).

CONFERENCES/ SEMINARS/WORKSHOPS ATTENDED

1. Purification and growth of birefringent NaNO_3 crystals using zone-refining technique S.K.Chaudhary, Harjeet Chaudhary and V.S.Yadav International Conference on Semiconductor Materials. N.Delhi. (1988).
2. “Refresher Course in Physics”, CPDHE, University of Delhi, Delhi -110007 (1994).
3. Workshop for in-service college teachers on “Environment” Dept of biosciences, M.D.University, Rohtak-124001 (1998).
4. National seminar on recent advances in “Seismology” Dept of mathematics, M.D.University, Rohtak-124001 (1998).
5. “Orientation Programme” Academic staff college, Jamia Milia Islamia New Delhi-110025 (1998).
6. State of science education for girls and gender biasing in Haryana (INDIA) S.K.Chaudhary, Harjeet Kaur, D.S.Dahiya and Anjana Garg. International conference on “Women impact on Science and Technology in the New Millennium” 21-25, November 2005, Bangalore (India).
7. State level seminar on “Energy scenario in India”- A future prospective, Govt College for women, Rohtak-124001 (2008)
8. Enhancing the enrolment of girls in science & technology. National seminar on “Gender equality and economic development in India”, Dept of economics, M.D.University, Rohtak-124001(2010).
9. One day workshop on “Material Science”. Dept of Physics M.D.University Rohtak-124001.(2011).
10. A cheap zone refining system for purification and growth of cadmium iodide crystals S.K.Chaudhary and Harjeet Kaur.National seminar on “Advance materials and devices ”. Dept of Physics, G.V.M. Girls College, Sonipat 3-4 July (2011).
11. Enhancing the enrolment of girls in science and technology and empowerment of women in Haryana (INDIA).S.K.Chaudhary and Harjeet Kaur . International symposium on women in science and engineering. Institut Kimia Malaysia, Kuala Lumpur **Malaysia** 29-30 Sept. (2011).

12. A new mechanism of impurity induced structural phase transformations in melt grown single crystals of lead iodide
International conference on “women in science, engineering and technology: Local and Global perspective.
Dhaka University Dhaka, **Bangladesh** 2-4 Feb (2012).
13. One day workshop on “Semiconductor device fabrication and applications”
Dept of Physics, M.D.University Rohtak.13 Feb (2012).
14. Lead iodide crystals as radiation detector.
Harjeet Kaur, National Symposium on “ Electroceramics-materials and Devices.
Dept of Physics, G.V.M. Girls College, Sonipat 21-22 Feb (2014).

MEMBERSHIP OF THE ORGANIZATIONS /SOCIETIES /ASSOCIATIONS

1. Member, Third World Organization for Women in Science. Trieste, **ITALY**.