

CURRICULUM VITAE

Name: DEEPIKA BHANDARI
Educational Qualification: M.Sc.(Physics), Ph.D.
Date of Birth: April 28, 1968
Designation: Lecturer (RVRES)
Department of Physics
Teaching Experience: 32 years
Address for correspondence: 151/32, Shipra Path,
Mansarovar, Jaipur- 302020
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Educational Details:

Class	Board/University	Year of passing	Subjects	Division
Secondary	Board of Sec. Edu., Raj., Ajmer	1983	Physics, Chemistry, Maths	First
Senior Secondary	Board of Sec. Edu., Raj., Ajmer	1984	Physics, Chemistry, Maths	First
B.Sc.	University of Rajasthan, Jaipur	1987	Physics, Chemistry, Maths	First
M.Sc.	University of Rajasthan, Jaipur	1989	Physics(Condensed Matter Physics)	First
Ph.D.	University of Rajasthan, Jaipur	1992	Materials Science	
Certificate Course in German	University of Rajasthan, Jaipur	1990	German Language	

Scholarships and medal won

- Secured 54th position in higher secondary examination at state level and awarded National Merit scholarship and certificate.
- Secured 22nd position in B.Sc. in University of Rajasthan and awarded National Merit scholarship for two years.
- Secured highest marks in B.Sc. Physics in University Maharani's College and awarded Mrs. Saroj Mathur memorial award.
- Ph.D. thesis was selected for oral presentation in DAE Solid State Symposium held at BARC Mumbai in 1993.

Teaching Details:

Teaching Experience:

32 Years

(UG 32Years and PG 14 years)

	College	Duration	Experience
1	S. S. Jain Subodh PG College, Jaipur	November 04 1989 to July30, 2011	22 years
2	Government College, Sambhar Lake	August 6,2011 to December 21, 2011	4 months
3	LBS Government College, Kotputli	December 22, 2011- October 11, 2014	2 years and 10 months
4.	Seth R L Saharia Government PG College, Kaladera, Jaipur	October 13, 2014	7+ years-

Research Details

Research Experience: **32 years**

Field of interest : Materials Science (Structure, dynamics and properties of metallic alloys, glasses chalcogenides and transparent conducting oxides)

Publications

Research papers : **57**

Books: **07**

Research Projects: **1 (minor) funded by UGC**

- Synthesis and characterisation of ZnO-doped transparent Conducting Oxide (TCO thin films)

Visiting Scientists fellowships availed : 02 (INSA, UGC)

- INSA Visiting Scientist fellowship to work at CLRI (CSIR Institution) Chennai and
- UGC Visiting Scientist fellowship to work at IISc Bangalore

Visited Abroad : 02 (Spain, Italy)

- Visited Badajoz (Spain) to attend the IV International Workshop on Teaching Modern Physics : Statistical Mechanics. The visit was sponsored by UNESCO(France).
- Visited ICTP (Italy) to attend the Spring College on Statistical Mechanics and Dynamics of Soft Condensed Matter.. The visit was sponsored by ICTP, Italy

List of research Scholars awarded Ph.D. degree under my supervision

S. No.	Name of students	Date of Commencement	Title of the thesis	Year of award
1.	Vipin Kumar Jain	30.5.2006	Synthesis and Characterization of mixed oxides thin films	March 2011
2	Syed Faheem Naqvi	08.06.2008	Thermodynamics and structural relaxation of Se-Te-M(M=Ag, Zn) glasses	December 2011

Organisation Experience

National Conferences

- First National Conference on Disordered Materials at Jaipur from October 18-21, 1989.
- National Seminar on Disordered Materials at Jaipur from October 24-26, 1994.
- II National Conference on Thermophysical Properties at Jaipur from September 19-21, 2002.
- 15th National symposium and workshop on thermal analysis THERMANS-2006 from Feb.6-10, 2006 at Jaipur
- Seminar On Environmental Pollution: a Scientist Approach Dec.21-23, 2006
- 2nd National Conference on Condensed Matter and Material Physics (CMMP-07) from Feb. 1-3, 2007 at Jaipur.
- National Conference on Thermophysical Properties (NCTP-2015) MNIT, Jaipur December 14-16, 2015.
- One day celebration on Science day (Seth RL Saharia Government PG College, Kaladera.

International Conferences

- International Conference on The Physics of Disordered Materials at Jaipur, from January 27-29, 1997.
- International Conference on Peace and Conflict resolution in globalised world issue of culturalism (Indian Perspective) at Jaipur, from January 04-06, 2007.
- International Conference on Recent Advances in Microwave Theory and applications (Microwave-08) at Jaipur.

Membership of Academic Society

- Life member: Indian Association of Physics Teachers (IAPT).
- Life member: Indian Thermal Analysis Society (ITAS).

Conferences/workshops/seminars/webinars attended:

- National Conference on Disordered Materials held at University of Rajasthan, Jaipur from October 18-21, 1989.
- II National Conference on Disordered Materials held at HBTI, Kanpur (UP) from December 18-21, 1991.
- 23rd National Seminar on Crystallography, MNIT Jaipur from March 23-25, 1992
- IV International Workshop on Teaching Modern Physics: Statistical Mechanics , Spain from July 16-20,1992
- National session of National science Academy of sciences IISc, Bangalore November, 24-26,1993.
- 61st Session of Indian Science Congress held at University of Rajasthan, Jaipur from January 3-8,1994.
- National Seminar on Disordered Materials held at University of Rajasthan, Jaipur from October 24-26, 1994.
- DAE-Solid State Symposium, University of Rajasthan, Jaipur from December 27-31, 1994.
- International Conference on The Physics of Disordered Materials at Jaipur, from January 27-29, 1997.
- DAE-IUC short term course on Soft Condensed Matter, MS university of Baroda, Vadodara from March 11-16, 1997
- IV National Conference on High Pressure Science and technology, IGCAR, Kalpakkam (Tamilnadu) 1997.
- Spring College on Thermophysical and Statistical Mechanics of Soft Condensed Matter ICTP, Italy from May 4-June 5, 1998.
- 5th International Conference in Asia IUMRS-ICA -98 IISc Bangalore from October 13-16, 1998.
- National Conference on Recent Advances in Microwaves, Antennas and Propagation (Microwave-2001) held at Jaipur from November 2-4, 2001.
- II National Conference on thermophysical Properties held at Jaipur from September 19-21, 2002.

- National Seminar on Application of Nuclear Techniques in Science Teaching held at Jaipur from September 28-29, 2002.
- National seminar on Physics for Physical World held MNIT, Jaipur from November 29, 2005.
- 15th National Symposium and Workshop on Thermal Analysis (THERMANS-2006) held at Jaipur from February 6-8, 2006.
- National Conference on Recent Advancement in Microwave Techniques and Applications (Microwave-2006)held at Jaipur from October 6-8,2006.
- Seminar on Environmental Pollution : A Scientific Approach held at Jaipur from December 21-23, 2006.
- International Conference on Peace and Conflict resolution in globalised world issue of culturalism (Indian Perspective) at Jaipur, from January 04-06, 2007.
- National Conference on Recent Tourism Scenario in India and its impact on economy of Rajasthan at Jaipur, from September 28-30, 2007.
- International Conference on Condensed Matter and Materials Physics and 5th Annual Convention of Rajasthan Physics Association, Jaipur from November 26-28, 2007.
- 2nd National Conference on Condensed matter and Material Physics(CMMP-07) held at University of Rajasthan, Jaipur from February 1-3, 2007.
- International Conference on Recent Advances in Microwave Theory and applications (Microwave-08) at Jaipur.2009.
- National Conference on Materials and their energy applications (NCME-14) held at S.S. Jain Subodh PG College, Jaipur from December22-24,2014
- 7days Workshop on ICT and Quality Assurance Organised by Seth RL Saharia Government PG College, Kaladera Jaipur from February 10-16, 2015

- 8th National Conference on Thermophysical Properties (NCTP-2015) MNIT, Jaipur December 14-16,2015.
- National Workshop on Instrumentation Techniques for Research in Chemical Sciences held at Kanoria PG College, Jaipur from December 22-23,2017.
- National Conference on Energy Material and Sustainable Society (EMSS-2018) at held at Kanoria PG College, Jaipur from January 24-25, 2018
- Microsoft Office Specialist (MOS) Training Organising by Government of Rajasthan, Jaipur at S.S. Jain Subodh PG College, Jaipur from October 08-12,2018
- National Conference on human rights are women's right: women's rights are human rights (NCHRWR-2019) organised by Government College, Jaipur from September 27-28, 2019.
- International Conference on Emerging Challenges, Their Solutions and Recent Advances in Science held at Government Science College, Sikar from October 4-5, 2019.
- Webinar on Century of Quantum Mechanics and Still Going Strong organised by The M S University of Baroda and Gujarat chapter of IAPT-RC7) from June 15-17,2020
- One day International Conference on New Achievements in vikrati se prakriti ki aur -prakratik evam swasth jeevan Institute of Rural Academics and Versatile Interaction (RAAVI) ROONDAL Jaipur, June 28,2020.
- National Webinar on ICT tools for teaching in higher educational institutions organised by Government College, Kotputli on August 29, 2020.
- National online Conference on celebration of Science Day 2021 organised by Government College Kaladera on February 28, 2021.

- International Webinar on New Achievements in Science organised by Government Colleges Alwar, Tonk and Kaladera from March 30-31, 2021.
- National Level two days webinar on identifying and analyzing various attributes of our intangible cultural heritage organised by Seth RL Saharia Government PG College, kaladera, Jaipur from June 10-11, 2021.
- One day workshop on Virtual Lab organised by LBS Government College, Kotputli and IIT Delhi 2021.

Refresher /Orientation Courses attended

- Orientation course, Academic Staff College, University of Rajasthan, Jaipur (July 10-August 05, 1995).
- I refresher course in Physics, Viswabharti, Shantiniketan (W.B.) (November 27-December 18,1996).
- Spring College on Thermodynamics and Statistical Mechanics of Soft Condensed Matter from May 04 -June 05, 1998.
- Refresher course on Environmental Pollution, University of Rajasthan, February 14-March 06, 2003.
- Faculty Development Programme (FDP): Gyan Ganga State Level Online Short-Term Training Programme on Initiatives in Communication Skills Enhancement Organised by Commissionerate College Education , Rajasthan and Government College, Tonk, From March 01-06, 2021.
- Three days National Online FDP on ICT tools for effective teaching learning organised by K.N. Mahavidyalaya, Nagpur from June 8-10, 2021.

Books Published: 07(1+1+5)

Editor The Physics of Disordered Materials
(Proceedings of the international conference on Physics Disordered materials held at University of Rajasthan, Jaipur from January 27-29, 1997) Published by NISCOM, New Delhi (CSIR Publication Unit)

Author Elementary Quantum Mechanics and Spectroscopy (Ramesh Book Depot)2006 (Text Book)

Author Practical Physics (B.Sc. Pre.)
Vardhman Mahaveer Open University, Kota.

Theoretical Physics (B.Sc. Pre.)
Vardhman Mahaveer Open University, Kota.

Practical Physics (B.Sc. I.)
Vardhman Mahaveer Open University, Kota.

Practical Physics (B.Sc. II)
Vardhman Mahaveer Open University, Kota.

Practical Physics (B.Sc. III)
Vardhman Mahaveer Open University, Kota.

Research Publications

1. Electronic transport properties of liquid alkali metals.
Meeta Rani, Arun Pratap, Deepika Bhandari and N.S. Saxena
Proc. Nat. Acad. Sci. (India) 60 (A) (1990) III 335.
2. Glass transition of liquid Na-K alloy
Deepika Bhandari, Arun Pratap, N.S. Saxena and M.P. Saksena
Proc. Nat. Acad. Sci. (India) 60 (A) (1990) IV 429.
3. Collective excitations in a liquid alloy
Deepika Bhandari, Arun Pratap, N.S. Saxena and M.P. Saksena
Physica Status Solidi (b) 160 (1990) 83. **ISSN No.0370-1972.**
4. Structure and dynamics of a two component metallic glasses
N.S. Saxena, Deepika Bhandari, Arun Pratap, and M.P. Saksena
J. Condens. Mat. Physics 2 (1990) 9475. **ISSN No.0953-8984.**
5. Structure and vibrational dynamics of $\text{Ca}_{70}\text{Mg}_{30}$ glass
Arun Pratap, N.S. Saxena, Deepika Bhandari and M.P. Saksena
Mater. Sci. and Engg. A 134(1991) 927. **ISSN No. 0921-5093**
6. Structure and vibrational dynamics of $\text{Mg}_{70}\text{Zn}_{30}$ glass
Arun Pratap, Deepika Bhandari, N.S. Saxena and M.P. Saksena
Presented at International Conference on Disordered Materials Indore (India) 1991.
7. Screening dependence of the dynamics of $\text{Mg}_{70}\text{Zn}_{30}$ glass
Arun Pratap, Deepika Bhandari, N.S. Saxena and M.P. Saksena
Proc. Nat. Acad. Sci. (India) 61 (A) (1992) 285.
8. Dynamical Correlations and phonon dispersion in liquid binary alloy
Deepika Bhandari, Arun Pratap, N.S. Saxena and M.P. Saksena
Physica Status Solidi (b) 170 (1992) 419. **ISSN No.0370-1972.**

9. Structure and dynamics of $Mg_{84}Ni_{16}$ glass
N.S. Saxena, Deepika Bhandari, Arun Pratap, and M.P. Saksena
The Physics of Non-crystalline Solids, Taylor and Francis, London 1992 Part II p106.
10. Structure and transport properties of metallic glasses
Arun Pratap, Deepika Bhandari, N.S. Saxena and M.P. Saksena
Advances in Materials and Processes Ed. P. Ramakrishnan (Oxford and IBH Publishing Co. Pvt. Ltd. New Delhi 1993 p.345
11. Phonons in $Ni_{39}Dy_{61}$ glass
Arun Pratap, Deepika Bhandari, N. S. Saxena and M.P. Saksena
Physica Status Solidi (b) 185 (1994) 131. ISSN No.0370-1972.
12. Compositional and temperature dependence of the specific heat of liquid binary alloys
Arun Pratap, Deepika Bhandari, N.S. Saxena and M.P. Saksena Proc. Nat. Acad. Sci.(India) 13 (1994) 77.
13. Collective excitations in a binary liquid alloy
Deepika Bhandari, Anamika Prasad, Arun Pratap, N.S. Saxena and M.P. Saksena
Trans. IIM 48 (1995) 151 **ISSN No.0972-2815.**
14. Free energy of binary liquid alkali alloys
Arun Pratap, Deepika Bhandari, Anamika Prasad, N.S. Saxena and M.P. Saksena
Trans. IIM 48 (1995) 155 **ISSN No.0972-2815.**
15. Dynamics of $Fe_{83}B_{17}$ glass
Anamika Prasad, Deepika Bhandari, Arun Pratap, N.S. Saxena and M.P. Saksena
Trans. IIM 48 (1995) 173 **ISSN No.0972-2815.**
16. Dynamics of $Pd_{35}Zr_{65}$ glass
Arun Pratap, Anamika Prasad, Deepika Bhandari, N.S. Saxena and M.P. Saksena

Indian J. of Pure and Appl. Phys. 33(1995) 601 **ISSN No. 0019-5596.**

17. Study of phonon eigen frequencies in ternary transition metal-metalloid $\text{Fe}_{40}\text{Ni}_{40}\text{B}_{20}$ glass
Anuradha Gupta, Deepika Bhandari, Kamal C. Jain and N.S. Saxena
Physica Status Solidi (b) 195 (1996) 367. **ISSN No.0370-1972.**
18. Structure and vibrational dynamics of multi-component chalcogenide glasses
Kamal C. Jain, Monika Kheterpal, Deepika Bhandari and N.S. Saxena
Mater. Sci. Forum 223-224 (1996) 87 ISSN No. 0255-5476.
19. Vibrational dynamics and properties of two component of transition metal glass
Deepika Bhandari, Anamika Prasad, Anuradha Gupta and N.S. Saxena
The Physics of Disordered Materials-Proceedings of the International Conference NISCOM Publications, New Delhi (CSIR Publication Unit) 1997, p.86
20. Theoretical study of dynamical structure of amorphous selenium
Monika Kheterpal, Deepika Bhandari and N.S. Saxena
The Physics of Disordered Materials-Proceedings of the International Conference NISCOM Publications, New Delhi (CSIR Publication Unit) 1997, p.51.
21. Temperature dependent Gibb's free energy, glass transition and viscosity of molten salts
Manohar K. Dolia, Deepika Bhandari, Anamika Prasad and N.S. Saxena
The Physics of Disordered Materials-Proceedings of the International Conference NISCOM Publications, New Delhi (CSIR Publication Unit) 1997, p.401.
22. Dynamics of glassy $\text{Ni}_{81}\text{B}_{19}$.
Anamika Prasad, Deepika Bhandari, Arun Pratap and N.S. Saxena

- The Physics of Disordered Materials-Proceedings of the International Conference NISCOM Publications, New Delhi (CSIR Publication Unit) 1997, p.91.
23. Vibrational dynamics of $Zr_{67}Ni_{33}$ amorphous alloy Anuradha Gupta, Anamika Prasad, Deepika Bhandari, Kamal C. Jain and N.S. Saxena
J. Phys. and Chem. of Solids 58(1) (1997) 33 **ISSN No. 0022-3697**
 24. Vibrational dynamics of $Fe_{80}B_{20}$ alloy
Anuradha Gupta, Deepika Bhandari and N.S. Saxena
Ind. J. Pure and Appl. Phys.36(1998) 366 **ISSN No. 0019-5596**
 25. Memory effects and dynamical correlations in liquid selenium
Monika Kheterpal, Deepika Bhandari and N.S. Saxena
Physica B 254(1998) 52 **ISSN No. 0921-4526.**
 26. Collective excitations and thermodynamic properties of liquid selenium: A transition from short chain polymer to real polymer system
Monika Kheterpal, Deepika Bhandari and N.S. Saxena
Phys. Status Solidi (b) 209 (1998) 29 **ISSN No. 0370-1972**
 27. Compositional dependence of sound velocity and elastic moduli of amorphous $Se_{1-x}Ge_x$ system: Comparative study with percolation theory
Monika Kheterpal, Deepika Bhandari and N.S. Saxena
Mater. Sci. and Engg. A 266 (1999) 310 **ISSN NO. 0921-5093**
 28. Effect of heating rate and chemical treatment on the glass transition temperature of a pineapple leaf fiber reinforced PF composites
Deepika Bhandari, R.K. Mangal, N.S. Saxena, Sabu Thomas and M.S. Sreekala
Ind. J. Phys. 74 A(3) (2000) 243 **ISSN No. 0019-5596**
 29. Determination of the Avrami exponent from iso-thermal differential scanning calorimetry of $Se_{70}Te_{24}Cd_6$ chalcogenide glass

- N.S. Saxena, Mousa MA Imran and Deepika Bhandari
Physica Scripta 61 (2000) 502 **ISSN No. 0031-8949**
30. Thermal and Mechanical studies of $\text{Fe}_{73.5}\text{Nb}_3\text{Cu}_1\text{Si}_{13.5}\text{B}_9$ finemet alloys
Rohit Jain, N.S. Saxena and Deepika Bhandari
Ind. J. Phys. 74 A (3) (2000) 245.
31. Crystallization kinetics of $\text{Se}_{85-x}\text{Te}_{15}\text{Sb}_x$
N.B. Maharajan, Deepika Bhandari, N.S. Saxena, D.D. Paudyal and M. Hussain
Ind. J. Phys. 74 (A)(2000) 349
32. Differential scanning calorimetry studies of $\text{Se}_{85}\text{Te}_{15-x}\text{Pb}_x$ ($x=4,6,8$ and 10) glasses
N.B. Maharajan, N.S. Saxena, Deepika Bhandari, Mousa M A Imran and D.D. Paudyal
Bul. Mater. Sci. 23,5 (2000) 369 **ISSN No. 0250-4707**.
33. Kinetic studies of bulk $\text{Se}_{85}\text{Te}_{15-x}\text{Sb}_x$ glass with $x=4,6,8$ and 10
N.B. Maharajan, Deepika Bhandari, N.S. Saxena, D.D. Paudyal and M. Hussain
Physica Status Solidi (b) 178 (2000) 663 **ISSN No. 0370-1972**
34. Phase transformation of binary $\text{Se}_{100-x}\text{In}_x$ ($x= 2,4$ and 10) semiconducting chalcogenide glasses under isothermal condition
Mousa M A Imran, N.S. Saxena and Deepika Bhandari
J. Mater. Sci. Letters 19(2000) 1607 **ISSN No.0261-8028**
35. Thermal Transport in elastomers
P. Predeep, D. Bhandari, G. Mathew, S. Thomas and N.S. Saxena Presented at the XXV International Thermal Conductivity Conference at Michigan (Published in the proceedings 2000) p.151
36. Glass transition phenomenon, crystallization kinetics and thermodynamic properties of ternary $\text{Se}_{80}\text{Te}_{20-x}\text{In}_x$ ($x=2,4,6,8$ and 10)semiconducting glasses: theoretical and experimental aspects
Mousa M A Imran, Deepika Bhandari and N. S. Saxena

- J. Mater. Sci. and Engg. (A) 292/1 (2000) 56 **ISSN No.0921-5093.**
37. Glass transition phenomenon, crystallization kinetics and enthalpy released in binary $\text{Se}_{100-x}\text{In}_x$ ($x=2, 4$ and 10)
Mousa M A Imran, N. S. Saxena and Deepika Bhandari
Physica Status Solidi (a) 181 (2000) 357 **ISSN No.1862-6319**
 38. Enthalpy recovery during structural relaxation of $\text{Se}_{96}\text{In}_4$ chalcogenide glass Mousa M A Imran. Deepika Bhandari and N.S. Saxena Physica B 293 (2001) 394 **ISSN No.0921-4526**
 39. Effect of high energy heavy ion irradiation on crystallization kinetics of Co-based metallic glasses Rohit Jain, Deepika Bhandari, N.S. Saxena, S. K. Sharma and A. Tripathi Bull. Mater. Sci. 24 (2001) 27 **ISSN No. 0250-4707**
 40. Effect of high energy heavy ion irradiation on thermo-mechanical properties $\text{Fe}_{73.5}\text{Si}_{15.5}\text{B}_7\text{Cu}_1\text{Nb}_3$ amorphous alloy Rohit Jain, Deepika Bhandari, N.S. Saxena and S. K. Sharma Mater. Sci. and Engg.298 (2001) 51 **ISSN No.0921-5093**
 41. Crystallization kinetics of $\text{Cu}_x\text{Ti}_{100-x}$ ($x=43,50,53$) glasses Rohit Jain, N.S. Saxena, Deepika Bhandari, S.K. Sharma and K.V.R. Rao Physica B 301 (3-4) (2001) 341 **ISSN No.0921-4526**
 42. Kinetic study of bulk $\text{Ge}_{23}\text{Se}_{78-x}\text{Bi}_x$ semiconducting glasses M.M.A. Imran, D. Bhandari and N.S. Saxena J. Thermal Analysis and Calorimetry 65(2001) 257 **ISSN No.1388-6150**
 43. Crystallization Kinetics of $\text{Fe}_{78}\text{B}_{13}\text{Si}_9$ metallic glass before and after high energy heavy ion irradiation Rohit Jain, N.S. Saxena and Deepika Bhandari Ind. J. Pure and Appl. Phys. 41(2003) 198 **ISSN No. 0019-5596**
 44. Crystallization Kinetics of $\text{Ni}_x\text{Ti}_{100-x}$ ($x = 35,40$) glasses before and after high energy heavy ion irradiation Rohit Jain, N.S. Saxena and Deepika Bhandari Ind. J. Pure and Appl. Phys. 41(2003) 457 **ISSN No. 0019-5596**

45. Theoretical study of vibrational dynamics and properties of $\text{Cu}_{57}\text{Zr}_{43}$ metallic glass
Arun Pratap, Deepika Bhandari and N.S. Saxena
Mater. Sci. and Engg. A 375-377 (2004) 697 **ISSN No. 0921-5093**
46. Structural and optical properties of ZSO thin films
Vipin Kumar Jain, Balram Tripathi, Deepika Bhandari and Y.K. Vijay
Proceedings of DAE-Solid State Symposium 53 (2008) 777
47. Characterization of native oxide surfaces $\text{Fe}_{73.5}\text{Si}_{15.5}\text{B}_7\text{Cu}_1\text{Nb}_3$ before and after high energy heavy ion irradiation
Rohit Jain, Deepika Bhandari and S.K. Sharma
J. alloys and Compounds 490 (2010) 613 **ISSN No.0925-8388**
48. Kinetics of phase transformation of $\text{Se}_{71}\text{Te}_{20}\text{Ag}_9$ glassy alloy
S.F. Naqvi, Deepika, N.S. Saxena, Deepika Bhandari and Kananbala Sharma
Chalcogenide Letters 7(2010) 139 **ISSN No.1584-8663**
49. Study of activation energy, entropy and enthalpy of $\text{Se}_{71}\text{Te}_{20}\text{Ag}_9$ in glass transition region
S.F. Naqvi, Deepika, N.S. Saxena, Deepika Bhandari and Kananbala Sharma
American Inst. Of Physics 1249 (2010) 10
50. Thermodynamics and thermal stability of phase transformation in $\text{Se}_{80-x}\text{Te}_{20}\text{Ag}_x$ ($x=0,3,5,7$ and 9) glasses
S.F. Naqvi, Deepika, N.S. Saxena and Deepika Bhandari
J. Am. Ceramic Society (2010) 1 **ISSN No. 0002-7820**
51. Glass-crystal transformation in $\text{Se}_{80-x}\text{Te}_{20}\text{Ag}_x$ ($x=0,3,5,7$ and 9) glasses
S.F. Naqvi, Deepika, N.S. Saxena, Kananbala Sharma and Deepika Bhandari
J. Alloys and Compounds 506 (2010) 956 **ISSN No.0925-8388**
52. Growth and characterization of transparent conducting nanostructured Zinc Indium Oxide thin films
Vipin Kumar Jain, Praveen Sharma, Deepika Bhandari and Y.K. Vijay

- Inter. J. of Thin Solid Films 519 (2010) 1082 **ISSN No.0040-6090**
53. Influence of In_2O_3 addition on structural, chemical and electrical properties of nanostructured ZnO thin films
Vipin Kumar Jain, Subodh Srivastava, Shweta Agrawal, Y.K. Vijay, Praveen Kumar and Deepika Bhandari
Proceedings of 12th International Conference of International Academy of Physical Sciences held at Jaipur in December-2010.
54. Effect of annealing and SnO_2 addition on properties of nanostructured ZnO thin films
Vipin Kumar Jain, Praveen Sharma, Deepika Bhandari and Y.K. Vijay
Inter. J. of Nanoscience 10 (2011) 1007 **ISSN No.1533-4880**
55. Thermal stability and glass forming ability of $\text{Se}_{80-x}\text{Te}_{20}\text{Ag}_x$ ($x = 0,3,5,7$ and 9) chalcogenide glasses
S.F. Naqvi, Deepika, N.S. Saxena and Deepika Bhandari
Philosophical Magazine Letters First (2011) 1 **ISSN No. 0950-0839**
56. Thermodynamics and thermal stability of phase transformation in $\text{Se}_{80-x}\text{Te}_{20}\text{Ag}_x$ ($x = 0,3,5,7$ and 9) glasses
S.F. Naqvi, N.S. Saxena, Deepika and Deepika Bhandari
J. Am. Ceram. Soc. 94[2] (2011) 462 **ISSN No. 0002-7820**
57. Study of post annealing influence on structural, chemical and electrical properties of ZTO thin films
Vipin Kumar Jain, Praveen Kumar, Mahesh Kumar, Praveen Jain, Deepika Bhandari and Y.K. Vijay
Inter. J. Alloys and Compound 509 (2011) 3541 **ISSN No.0925-8388.**