

## CV of Prof. Kedar Singh

Professor of Physics, School of Physical Sciences, Jawaharlal Nehru University  
(Dec 2017 to till)

Associate Professor, School of Physical Sciences, Jawaharlal Nehru University,  
(Dec 2014 to Nov 2017)

Assistant Professor, Department of Physics, Institute of Science, Banaras Hindu University,  
(May 2004 to Nov 2014)

Total Teaching/research experience: 15 years

1. No. of Ph.D. Students Supervised: Seven (Ph.D. Degree awarded)

2. No. of Research Paper Published in Reputed Journals: 115 (H Index: 24, Citation: 1993)

3. No. of Ph.D. Students under Supervision: Five

4. No. of M.Sc. Student Project guided: Seventeen

5. Abroad Visited/ Stay: Two times

(i). Raman fellowship for Post Doctoral Studies in US under Indo-US 21<sup>st</sup> Century Knowledge Initiative Program (2013-14) availed at High Magnetic Field Laboratory, Florida, USA.

(ii). BOYSCAST fellow (2008-09); DST, New Delhi. ; availed at Florida State University, USA.

6. Project completed/ running as Principal Investigator: Seven (Completed 6 + Running1)

S. No.	Title	Grant Period	Cost (Rs. in lakhs)	Funding Agency
i	Investigation of Optical and Magnetic Properties of Some Transition Metal Doped Diluted Magnetic Semiconductors for Spintronic Applications	May 15, 2017 to May 14, 2020 (Running)	48.00	SERB , New Delhi
ii	Synthesis and characterization of Magnetic Semiconductor Quantum Dots for Device Applications	July 2015 to 31 March 2019 (completed)	11.00	UPE-II, JNU
iii	Development and Characterization of Ge-Sb-Te Phase Change Materials for Memory Applications	April 1, 2015 to March 31, 2018 (completed)	23.00	SERB , New Delhi
iv	Preparation and investigation of Carrier-Type Reversal Metal modified Chalcogenide Glasses	April 1, 2013 to March 31, 2015 (Completed)	10.51	UGC, New Delhi
v	Synthesis and Characterization of Carbon Nanotube Doped Chalcogenide Glassy Composites	July 1, 2011 to June 30, 2014 (Completed)	15.50	CSIR, New Delhi
vi	Synthesis and characterization of multi-component chalcogenide glasses	April , 2008 to March 31, 2011	11.82	UGC, New Delhi
vii	Study of structural relaxation in chalcogenide glasses	July 1, 2006 to Jun30, 2009	8.00	CSIR, New Delhi

## **7. Delivered Invited Talks (Selected):**

- (1) 16<sup>th</sup> Refresher Course in Physical Science/Nano Science talk held on Sept 11, 2018 at HRDC, JNU. New Delhi
- (2) 9<sup>th</sup> National Conference on Thermo-physical Properties held on Nov 06-08, 2017 at IGCAR, Kalpakkam
- (3) Emerging Trends in Materials Science (STCETMS2017) held on March 23-29, 2017 at Madam Mohan Malviya Technical University, Gorkhpur.
- (4) International Conference on Advances in Biological Systems and Materials Sciences in NanoWorld held on Feb 19-23, 2017 at IIT-BHU
- (5) 8<sup>th</sup> National Conference on thermophysical properties held on Dec 14-16, 2017 at Malviya National Institute of technology, Jaipur
- (6) National Seminar in Organic Solar Cells held on Aug 30-31, 2015 at Banasthaki Vidyapith, Rajasthan
- (7) 6<sup>th</sup> IJAA-JSPS International Conference on Contemporary Advances of Science and Technology, held on Aug 7-9, 2015 at Banaras Hindu University
- (8) National Seminar on Functional Materials held on March 10-12, 2016 at DDU Gorkhpur University, Gorkhpur
- (9) 107<sup>th</sup> Orientation Course talk held on Sept 5, 2017 at HRDC, JNU New Delhi
- (10) 108<sup>th</sup> Orientation Course talk held on Oct 17, 2017 at HRDC, JNU New Delhi
- (11) Gordon Research Conference: Colloidal Semiconductor Nanocrystals held on 20-25, July, 2014 at Bryant University, Smithfield, RI, USA

## **8. Co-curricular Activities:**

- Member of JNU Court (2016-18)
- Member of Academic Council, JNU (2016-18)
- Coordinator of Refresher Course in Physics held on Oct 5-30, 2015 at HRDC, JNU
- Convener of *Vigyan Manthan Series* , JNU (2017- 18)
- Member of Organizing Committee of National Science Day (2018) held on Feb 28, at JNU
- Member of University Admission Coordination Board (BHU), 2008-2011
- Vice –President, Indian Physics Association, Varanasi Chapter (2009-10)
- Secretary, Indian Physics Association, Varanasi Chapter (2008-09)
- Organizing Secretary of “International Conference on Multifunctional Materials” (ICMM - 2010), Dec 7-9, 2010 at Banaras Hindu University, Varanasi
- Organizing Secretary, “Summer School on Development and Characterization of Advanced Materials” February 22 - March 14, 2013 at Banaras Hindu University, Varanasi

### List of Publication of Prof. Kedar Singh

S. No.	Details of the Paper
1.	Simultaneous measurements of thermal conductivity and diffusivity of $Se_{85-x}Te_{15}Sb_x$ ( $x = 2, 4, 6, 8$ and 10) chalcogenide glasses at room temperature Kedar Singh, N. B. Mahrjan and N. S. Saxena* phys. stat. sol. (a) 189, 1 197-202, (2002).
2.	Simultaneous measurements of thermal conductivity and thermal diffusivity of $Se_{80}Te_{20-x}In_x$ ( $x = 2, 4, 6$ and 10) chalcogenide glasses at room temperature N. S. Saxena*, Mousa M. A. Imran and Kedar Singh Bulletin of Material Science 25, 241, (2002).
3.	Thermal properties of neutron irradiated $Se_{80}Te_{10}In_{10}$ glass Kedar Singh and N. S. Saxena* Mater. Sci. Engg. A. 346, 287, (2003).
4.	Temperature dependence study of thermal conductivity and thermal diffusivity of treated Oil-Palm-Fiber Reinforced phenolformaldehyde composites Kedar Singh, N. S. Saxena*, M. S. Sreekal and S. Thomas Journal of Applied Polymer Science 98, 13, 3458, (2003).
5.	Calorimetric Studies in $Se_{75}Te_{25-x}Sn_x$ Chalcogenide glasses N. B. Maharjan, Kedar Singh and N. S. Saxena* phys. stat. sol. 395, 1, 305-310, (2003).
6.	Structural relaxation of hybrid composite of phenol formaldehyde Kedar Singh, N. S. Saxena*, S. Thomas and M. S. Sreekala Indian J. Eng. & Material Science 10, 65, (2003).
7.	Kinetics of Ge-As-Se in Glass Transition Region Kedar Singh and N. S. Saxena* Bulletin of Material Science 26, 543, (2003).
8.	Temperature dependence of thermo-physical properties of untreated oil- palm- fiber reinforced phenol-formaldehyde composites Kedar Singh, N. S. Saxena* and S. Thomas J. Scientific & Industrial research 62, 903, (2003).
9.	Pressure dependence of thermal conductivity and thermal diffusivity of Se-Te -In chalcogenide glasses" Kedar Singh and N. S. Saxena* Indian J. Pure & Appl. Physics 41, 466, (2003).
10.	Thermal properties of pine apple leaf fiber reinforced composites for different filler concentrations using transient plane source technique Ravindra Mangal, N. S. Saxena*, M. S. Sreekala, S. Thomas and Kedar Singh Mater. Sci. Engg. A 339, 281-285, (2003).
11.	Temperature dependence of thermo-physical properties of $Se_{80}Te_{10}In_{10}$ chalcogenide Glass. Kedar Singh and N. S. Saxena* Mater. Sci. Engg. A 329 (1-2), 38, (2005).
12.	Thermophysical properties on Zn -Se pellets N. S. Saxena*, R. Sharma, Kedar Singh and T. P. Sharma J. Mat. Sci. Lett. 40, 523, (2005).
13.	Simultaneous measurements of thermal conductivity and diffusivity of $Se_{100-x}In_x$ ( $x = 0, 5, 10, 15$ and 20) chalcogenide glasses at room temperature Kedar Singh, N. S. Saxena* and D. Patidar Journal of Physics and Chemistry of Solids, 66, 946, (2005).
14.	Composition dependence of the electrical conductivity of $Se_{85-x}Te_{15}Sb_x$ ( $x = 2, 4, 6, 8$ and 10) chalcogenide glasses at room temperature

	V. K. Saraswat, Kedar Singh, N. S. Saxena*, V. Kishore, T. P. Sharma and P. K. Saraswat, <i>Current Appl. Physics</i> , 6, 64, (2006).
15.	Energy band gap of $\text{Se}_{100-x}\text{In}_x$ chalcogenide glasses Kedar Singh*, N. S. Saxena, O. N. Srivastav, D. Patidar and T. P. Sharma <i>Chalcogenide Letters</i> , 3, 3, 33-36, (2006).
16.	Electrical conductivity of Se-In Chalcogenide Glasses V.K. Saraswat*, V.Kishore, Kedar Singh, N.S.saxena and T.P.Sharma <i>Chalcogenide Letters</i> 3, 8, 61-65, (2006).
17.	Electrical measurements of $\text{Se}_{85-x}\text{Te}_{15}\text{Sb}_x$ glasses Vibhav K Saraswat, K. Singh, N.S.Saxena* <i>Indian Journal of Pure and Applied Physics</i> 44, 782, (2006).
18.	Thermal Transport in $\text{Se}_{81}\text{Te}_{15}\text{Sb}_4$ Chalcogenide Glass A.K. Singh, Pushpendra Kumar, Kedar Singh* and N.S.Saxena <i>Chalcogenide Letters</i> , 3, (2006), 139-144.
19.	Thermo-physical properties of Se-Te-Sb vitreous chalcogenide semiconductors Pushpendra Kumar, Kedar Singh* <i>Chalcogenide Letters</i> 4, (2007), 127-132.
20.	Correlative study of optical, electrical and thermal transport properties of $\text{Se}_{100-x}\text{In}_x$ chalcogenide glasses, Abhay Kumar Singh, Kedar Singh* <i>Journal of Optoelectronics and Advanced Materials</i> 9, 3756 – 3759, (2007).
21.	Temperature dependence of effective thermal conductivity and effective thermal diffusivity of $\text{Se}_{90}\text{In}_{10}$ bulk chalcogenide glass Kedar Singh*, Abhay Kumar Singh and N.S. Saxena <i>Current Applied Physics</i> , 8, 159-162, (2008).
22.	Pre-exponential Factor for the Non-Isothermal Crystallization in Glassy $\text{Se}_{85-x}\text{Te}_{15}\text{Sb}_x$ ( $0 \leq x \leq 10$ ) Alloys N. Mehta & K. Singh* <i>Philosophical Magazine</i> , 88 (2008) 1411-1421.
23.	Effect of Slow Neutron Radiation on the Pre-exponential Factor of Thermally Activated Crystallization in $\text{Se}_{96}\text{In}_4$ Chalcogenide Glass N. Mehta, K. Singh* & N. S. Saxena <i>Journal of Physics D: Applied Physics</i> , 41 (2008) 135406.
24.	Comparative Analysis of Some Thermo-physical Properties of $\text{Se}_{90}\text{Zn}_{10}$ and $\text{Te}_{90}\text{Zn}_{10}$ alloys N. Mehta, K. Singh* & N. S. Saxena <i>Thermochimica Acta</i> , 475 (2008) 80-82.
25.	Effect of annealing on structures and effective thermal conductivity of $\text{Se}_{90}\text{In}_{10}$ chalcogenide glass, Abhay Kumar Singh, Kedar Singh*, N.S.Saxena <i>Journal of Ovnic Research</i> 4, 107 – 111, (2008).
26.	Comparative Analysis of Thermal Crystallization in $\text{Cu}_{50}\text{Ti}_{50}$ and $\text{Cu}_{50}\text{Zr}_{50}$ Metallic Glasses N. Mehta, K. Singh* & N. S. Saxena <i>Physica B</i> , 403 (2008) 3928-3931.
27.	Effect of Sb and Sn additives on the activation energies of glass transition and crystallization in binary $\text{Se}_{85}\text{Te}_{15}$ alloy N. Mehta, K. Singh* & S. Kumar <i>Phase Transitions</i> , 82 (2009) 43-51.
28.	Effect of Lithium ion-irradiation on crystallization kinetics of glassy $\text{Se}_{98}\text{In}_2$ alloy H. Kumar, N. Mehta*, K. Singh & N. S. Saxena <i>Philosophical Magazine Letters</i> , 89 (2009) 126-135.
29.	Electrical Properties of $\text{Se}_{93-x}\text{Zn}_2\text{Te}_5\text{In}_x$ Chalcogenide Glasses A. K. Singh, N. Mehta & K. Singh* <i>Chalcogenide Letters</i> , 6 (2009) 9-14.
30.	Correlation between Meyer-Neldel Rule and phase separation in $\text{Se}_{98-x}\text{Zn}_2\text{In}_x$ chalcogenide glasses A. Singh, N. Mehta & K. Singh* <i>Current Applied Physics</i> , 9 (2009) 807-811.

31.	Observation of inverse Meyer-Neldel rule in thermally activated crystallization of hybrid composite of phenol formaldehyde N. Mehta, K. Singh* & S. Kumar Philosophical Magazine, 89 (2009) 797 - 806.
32.	Electrical properties of Se-Zn-In chalcogenide glasses A. Singh, N. Mehta & K. Singh* The European Physical Journal Applied Physics, 46 (2009) 20303.
33.	On the glass transition phenomenon in Se-Te and Se-Ge based ternary chalcogenide glasses N. Mehta, K. Singh*, A. Kumar Physica B, 404 (2009)1835-1838.
34.	Effect of ionic irradiation on the pre-exponential factor of thermally activated crystallization in $\text{Co}_{66}\text{Si}_{16}\text{B}_{12}\text{Fe}_4\text{Mo}_2$ metallic glass N. Mehta, K. Singh* & N. S. Saxena Journal of Physics and Chemistry of Solids, 70 (2009) 811–815.
35.	Co-relation between pre-exponential factor and activation energy of non-isothermal crystallization for virgin and irradiated $\text{Fe}_{78}\text{B}_{13}\text{Si}_9$ metallic glass N. Mehta, K. Singh* & N. S. Saxena Physica B, 404 (2009) 2184–2188.
36.	Optical and FTIR properties of $\text{Se}_{93-x}\text{Zn}_2\text{Te}_5\text{In}_x$ Chalcogenide Glasses A. K. Singh, N. Mehta & K. Singh* Physica B, 404 (2009) 3470–3474.
37.	Effect of indium additive on glass forming ability and thermal stability of Se-Zn-Te chalcogenide glasses A. K. Singh, N. Mehta & K. Singh* Philosophical Magazine Letters, 90 (2010) 201-208.
38.	Crystallization kinetics and thermal stability of $\text{Se}_{98-x}\text{Zn}_2\text{In}_x$ chalcogenide glasses, Abhay Kumar Singh and Kedar Singh* Philosophical Magazine, 89, 1457–1472, (2009).
39.	Composition dependence UV-Visible and MID-FTIR properties of $\text{Se}_{98-x}\text{Zn}_2\text{In}_x$ (X= 0, 2, 4, 6 and 10) chalcogenide glasses Abhay Kumar Singh and Kedar Singh* Journal of Modern Optics 56, 471-476, (2009).
40.	Element directed aqueous solution synthesis of copper telluride nanoparticles characterizations and optical properties Pushpendra Kumar and Kedar Singh* Crystal growth & Design, 9, (7), 30089-30094, (2009).
41.	Effect of annealing below crystallization temperature on structural and mechanical properties of $\text{Co}_{66}\text{Si}_{16}\text{B}_{12}\text{Fe}_4\text{Mo}_2$ metallic glass Pushpendra Kumar, Kedar Singh*, T.P. Yadav, O.N. Srivastava. Journal of Optoelectronics and advanced materials 11, (8), 1082-1087, (2009).
42.	Calorimetric studies of glass transition phenomenon in glassy $\text{Se}_{80-x}\text{Te}_{20}\text{Sn}_x$ alloys H. Kumar, N. Mehta & K. Singh* Physica Scripta, 80 (2009) 065602.
43.	Composition dependence of thermal stability, micro-hardness and compactness in glassy $\text{Se}_{90}\text{In}_{10-x}\text{Ge}_x$ alloys H. Kumar, N. Mehta*, K. Singh & A. Kumar Physica B, 404 (2009) 3761-3765.
44.	Effect of Lithium ion-irradiation on glass transition kinetics of glassy $\text{Se}_8\text{In}_2$ alloy H. Kumar, N. Mehta*, K. Singh & N. S. Saxena Phase Transitions, 83 (2010) 1-9.
45.	Effect of In and Zn additives on some thermal properties of a-Se N. Mehta, K. Singh* & N. S. Saxena Solid State Science, 12 (2010) 963-965.
46.	Effect of high energetic ionic radiation in thermally activated crystallization of $\text{Co}_{66}\text{Si}_{15}\text{B}_{16}\text{Fe}_6\text{Ni}_1$ metallic glass: Observation of MN rule

	N. Mehta, K. Singh* & N. S. Saxena Radiation Effects and Defects in Solids, 166 (4) (2011) 251-257
47.	Study of dielectric properties of Se-Zn-In chalcogenide glasses A.K. Singh, N. Mehta, K. Singh* Optoelectronics and advanced materials-Rapid Communication 12, (2010), 1700-1705.
48.	Synthesis of CdSe nanoparticles at 50 °C by wet chemical method Pushpendra Kumar and Kedar Singh* Current Nanoscience, 6, (1) 89-93, (2010).
49.	Ferromagnetism in Cu doped ZnSe Semiconducting Quantum Dots Pushpendra Kumar and Kedar Singh* Journal of Nanoparticle Research, 13 (2011) 1613- 1620.
50.	Calorimetric studies of crystallization kinetics of $Se_{75}Te_{15-x}Cd_{10}In_x$ multicomponent chalcogenide glasses using non-isothermal DSC S Kumar, K Singh*, N Mehta Philosophical Magazine Letter, 90, (2010), 547-557.
51.	Template-free Solvothermally Synthesized ZnSe/ZnSe: $Eu^{3+}$ Nanoparticles, Structural, Optical and Raman Studies Pushpendra Kumar and Kedar Singh* Current Nanoscience 6, (5) 402-407, (2010).
52.	Calorimetric studies of $Se_{75}Te_{15}Cd_{10}$ and $Se_{75}Te_{10}Cd_{10}In_5$ multicomponent chalcogenide glasses Sunil Kumar, Kedar Singh* Physica B: Condensed Matter 405, (2010), 3135-3140.
53.	Wurtzite ZnSe quantum dots: Synthesis, Characterization and PL properties Pushpendra Kumar and Kedar Singh* Journal of Optoelectronics and advanced materials 1, (2009) 59-69.
54.	Structural, Optical and Raman studies of Template-free Solvothermally Synthesized ZnSe/ZnSe: $Ce^{3+}$ Nanoparticles Pushpendra Kumar and Kedar Singh* Journal of Luminescence, 130, (2010), 2026-2031.
55.	Template Free -Solvothermally Synthesized Copper Selenide ( $CuSe$ , $Cu_{2-x}Se$ , $\beta-Cu_2Se$ and $Cu_2Se$ ) Hexagonal Nanoplates from Different Precursors at Low Temperature Pushpendra Kumar, Kedar Singh* and O. N. Srivastava Journal of Crystal Growth, 312, (2010), 2804-2813.
56.	Observation of Meyer Neldel rule and crystallization rate constant stability for $Se_{93-x}Zn_2Te_5In_x$ chalcogenide glasses A K Singh and Kedar Singh* The European Physical Journal of Applied Physics, 51(3) (2010)30301
57.	Calorimetric studies of glass transition in glassy $Se_{75}Te_{15-x}Cd_{10}In_x$ alloys using non- isothermal DSC technique Sunil Kumar, Kedar Singh* and Neeraj Mehta Physica Scripta, 82, (2010), 04560-04565.
58.	Synthesis, characterizations, and optical properties of copper selenide quantum dots Pushpendra Kumar , Kedar Singh* Structural Chemistry 22(2011) 103-110
59.	Calorimetric studies of non-isothermal crystallization in amorphous $Cu_xTi_{100-x}$ alloys N Mehta K Singh and N S Saxena Bull. Mater. Sci., 34, No. 7( 2011) 1459–1463
60.	Localized structural growth and kinetics of $Se_{98-x}Zn_2In_x$ ( $0 \leq x \leq 10$ ) amorphous alloys A. K. Singh and Kedar Singh* Physica Scripta, 83, (2011), 025605
61.	The effect of Indium additives on crystallization kinetics and thermal stability of Se-Te-Sn chalcogenide glasses Sunil Kumar and Kedar Singh* Physica B 406, (2011)1519

62.	Calorimetric studies of thermal crystallization in glassy $\text{Se}_{80-x}\text{Te}_{20}\text{Sn}_x$ ( $0 \leq x \leq 10$ ) alloys H Kumar, N Kumar and K Singh Phys. Scr. 83 (2011)065602
63.	Simultaneous measurements of thermal conductivity and thermal diffusivity of $\text{Se}_{90-x}\text{Te}_5\text{Sn}_5\text{In}_x$ ( $x = 0, 3, 6$ and $9$ ) multi-component chalcogenide glasses Sunil Kumar and Kedar Singh J Mater Sci. 47 (2012) 3949
64.	Room temperature ferromagnetism in magic- sized Cr- doped CdS dilute magnetic semiconducting quantum dots P .Srivastava, P. Kumar and K. Singh J. of Nano particle research ,13 (2011)5077- 5085
65.	Effect of some metallic additives ( Ag, Cd and Sn) on thermal transport properties of a-Se A. Sharma, K. Singh and N Mehta J of therm. Anal. Calorim. DOI: 10.1007/s10973-011-1801-5
66.	Glass Transition, Thermal stability and glass-forming tendency of $\text{Se}_{90-x}\text{Te}_5\text{Sn}_5\text{In}_x$ multicomponent chalcogenide glasses Sunil Kumar and Kedar Singh* Thermochimica Acta, 528 (2012) 32-37
67.	Quantum Phase Transition from Superparamagnetic to Quantum Superparamagnetic State in Ultrasmall $\text{Cd}_{1-x}\text{Cr(II)}_x\text{Se}$ Quantum Dots? Weiwei Zheng, Pushpendra Kumar, Aaron Washington, Zhenxing Wang, Naresh S. Dalal, Geoffrey F. Strouse, and Kedar Singh* J . of American Chemical Society 134 (2012) 2172–2179
68.	Investigations on structural, optical and second harmonic generation in solvothermally synthesized pure and Cr-doped ZnO nanoparticles P. Kumar, J. Singh, Kedar Singh, R. S. Tiwari, O. N. Srivastava and A. C. Pandey CrystEngComm 14 (2012)1653
69.	Low temperature synthesized thermoelectric $\text{Sb}_2\text{Te}_3$ irregular nanoflakes Punita Srivastava and Kedar Singh* Materials Letters doi:10.1016/j.matlet.2012.01.087
70.	Evidence of a $\text{ZnCr}_2\text{Se}_4$ Spinel Inclusion at the Core of a Cr-Doped ZnSe Quantum Dot Weiwei Zheng, Kedar Singh, Zhenxing Wang, Joshua T. Wright, Johan van Tol, Naresh S. Dalal, Robert W. Meulenberg, and Geoffrey F. Strouse J . of American Chemical Society 134 (2012) 5577-5585
71.	Effect of Indium additive on thermal Transport properties of Se-Te-Cd multi- component chalcogenide glasses Sunil Kumar and Kedar Singh* J. of Thermal Analysis and Calorimetry, 10.1007/s10973-012-2440-1 ( In press)-2012
72.	Effect of Pb additive on crystallization kinetics of $\text{Se}_{80}\text{In}_{20}$ glassy matrix Indra Sen Ram, Kedar Singh Physica B: Condensed Matter 407 (2012) 3472
73.	Structural and Thermal properties of chemically synthesized $\text{Bi}_2\text{Te}_3$ nanoparticles Punita Srivastava and Kedar Singh J. of Thermal Analysis and Calorimetry DOI: 10.1007/s10973-012-2553-6 (In press)-2012)
74.	Synthesis of CdSe nanoparticles by solvothermal route: Structural, Optical and Spectroscopic properties Punita Srivastava and Kedar Singh* Advanced Materials Letters (Accepted)-2012
75.	Morphological evolution in single-crystalline $\text{Bi}_2\text{Te}_3$ nanoparticles, nanosheets and nanotubes with different synthesis temperatures Punita Srivastava and Kedar Singh Bull. Mater. Sci., 34, No. Accepted-2012,
76.	Effect of Pb addition on dielectric relaxation in $\text{Se}_{80}\text{In}_{20}$ glassy system

	Indra Sen Ram, R K Singh, P Singh, Kedar Singh* Journal of Alloys and Compounds, 552 (2013) 480–485,ISSN : 0925-8388 (International J.)
77.	Two Dimensional Bi <sub>2</sub> Te <sub>3</sub> nano-sheets with enhanced electrical and dielectric properties : scope of novel storage renewable energy in nanoelectronics Punita Srivastava and Kedar Singh Science of Advanced materials Volume 5, Number 7, July 2013, pp. 836-843(8)
78.	Low temperature reduction route to synthesis bismuth telluride (Bi <sub>2</sub> Te <sub>3</sub> ) nanoparticles: structural and optical studies Punita Srivastava and Kedar Singh* Journal of Experimental Nanoscience (In Press) 2013
79.	Thermal and mechanical properties of CNT-Se <sub>90-x</sub> Te <sub>10</sub> Ag <sub>x</sub> (0, 5 and 10) glassy composites. Indra Sen Ram, Kedar Singh* Journal of Alloys and Compounds, 576 (2013) 358-362, ISSN: 0925-8388 (International J.)
80	Synthesis and dielectric relaxation behavior of metallic Bi <sub>2</sub> Te <sub>3</sub> Nanotube Punita Srivastava and Kedar Singh Materials Letters, 108 (2013) 25-28,
81.	Layered Sb <sub>2</sub> Te <sub>3</sub> nanoflakes as chalcogenide dielectrics Punita Srivastava and Kedar Singh J of Electronic Materials 42(2013) 2733-2738
82.	Study of Crystallization Process in Se <sub>80</sub> In <sub>10</sub> Pb <sub>10</sub> by Iso-Conversional Methods Indra Sen Ram, Kedar Singh Journal of Crystallization Process and Technology, 2013, 3, 49-55
83	Effect of Cs-on morphological, optical and electrical properties of Bi <sub>2</sub> Te <sub>3</sub> nanostructures Punita Srivastava and Kedar Singh Materials Letters, 136 (2014) 337-340
84	Enhancement of electrical, thermal and mechanical properties of carbon Nanotube additive Se <sub>85</sub> Te <sub>10</sub> Ag <sub>5</sub> glassy alloys A.N Upadhyay, R.S. Tiwari and Kedar Singh Materials Letters, 136 (2014) 445-448
85	Study of Glass-Transition Kinetics of Pb-Modified Se <sub>80</sub> In <sub>20</sub> System by using Non-isothermal Differential Scanning Calorimetry Indra Sen Ram and Kedar Singh Int J Thermo-physics 35 (2014) 123-135
86	Electro-optical, UV absorbance, and UV photoluminescence analysis of Se <sub>95</sub> In <sub>5</sub> chalcogenide glass microparticle doped ferroelectric liquid crystal Dharmendra Pratap Singh, Swadesh Kumar Gupta, Shivani Pandey, Kedar Singh, and Rajiv Manohar JOURNAL OF APPLIED PHYSICS 115, 214103 (2014) ISSN: 0021-8979
87	Effect of carbon nano tube additive on the structural and thermal properties of Se <sub>85</sub> Te <sub>10</sub> Ag <sub>5</sub> glassy alloys A.N Upadhyay, R.S. Tiwari and Kedar Singh J. Thermal Anal. Calorimetri 15 (2015) 4825-6
88	Electrical conduction mechanism in Se <sub>90-x</sub> Te <sub>5</sub> Sn <sub>5</sub> In <sub>x</sub> ( X= 0, 3, 6 and 9) multi-component glassy alloys I S Ram, Sunil Kumar, R K Singh, P S Singh and Kedar Singh AIP Advances 5, (2015) 087164-7 ISSN: 2158-3226
89	Electrical and dielectric properties of carbon Nanotube containing Se <sub>85</sub> Te <sub>10</sub> Ag <sub>5</sub> glassy composites A.N Upadhyay, R.S. Tiwari and Kedar Singh Adv. Mater. Lett 6 (2015) 1089
90	Microstructural and thermal investigations of carbon nanotube additive Se <sub>80</sub> Te <sub>16</sub> Cu <sub>4</sub> glassy composites AN Upadhyay, RS Tiwari, Kedar Singh* Materials Letters 164 (2016), 449-451



91	Glass transition and crystallization kinetics of $\text{Se}_{98-x}\text{Cd}_2\text{In}_x$ ( $x= 0, 2, 6$ and $10$ ) glassy alloys Sunil Kumar and Kedar Singh * <i>J. of Thermal Analysis and Calorimetry</i> , 124 (2016) 675-682
92	Optical and electrical properties of carbon nanotube- containing $\text{Se}_{85}\text{Te}_{10}\text{Ag}_5$ glassy composites AN Upadhyay, RS Tiwari, Kedar Singh* <i>Philosophical Magazine</i> 96 (2016) 576-583
93	Study of optical properties of vacuum evaporated carbon nanotube containing $\text{Se}_{80}\text{Te}_{16}\text{Cu}_4$ thin films A. N. Upadhyay, R. S. Tiwari, and Kedar Singh* <i>Materials Research Express</i> , IOP 3 (2016), 086405
94	Kinetics of phase transformation of carbon nanotube containing $\text{Se}_{85}\text{Te}_{10}\text{Ag}_5$ glassy composites A. N. Upadhyay, and Kedar Singh <i>Materials Research Express</i> , IOP 3 (2016) 125201
95	Shape and Size-Dependent Magnetic Properties of $\text{Fe}_3\text{O}_4$ Nanoparticles Synthesized Using Piperidine Ashwani Kumar Singh, O. N. Srivastava and Kedar Singh <i>Nanoscale Research Letters</i> 12 (2017) 298
96	Annealing effect on thermal conductivity and microhardness of carbon nanotube containing $\text{Se}_{80}\text{Te}_{16}\text{Cu}_4$ glassy composites A N Upadhyay , R S Tiwari and Kedar Singh <i>Mater. Res. Express</i> 5 (2018) 025203
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