

List of Publications

(a) in peer reviewed journals :

1. B. Keshav Rao and **Mohan L. Verma**, Modeling of ionic charge density, Chemical Physics, doi.org/10.1016/j.chemphys.2016.04.017.
2. B. Keshav Rao and **Mohan L. Verma**, First principle study of 0.75AgI:0.25AgCl: A density functional approach, J. Chemical Physics Letters, 661:157–160, 2016.
3. **Mohan L. Verma** and Homendra D Sahu, Ionic conductivity and dielectric behavior of PEO-based silver ion conducting nanocomposite polymer electrolytes, J. of Ionics, 21: 3223-3231 2015.
4. Nirbhay K Singh, **Mohan L. Verma** and Ajay Taide, Capacitor with PEO/Activated Carbon Based Electrode and Nano-composited Polymer as Electrolyte, Applied Science and Advanced Materials International Vol. 1 (4-5), May 2015.
5. Amar Bahadur, **Mohan L. Verma** and Madhukar Mishra, First principle study of structural, electronic and magnetic properties of silicon doped zigzag boron nitride nanoribbon, Eur. Phys. J. B. 88:79 2015.
6. Anjali Oudhia, Youman Kumar Sahu, Aarti Chaudhary and **Mohan L. Verma**, A first principle study of electronic structure of ZnO nanoribbon, IJAERS, 4: 294-295 2015.
7. Upma, **Mohan L. Verma** and Rachna Singh, Ab initio studies on electronic structure and charge density of potato starch, IJAERS, 4: 291-293 2015.
8. Durga Verma, R.P.Patel, **Mohan L. Verma**, Preparation of Eu-activated Sr₂SiO₄ phosphor by a combustion method and its optical properties, IJAERS, 4: 271-272 2015.
9. **Mohan L. Verma**, Manickam Minakshi Sundaram and Nirbhay K. Singh, *Structural and electrochemical properties of nanocomposite polymer electrolyte for electrochemical devices*, Industrial Engineering Chemistry Research, 53: 14993-15001 2014.
10. **Mohan L. Verma**, Manickam Minakshi Sundaram and Nirbhay K. Singh, *Synthesis and Characterization of Solid Polymer Electrolyte based on Activated Carbon for Solid State Capacitor*, Electrochemical Acta, 137: 497–503 2014.
11. B. Keshav Rao and **Mohan L. Verma**, *Ionic mobility of (0.9)[0.75AgI:0.25AgCl]:0.1SiO₂ in space charge depolarization*, International Journal of Ionics, DOI: 10.1007/s11581-014-1344-4 2014.

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12. **Mohan L. Verma** and B. Keshav Rao, *Modeling of ionic diffusion by space charge depolarization*, International Journal of Ionics 20: 697-701 2014.
 13. **Mohan L. Verma** and B. Keshav Rao, *A density functional approach for the conductivity*, CSVTU research journal 6: 13-16 2013.
 14. **Mohan L. Verma** and B. Keshav Rao, *Modeling of ionic charge current density*, CSVTU research journal 6: 17-20 2013.
 15. **Mohan L. Verma** and Nirbhay K. Singh, *AC impedance spectroscopic of nano size Al₂O₃ Filler in PEO : AgI polymer electrolyte*, Material Science Research India 9(1):139-146 2012.
 16. **Mohan L. Verma** and Nirbhay K. Singh, *AC Impedance Analysis on PEO:AgI Polymer Electrolyte for Capacitor Application*, CSVTU Research Journal 5: 22-26 2012.
 17. **Mohan L. Verma** and Nirbhay K. Singh, *Ultrabattery, fuel cell and supercapacitor based HEV a comparative study of performance*, International Journal of Theoretical and Applied Physics 2: 113-124 2012.
 18. **Mohan L. Verma** and B. Keshav Rao, *Modeling of Ag⁺ mobility in AgI by space charge depolarization process*, International Journal of Ionics 17: 323-329 2011.
 19. **Mohan L. Verma** & Arti Verma *Structural and morphological characterization of Ag⁺ ion conducting nanocomposite polymer electrolyte membrane(1-x) [70 PEO:30 Ag₂SO₄]:x Fe₂O₃ by hot press technique*, International journal of Pure and Applied Physics 7: 7-12 2011.
 20. **Mohan L. Verma** and Arti Verma, *Investigation on solid polymer electrolyte (SPE) membrane of composition [(1-x) PEO: x AgCl] prepared by hot press technique*, Material Science Research India, 2011.
 21. **Mohan L. Verma** and Arti Verma, *Ion transport properties and morphological characterization studies of a hot pressed synthesized polymer nanocomposite electrolyte membrane (1-x) [70PEO:30AgCl]:xFe₂O₃*, International Journal of polymer and Technology, 2011.
 22. **Mohan L. Verma** and Arti Verma, *Ionic transport properties and characterization studies on Ag⁺ ion conducting polymeric nanocomposite electrolyte membrane (1-x) [70PEO:30AgCl]:xTiO₂ prepared by hot press technique*, Advances in Polymer Science and Technology: An International Journal 1: 10-13 2011.
 23. **Mohan L. Verma**, Arti Verma and R.C. Agrawal, *Characterization study of hot-*

- press-synthesized electro active polymeric membranes by image processing*, International Journal of Nanotechnology and Applications 5: 161-171 2011.
24. **Mohan L. Verma** and Arti Verma, *Study of membrane morphology of SEM image of polymer nanocomposite membrane by digital Image processing*, International Journal of Engg. Science and Technology 1: 1332-1336 2011.
 25. **Mohan L. Verma**, R.C. Agrawal and Mimi Mukherjee, *Space Charge Depolarization of Wurtzite or Zinc Blend Structured Silver Iodide: Modeling of Preliminary Studies*, Radiation effects & Defects in solids 161: 225-233 2006.
 26. R. C. Agrawal, **Mohan L. Verma** and R. K. Gupta, *Characterization of basic transport parameters in a new fast Ag⁺ ion conducting composite electrolyte system: (1-x) [0.75AgI:0.25AgCl]: xZrO₂*, Solid State Ionics 473: 136-137 2000.
 27. R. C. Agrawal, **Mohan L. Verma** and R. K. Gupta, *Studies on persistent - polarization I memory-type effect in Ag⁺ ion conducting quenched [0.75AgI: 0.25AgCl] mixed system/solid solution* India, J. Pure and Appl. Phy. 37: 334 1999.
 28. R. C. Agrawal, R.K.Gupta, **Mohan L. Verma** and A. R. Sharma. *Polarization/self-depolarization studies on Ag⁺ ion conducting quenched [0.75AgI: 0.25AgCl] mixed system /solid solution*, Indian J. Pure and App. Phy. 37: 235 1999.
 29. R. C. Agrawal, **Mohan L. Verma** and R. K. Gupta, *Study of ionic transport properties on a new Ag⁺ ion conducting composite electrolyte system (1-x)[0.75AgI: 0.25AgCl]: xSiO₂*, J. Phy. D. 31: 2854 1998.
 30. R. C. Agrawal, R. K. Gupta and **Mohan L. Verma**. *Studies of polarization/self-depolarization and electrets type behavior in AgI*, Journal of Ionics 4: 33 1998.

(b) book chapters on special issues of solid state ionics :

31. R. C. Agrawal, **Mohan L. Verma** and R. K. Gupta *Thermoelectric power and battery discharge characteristic studies of a new silver ion conducting composite electrolyte (1-x) [0.75AgI:0.25AgCl]:xZrO₂*, Fast Ion Conductors (ed) A.R. Kulkarni, Narosa Publications New Delhi 220 2001. [ISBN No. 8173194017, 9788173194016]
32. R. C. Agrawal, **Mohan L. Verma**, R. K. Gupta and S. Thaker. *Thermoelectric power and battery discharge characteristic studies of a new silver ion conducting composite electrolyte*, Solid State Ionics - Science and Technology (eds) B. V. R. Chowdary et al. World Scientific, Singapore 465 1998. [book chapter ISBN No : 9810237634, 9789810237639]

33. R. C. Agrawal, **Mohan L. Verma**, R. K. Gupta, R. Kumar, M. L. Verma and S. K. Pandey. *Estimation of mobile ion concentration in some silver ion conducting solid electrolyte systems by dc polarization/depolarization studies.*"Solid State Ionics - Science and Technology (eds) B. V. R. Chowdary et al. World Scientific, Singapore 127 1998.

[book chapter ISBN No : 9810237634, 9789810237639]

34. **Mohan L. Verma** and B.Keshav Rao “*Modeling of Space Charge Density in Some Nanocomposite Solid Electrolyte*” in Solid State Ionics : New materials for pollution free energy devices eds B.V.R.Chowdari et al. World Scientific, Singapore 531-536 2008.

35. **Mohan L. Verma**, B. Keshav Rao, Homendra Sahu and Nirbhay K. Singh “*Modeling and Determination of Space Charge Dielectric Constant of Nanocomposite Electrolyte 0.9[0.75 AgI : 0.25 AgCl]:SiO₂*”, Solid State Ionics : New materials for pollution free energy devices eds B.V.R.Chowdari et al. World Scientific, Singapore 525-530 2008.

36. **Mohan L. Verma**, B. Keshav Rao, Arti Verma and Mimi Mukherjee “*Structural Characterization of Ionic Materials Applying Digital Image Processing of SEM/TEM Image : A novel Approach*”, Solid State Ionics : New materials for pollution free energy devices eds B.V.R.Chowdari et al. World Scientific, Singapore 417-421 2008.

37. **Mohan L.Verma**, Nirbhay K. Singh and Homendra Sahu, *Supercapacitors for hybrid electric vehicles: A survey and modeling of new control structure* in New materials for pollution free energy devices eds B. V. R. Chowdari et al. 831-836 2008.

38. **Mohan L. Verma** & B.Keshav Rao *Modeling of space charge ionic conduction in 2 phase nano composite electrolytes*, in Solid State Ionics : Fundamental Researches and Technological Applications, eds B.V.R.Chowdari et al. World Scientific, Singapore 423-430, 2010.

39. **Mohan L. Verma**, B. Keshav Rao and Homendra Sahu “*Seeking the possibility of quantum transport in ionic/superionic solids*”, Solid State Ionics : Fundamental Researches and Technological Applications, eds B.V.R.Chowdari et al. World Scientific, Singapore 431-438 2010.

40. **Mohan L. Verma**, Homendra Sahu & Arti Verma “*Studies on correlation between*

dielectric properties and ionic conductivity of Fe₂O₃ dispersed PEO based nanocomposite electrolyte”, Solid State Ionics : Fundamental Researches and Technological Applications, eds B.V.R.Chowdari et al. World Scientific, Singapore 2010.

41. **Mohan L. Verma**, Nirbhay K. Singh “*Novel model of hybrid electric vehicle based on solar energy induced ultrabattery*”, Solid State Ionics : Fundamental Researches and Technological Applications, eds B.V.R.Chowdari et al. World Scientific, Singapore. 1139-1145 2010.

(c) in proceedings of international/national conference

42. R.C. Agrawal, Chetan K. Sinha and **Mohan L. Verma**. *Discharge characteristic study on solid-state battery using composite electrolyte system 0.8 [0.25AgI:0.25AgCl]:0.2Fe₂O₃*, Proc. of the 7th Int. symposium in Advances in Electrochemical science and Technology ISAEST –VII, Chennai India 174-177 2002.
43. Mimi Mukherjee, **Mohan L. Verma**, Swagota Sarkar and S. Bhushan, Photoconductivity and nanoparticle studies of some chemically deposited CdS & (Cd-Pb)S films, Advances in Electronic Materials & Devices" [AEMD - 2006] held at Guru Ghasidas University, P. K. Bajpai et al. (eds) New Delhi, India 2006.
44. **Mohan L. Verma**, Mimi Mukherjee, B.K. Rao and O.P. Verma, *A preliminary modeling of ionic drift mobility of a nanocomposite 0.9 AgI:SiO₂*, Advances in Electronic Materials & Devices [AEMD-006] held at Guru Ghasidas University, P.K. Bajpai et al (eds) New Delhi, India 2006.
45. **Mohan L. Verma**, Mimi Mukherjee, B. K. Rao and Lalit K. Bhaiya, *A preliminary modeling of space charge dielectric constant of nanocomposite [0.9AgI :0.1 SiO₂] modeling*, proceeding of National conference in recent trends in material science (RTMS06), North Maharashtra University, Jalgaon (MS) 2006.
46. **Mohan L. Verma**, K. Deshmukh and Anil Choubey -“*Modeling and Determination of drift mobility of Ag⁺ in 0.75 AgI:0.25AgCl*”, proceeding of National Conference on Physics of Nano Structured Functional Materials 72-76 2007.
47. **Mohan L. Verma**, B. K. Rao and Mimi Mukherjee -“*Modeling and evaluation of Ag⁺ diffusion in nanocomposite electrolyte 0.9AgI:0,1SiO₂*”, proceedings of National Conference on Physics of Nano Structured Functional Materials 52-56 2007.

48. Mimi Mukherjee, **Mohan L. Verma**, S. Bhushan and Purna Bose, “*Electro-optical studies of chemically deposited Lanthanum/Neodymium doped (Cd-Pb)S films*”, proceedings of National Conference on Physics of Nano Structured Functional Materials 78-82 2007.
49. **Mohan L. Verma** and B. Keshav Rao “*Modeling of Space Charge Density in Nanocomposite Solid Electrolyte 0.9AgCl:0.1SiO₂*”, proceeding of International conference on interdisciplinary approach in physical sciences: Growing trends and recent advances, Guru Ghansidas University Bilaspur (Chhattisgarh) India 2008.
50. **Mohan L. Verma**, Mimi Mukherjee and Arti Verma, *Structural characterization of nano- crystalline CdS by digital image processing* in the proceeding of International conference of Interdisciplinary approach in physical sciences : growing trends and recent advances, Guru Ghansidas University Bilaspur (Chhattisgarh) India 2008.
51. **Mohan L. Verma**, B. Keshav Rao and Homendra Sahu, *Modeling of a transport properties of a nano-composite material*, proceedings of National Conference on recent trends in physics of solids, Excellent publishing house, eds. K.V.R. Murthy et al. pp. 59-63 2011.

Conference/Workshop Attended

1. A conference on National Science Day Feb 28, 1997 organized by MPCOST Bhopal at Pt. Ravishankar Shukla University Raipur.
2. National conference on Luminescence and its applications, Oct. 13-15, 1997, at School of studies in physics, Pt. Ravishankar Shukla University Raipur (C.G.).
3. A conference on the National Science Day Feb. 28, 1998, organized by MPCOST Bhopal at Pt. Ravishankar Shukla University Raipur.
4. Third National conference on Solid State Ionics, March 23-21, 1998. Dept. of physics, NERIST, Nirjuli (Itanagar) Arunachal Pradesh.
5. National conference on Science and Technology of Exotic Materials June 5-6, 1998. Dept of physics Barkatulla University Bhopal (M.P.).
6. Research Training Workshop, Nov. 22-28, 1998, Physics Dept. Banaras Hindu University Varanasi (India).
7. Sixth Asian conference on Solid State Ionics, Nov 29-Dec 4, 1998, Surajkund India.
8. 5th National conference on Solid State Ionics Feb. 15-17, 2002. Dept of physics Nagpur University Nagpur.

9. National Workshop on Physics & Applications of Luminescence to Nano-Science, Radiation Dosimetry & Geology” (NWPAL-09) by the Department of Applied Physics on 3-4 Dec. 2009.
10. 8th National Conference on Solid State Ionics: Materials for Novel Devices 2009, Sagar, M.P. India.
11. 11th National Conference on Solid State Ionics (NCSSI-11), Dept. of Physics, Tezpur University on 21-23, Dec. 2015.

Research Papers Presented in Conferences

1. Mimi Mukherjee, Mohan L. Verma, Swagota Sarkar and S. Bhushan: Advances in Electronic Materials & Devices [AEMD–006] held at Guru Ghasidas University 2006 Photoconductivity and nanoparticle studies of some chemically deposited Cds & (Cd-Pb)S films.
2. Mohan L. Verma, Mimi Mukherjee, B.K. Rao and O.P. Verma: Advances in Electronic Materials & Devices [AEMD–006] held at Guru Ghasidas University 2006 A Preliminary modeling of ionic drift mobility of a nanocomposite 0.9 AgI: SiO₂.
3. Mohan L. Verma, Mimi Mukherjee, B.K. Rao and Lalit K. Bhaiya : National Conference in Recent Trends in Material Science (RTMSO6) 2006, North Maharashtra University, Jalgon (MS) A preliminary modeling of space charge dielectric constant of nano composite [0.9AgI:0.1 SiO₂] : modeling.
4. Mohan L. Verma, K. Deshmukh and Anil Choubey presented in National Conference on Physics of Nano Structured Functional Materials (BITCON 2007) Determination of Space Charge Dielectric Constant of γ -AgI : A Preliminary Modelling
5. Mohan L. Verma, B.K.Rao & Mimi Mukherjee, presented in National Conference on Physics of Nano Structured Functional Materials 2007, at Bhilai Institute of Technology-Durg (Chhattisgarh) Modeling and evaluation of Ag⁺ diffusion in nanocomposite electrolyte 0.9AgI:0.1SiO₂.
6. Mohan L. Verma, Mimi Mukherjee, S. Bhushan and Purna Bose presented in National Conference on Physics of Nano Structured Functional Materials 2007, Bhilai Institute of Technology-Durg(Chhattisgarh) Electro-optical studies of chemically deposited Lanthanum/Neodymium doped (Cd-Pb)S films.
7. Mohan L. Verma, Anil Choubey, Mimi Mukherjee and B.K.Rao presented in National Conference on Advances in Electronic Materials and Devices (AEMDO7),

- Bilaspur 2007, Trap modulated Mobility of Ag⁺ ions in 0.9AgI:0.1SiO₂: Modeling and Determination at room temperature.
8. Mohan L. Verma and Arti Verma, Horizons of electrolytic, electronics and photonic material physics 2007, Shri Shankaracharya College of Engg. & technology- Junwani Bhilai, Chhattisgarh Application of image processing in the characterization of nanomaterials.
 9. Mohan L. Verma and B. Keshav Rao, Horizons of electrolytic, electronics and photonic material physics 2007, Shri Shankaracharya College of Engg. & technology- Junwani Bhilai, Chhattisgarh Modeling of space charge density in nanocomposite electrolyte (0.9AgI:0.1SiO₂).
 10. M. Mukherjee, S. Bhushan and Mohan L. Verma, Horizons of electrolytic, electronics and photonic material physics 2007, Shri Shankaracharya College of Engg. & technology- Junwani Bhilai, Chhattisgarh Photoconductive studies on chemically deposited doped and undoped (Cd-Pb)S films.
 11. Mimi Mukherjee, Mohan L. Verma and Shashibhushan in the national conference on Horizons of electrolytic, electronics and photonic material physics 2007, Shri Shankaracharya College of Engg. & Technology,- Junwani, Bhilai, Chhattisgarh Electro-optical properties of some chemically deposited rare-earth semiconducting film.
 12. Mohan L. Verma and B. Keshav Rao Modeling of Space Charge Density in Some Nanocomposite Solid Electrolyte, 11th Asian Conference on Solid State Ionics at BU-DRDO Centre for Life Sciences, Bharathiar University, Coimbatore, India 2008.
 13. Mohan L. Verma, B. Keshav Rao, Homendra Sahu and Nirbhay K. Singh Modeling and Determination of Space Charge Dielectric Constant of Nanocomposite Electrolyte 0.9[0.75 AgI : 0.25 AgCl] : SiO₂, 11th Asian Conference on Solid State Ionics, at BU-DRDO Centre for Life Sciences, Bharathiar University, Coimbatore, India 2008.
 14. Mohan L. Verma, Nirbhay K. Singh and Homendra Sahu, Supercapacitors for hybrid electric vehicles: A survey and modeling of new control structure in New materials for pollution free energy devices 11th Asian Conference on Solid State Ionics, at BU-DRDO Centre for Life Sciences, Bharathiar University, Coimbatore, India 2008.
 15. Mohan L. Verma, B. Keshav Rao, Arti Verma and Mimi Mukherjee “Structural

- Characterization of Ionic Materials Applying Digital Image Processing of SEM/TEM Image : A novel Approach” in New materials for pollution free energy devices, 11th Asian Conference on Solid State Ionics, at BU-DRDO Centre for Life Sciences, Bharathiar University, Coimbatore, India 2008.
16. Mohan L.Verma & B.Keshav Rao presented in (Silver Jubilee International Conference, CONIAPS-X at Guru Ghasidas University,Bilaspur 2008) Modeling of Space Charge Density in Nanocomposite Solid Electrolyte 0.9AgCl : 0.1SiO₂.
 17. Mohan L. Verma, Mimi Mukherjee and Arti Verma presented in (Silver Jubilee International Conference,CONIAPS-X at Guru Ghansidas University, Bilaspur 2008) Structural characterization of nano-crystalline CdS by digital image processing.
 18. Modeling of Percolation Ionic Current in Nanocomposite Solid Electrolyte, Mohan L. Verma and B. Keshav Rao, in the 8th National Conference on Solid State Ionics: Materials for Novel Devices 2009, Sagar, M.P. India.
 19. Mohan L. Verma & B. Keshav Rao, Modeling of Space Charge Conductivity in Some Nanocomposite Solid Electrolyte, New Horizons in Physics and Electronics, St. Thomas College, Bhilai(C.G.) 2010.
 20. Mohan L. Verma, B.Keshav Rao and Homendra Sahu, Modeling of a transport property of a nano-composite material, Recent Trends in Physics of Solids, GVYTPGA College, Durg (C.G.) 2011.
 21. Mohan L. Verma, B. Keshav Rao and Upma, The Role of Computer Experiments in Research and Development of Chhattisgarh, National Conference on Role of Science & Technology for Sustainable Development of Chhattisgarh, SSGI, Bhilai, 25-26 Jan. 2012.
 22. B. Keshav Rao and Mohan L Verma, A Density Functional Approach: Cationic Interaction in Polymer Systems, National Conference on Nanoscience and Nanotechnology, SSGI, Bhilai, 8 Nov. 2014.
 23. Nirbhay Singh, Mohan L Verma and B Keshav Rao, Electrical and electrochemical behavior on nano-composite polymer electrolyte (NCPE) membrances: (1-x)(PEO70:AgI30)(1-x):xTiO₂ for capacitor application, third International Conference on polymer and characterization, at Mahatma Gandhi University, Kottayam, 11-13 Oct., 2014.

24. Mohan L Verma, Rachana Singh and B Keshav Rao, First principle study of light emitting electrochemical cell, Third International Conference on Polymer and Characterization, at Mahatma Gandhi University, Kottayam, 11-13 Oct., 2014.
25. Rachna Singh, Mohan L Verma and Upma, Study of electrolyte materials for LEEC: A DFT approach, National Conference on Nanostructured Materials and Their Characterization, Bhilai Institute of Technology, Bhilai, C.G., 20-21, Feb. 2015.
26. Upma, Mohan L Verma and Rachna Singh, Ab Initio Studies on Electronic Structure and Charge Density of Potato Starch, National Conference on Nanostructured Materials and Their Characterization, Bhilai Institute of Technology, Bhilai, C.G., 20-21, Feb. 2015.
27. Rachna Singh and Mohan L Verma, Comparative Study of Electrolyte Materials for LEEC: A first principle approach, National Conference on Polymer Science, Shri Shankaracharya Technical Campus (SSGI), Bhilai, 21 March, 2015.
28. B Keshav Rao, Mohan L Verma, Homendra Sahu & Nirbhay K Singh, The First Principle Study of 0.75AgI:0.25AgCl: A Density Functional Approach, All India Conference on Sustainable Product Development, CSIT, Durg, 24-25 April, 2015.
29. Mohan L Verma and Rachna Singh, 11th National Conference on Solid State Ionics (NCSSI-11), Dept. of Physics, Tezpur University on 21-23, Dec. 2015.
30. Mohan L Verma, Rachna Singh and B. Keshav Rao, First principal study of PPV-PEO-LiClO₄ in the context of light emitting electrochemical cell, 11th National Conference on Solid State Ionics (NCSSI-11), Dept. of Physics, Tezpur University on 21-23, Dec. 2015.
31. Upma, Mohan L Verma, Rachna Singh and Ranveer Kumar, First principle studies on structural and electronic properties of PEO₅-LiI, 11th National Conference on Solid State Ionics (NCSSI-11), Dept. of Physics, Tezpur University on 21-23, Dec. 2015.
32. Mohan L Verma, Homendra D Sahu, Nirbhay K Singh and Ranveer Kumar, Impedance spectroscopy study of PEO based nanocomposite polymer electrolyte processed with magnetic field, 11th National Conference on Solid State Ionics (NCSSI-11), Dept. of Physics, Tezpur University on 21-23, Dec. 2015.

Professional Activities and membership

1. Reviewer of various international Journal viz : Journal of Ionics, Journal of Material Science and Engineering-B, Journal of Alloys and Compounds, Journal of material

- research etc.
2. Delivered a series of lectures on “Piezoelectric materials and optoelectronic devices” from 13th – 15th November 2006 at Govt. V. Y. T. P. G. Autonomous College, Durg(C.G.).
 3. Attended the Transit of Venus: Training Programme for Master Resource Persons of Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand and Orissa is being organised from 14-15th May, 2012 at M.P. Council of Science & Technology, Vigyan Bhawan, Nehru Nagar, Bhopal-462003 in joint collaboration of NCSTC, DST, New Delhi, MPCOST, Bhopal and Vigyan Prasar, Noida from Chhattisgarh state (Chhattisgarh Council of Science and Technology), I am nominated to participate in this programme.
 4. Deputed by Chhattisgarh Council of Science and Technology as state level resource person to participate in the National Orientation Workshop for finalization of activity guide of National Children's Science Congress 2012-13 from 11-13 June 2012 at regional institute of education (NCERT) Mysore Karnataka . The focal theme selected by NCSTC -Department of Science and Technology (DST) is "Energy : Explore, Harness & Conserve.
 5. Life member of National Society of Solid State Ionics.
 6. Life member of The Society for Advancement of electrochemical Science and Technology, Karaikudi.
 7. Life member of material research society of India.
 8. Life member of Indian Society for Technical Education(Regd. No. LM40806).
 9. Life member of Indian Association of Physics Teachers (8198 L-4779).

Dr. Mohan L Verma