Dr. Yogesh Kumar Sharma

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Present Designation:

Head- Department of Physics, SBS Govt. P.G. College Rudrapur (Kumaun University, Nainital)

Educational Qualifications:

2003-CCNA: G. B. Pant Agri. & Tech. University, Pant Nagar, India

1991-Ph.D: Experimental Physics; University of Jodhpur, Jodhpur, India
Thesis Title: Spectral and Electrical properties of lanthanide ions in different environment.

1985-M.Sc: Physics; Agra University, Agra, India

1983-B.Sc: Physics, Chemistry and Mathematics; Agra University, Agra, India

Areas of Interest:

Solid State Physics, Materials Science - Laser Materials and Spectroscopy of Lanthanide ions. and Nano Materials
(Preparation and characterization of lanthanide doped amino acid ternary complexes, lanthanide doped glasses)

Research Experience: 29 years (1986-till date)

Publications

Research Papers in Published in referred Journals : 47
Research Papers Presented in Conferences : 43
Sponsored Research Project : 04 (Completed)
No. of D.Phil/ Ph.D. Students : 08 (Awarded-05(one as a co-supervisor), and Registered-04)
Books Published : 03 (One Edited Book)
Project Reports : 04

Teaching Experience

Under graduate and Post graduate : 21 years (1994-till date)

Post Held	Institution	Duration	Pay scale	Assignment
Associate Professor	S.B.S Govt. P.G. College Rudrapur	Jan.9,2011 to till date	Rs 37400-67000/-	Teaching and Research
Reader	S.B.S.Govt. P.G. College Rudrapur	Jan.9,2008 to Jan.8,2011	Rs 15600-39100/-	Teaching and Research
Senior Lecturer	Govt. P.G. College Rudrapur	July 22, 2005 to Jan.8,08	Rs.10000-15300/-	Teaching and Research
Senior Lecturer	Govt. P.G. College	Jan 9,2003 to	Rs.10000-15300/-	Teaching and

	Uttarkashi	July21, 05		Research
Lecturer	Govt. P.G. College Uttarkashi	Jan.9,1999 to Jan.8,03	Rs. 8000- 13500/-	Teaching and Research
Assistant Professor	J.N.V.University Jodhpur	Nov.'94 to Jan.7,1999	Rs. 2200- 4000/-	Teaching and Research
SSO-II	Indian Institute of Technology, Delhi	2nd Dec.'91 to Oct.' 1994	Rs. 2200- 4000/-	Research
S.R.A.	Indian Institute of Technology, Delhi	1st July 91 to 1st Dec.'91	Rs. 1640- 3500/-	Research

Academic honors

- Awarded DRDO fellowship for doctoral research (1986 to1989)
- Awarded Young Scientist Project by Department of Science and Technology, Govt. of India (1991 to 1994).

Academic Activities

Theory and Practical Examiner of various universities in India i.e. K.U. Nainital, H.N.B.G University Srinagar, Ruhelkhand University Bareilly (U.P.), B.R.A. University Agra (U.P.), S.M. University Kanpur (U.P.) and J.N.V. University Jodhpur (Rajasthan)

Positions of Responsibility

- Director, Deen Dayal Upadhyay Kaushal Kendra
- Head, Department of Physics, SBS Govt P.G.College Rudrapur
- Coordinator, Study Centre of Uttarakhand Open University, Haldwani.
- Member Seretary, B.Ed Department (Self Financing), SBS Govt. P.G. College Rudrapur.
- Nodal Officer-EDUSAT Programme, SBS Govt. P.G. College Rudrapur
- Executive Member of National Committee , Indian Association of Physics Teachers

Special Training

- DTS Training at Uttarakhand Academy of Administration, Nainital; Sept. 12-16, 2005
- EDUSAT Training at Doon University, Dehradun; Nov.30- Dec.01, 2010

Memberships Of Academic societies

- Life Member of Indian Association of Physics.
- Life Member of Indian Association of Physics Teachers.
- Life Member of Semi Conductor Society of India.
- Life Member of Indian Science Congress Association

Languages: English and Hindi.

Personal Information:

Date of Birth: February 20, 1966
Gender: Male
Marital Status: Married
Nationality: Indian
Address: Department of Physics
S.B.S.Govt. Post Graduate College Rudrapur-263153 (Uttarakhand),India.

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(Dr Y. K. SHARMA)

LIST OF PUBLICATIONS

PUBLISHED IN JOURNALS:

1. Y.K.Sharma, S.P.Tandon, N.B.Bishnoi, S.S.L.Surana, M.P.Bhutra & K..Tandon; Absorption spectra of Pr^{3+}: L-leucine: 2,3-butandiol ternary complex; Indian J. Phys. Nat. Sci. (India), **9B,** 17-21 (1988).

2. S.P.Tandon, M.P.Bhutra, S.S.L.Surana, K.Bhati, N.B.Bishnoi, Y.K.Sharma and K.K.Sule; Various parameters inferred from diffuse reflectance spectra of some Ni^{2+} complexes; Indian J. Pure Appl. Phys. (India), **28**, 213-214 (1990). Impact Factor-0.711

3. S.P.Tandon, Y.K.Sharma, N.B.Bishnoi, S.S.L.Surana, M.P.Bhutra and K. Tandon; A comparative spectral study of some Pr^{3+} binary and ternary complexes of amino acids in different solvents, Indian J. Pure Appl. Phys. (India), **28**, 209-210(1990). Impact Factor-0.711

4. S.P.Tandon, Y.K.Sharma, N.B.Bishnoi, M.P.Bhutra, S.S.L.Surana and K..Tandon; A comparative study of fluorescence of Pr^{3+} in different environments; Indian J. Phys. (India), **64B**, 236-240 (1990). Impact Factor-1.785

5. S.P.Tandon, Y.K.Sharma, N.B.Bishnoi and S.S.L.Surana; Spectroscopic studies of Nd^{3+} ternary amino acid complexes; Rev. Tec. Ing. Univ. Zulia (Venezuela), **14**, 169-172 (1991). Impact Factor-0.047

6. Y.K.Sharma, N.B.Bishnoi, S.S.L.Surana and S.P.Tandon; Spectral studies of Pr^{3+}, Sm^{3+} and Ho^{3+} ions in sodium barium borate glass; J. Pure Appl. Phys. (India), **4**, 200-211 (1992). Impact Factor-0.711

7. Y.K.Sharma, N.B.Bishnoi, S.S.L.Surana and S.P.Tandon; Study of absorption spectra of Sm^{3+} ternary amino acid complexes; Indian J. Phys. (India), **66B**, 375-378 (1992). Impact Factor-1.785

8. Y.K. Sharma, N.B. Bishnoi, S.S.L. Surana, M.P. Bhutra, S.P. Tandon and K. Tandon; Fluorescence studies of Pr^{3+}, Sm^{3+} and Ho^{3+} amino acid ternary complexes in aqueous solution; Rev. Tec. Ing. Univ. Zulia (Venezuela), **16**, 21-26 (1993). Impact Factor-0.047

9. N.B.Bishnoi, Y.K.Sharma, S.S.L.Surana and S.P.Tandon; Electrical and optical study of Cr^{3+} doped chlorophosphate and phosphate glasses, Synthetic Metals (Sweden), **57**, 5088-5093 (1993). Impact Factor-2.222

10. S.P.Tandon, N.B.Bishnoi, Y.K.Sharma, S.S.L.Surana and K.Tandon; Fluorescence spectra of praseodymium and samarium amino acid ternary complexes; Indian J. Phys. (India), **67B**, 259 -264 (1993). Impact Factor-1.785

11. Y.K.Sharma and S.P.Tandon; Spectral studies of Ho^{3+} ternary amino acid complexes in state of solution; Sing. J. Phys. (Singapore), **10**, 7-13 (1994).

12. Y.K.Sharma, S.C.Mathur, D.C.Dube and S.P.Tandon; Optical absorption spectra and energy band gap in praseodymium borophosphate glasses; J. Mat. Sci. Lett. (UK), **14**, 71-73 (1995). Impact Factor-1.420

13. S.P.Tandon, N.B.Bishnoi, S.S.L.Surana, K.Tandon and Y. K. Sharma; Effect of doping concentration on spectral properties of doped glasses; Sing. J. Phys. (Singapore), **11**, 73-79 (1995).

14. S.P.Tandon, N.B.Bishnoi, Y.K.Sharma and S.S.L.Surana; Dependance of fluorescence spectra of Pr^{3+} doped chlorophosphate glasses on doping concentration; Sing. J. Phys. (Singapore), **11**, 93- 97 (1995).

15. S.C.Mathur, Y.K.Sharma, B.K.Sharma, D.C.Dube and A.S.Bhalla; Electrical properties of CuO doped sodium borate glasses, phys. stat. solid (a) (Germany), **153**, 57-63 (1996). Impact Factor-1.21

16. Y.K.Sharma, D.C.Dube and S.P.Tandon; Spectral studies of Pr^{3+} doped borophosphate glass; Mat. Sci. Forum, (Switzerland), **223**, 105-108 (1996). Impact Factor-2.309

17. Y.K.Sharma, S.C.Mathur, D.C.Dube and S.P.Tandon; Electral and Optical band gap studies in neodymium borophosphate glasses; J. Mat. Sci. Lett. (UK), **15**, 1054-1056 (1996). Impact Factor-1.420

18. S.P.Tandon, Y.K.Sharma, N.B.Bishnoi and K. Tandon; Optical studies of rare earth lasing materials; Def. Sci. J. (India), **47**, 225-238 (1997). Impact Factor-0.31

19. Y.K. Sharma, R.C. Sagar, S.P. Tandon and K. Tandon; Absorption studies of chloroborophosphate glasses doped with Sm^{3+} ion in visible region; Proceedings of International conference on the physics of disordered materials, (Edited by M.P.Saksena, N.S.Saxena & Deepika Bhandari), NISCOM, New Delhi (India) pp. 28-31 (1997).

20. Y.K.Sharma, M.C.Sharma, S.S.L.Surana and S.P.Tandon; Laser action in praseodymium alkali aluminoborophosphate glasses; Proceedings of International conference on the physics of disordered materials, (Edited by M.P.Saksena, N.S.Saxena & Deepika Bhandari), NISCOM, New Delhi (India) pp. 32-35 (1997).

21. Y.K.Sharma, S.P.Tandon and S.S.L.Surana; Laser action in praseodymium doped zinc chloride borophosphate glasses; Mat. Sci. and Engg. (France), **B77**, 167-171(2000). Impact Factor-2.122

22. Y.K. Sharma, S.P. Tandon, S.S.L.Surana, M.C.Sharma and C.LGehlot: Fluorescence of praseodymium doped borophosphate glasses; Canadian J. of Analytical Science and Spectroscopy (Canada)., **45**, 66 (2000). Impact Factor-0.42

23. Y.K.Sharma, R.P.Dubedi, V. Joshi and S.P.Tandon; Neodymium ion in Sodium barium borate glasses; Laser Horizon (India), **4**, 41-49 (2000).

24. S.S.L.Surana, Y.K.Sharma and S.P.Tandon; Laser action in neodymium doped zinc chloride borophosphate glasses; Mat. Sci. and Engg. (France) **B83**, 204-209 (2001). Impact Factor-2.122

25. Y.K.Sharma, S.S.L.Surana, C.L.Gehlot and S.P.Tandon; Optical studies and laser parameters of various Pr^{3+} doped glass systems; Indian J. Eng. and Mat. Sci. (India) **10,** 215-218 (2003). Impact Factor-0.641

26. S.S.L.Surana, C.L.Gehlot, S.P.Tandon and Y.K.Sharma ; Fluorescence of Sm^{3+}, Eu^{3+}, Tb^{3+}, Ho^{3+} and Er^{3+} doped borophosphate glasses; Can. J. Analytical Sciences and Spectroscopy (Canada) **48**, 285-294 (2003). Impact Factor-0.42

27. S.S.L.Surana, Y.K.Sharma, C.L.Gehlot and S.P.Tandon; A Comparative study of laser action in various Pr^{3+} doped glasses; Proceedings of National Conference on Disordered Materials, (Edited by S.Prakash, Navdeep Goyal and S.K.Tripathi), Narosa Publishing House, New Delhi (India) pp. 45-48 (2003).

28. Y.K.Sharma, S.S.L.Surana and R.K.Singh; Spectral studies of Nd^{3+} ions in silicate glass; Proceedings of National Conference on Emerging Materials and Technologies, (Edited by P.Narasimha Reddy), S.V. University Tirupati (India) pp. 204-208 (2004).

29. Y.K.Sharma, R.P.Dubedi, V.Joshi, K.B.Karnataka and S.S.L.Surana; Absorption studies of tripositive praseodymium and neodymium doped zinc fluoride borophosphate (ZFBP) glasses; Indian J. Eng. and Mat. Sci. (India), **12**, 65-74 (2005). Impact Factor-0.641

30. Y.K.Sharma, S.S.L.Surana, R.P.Dubedi and V.Joshi; Spectroscopic and radiative properties of Sm^{3+} doped zinc fluoride borophosphate glasses; Mat. Sci. and Engg. B (France), **119(2)**, 131-135 (2005). Impact Factor-2.122

31. Y.K. Sharma, S.S.L.Surana, R.K. Singh and R.P.Dubedi, Spectral studies of Erbium doped soda lime silicate glasses in visible and near infrared regions; Optical Materials, (Netherland),**29**, 508-604 (2007). Impact Factor-2.023

32. Y.K.Sharma, S.S.L.Surana and R.K.Singh, Optical absorption and fluorescence spectra of Pr (III) doped silicate glasses and their Judd-Ofelt analysis to study lasing characteristics; Indian J. Pure & Appl. Phys. (India), **46**, 239-244 (2008). Impact Factor-0.763

33. Y.K.Sharma, S.S.L.Surana and R.K.Singh, Spectroscopic investigations and luminescence spectra of Sm^{3+} doped soda lime silicate glasses; J. Rare Earth (China), **27**, 773-780 (2009) Impact Factor-0.901

34. Y.K.Sharma, R.P.Joshi and S.S.L.Surana; NIR Luminescence from Nd3+ and Er3+ ions doped cadmium borate glasses for optical amplification; American Institute of Physics Conf. Proc. (USA) **1393**, 381 (2011). Impact Factor-1.03

35. Y.K.Sharma, R.K.Singh and Sudha Pal; Laser properties of neodymium ion in sodium silicate glasses; Int. J. Adv. Res. **2(10)** 1 (2014). Impact facor-0.321

36. Yogesh Kumar Sharma, Rajendra Prasad Joshi and Priyanka Goyal ; Optical Band Gap and Physical Properties of Nd^{3+} doped Cadmium Borate Glasses; American J. Physics and Applications (USA), **2(6),** 162-166 (2014). Impact Factor-0.782

37. Y.K.Sharma, R.K.Singh and Sudha Pal; Praseodymium ion doped sodium borosilicate glasses: Energy interaction and Radiative properties; American J of Condense Matter Physics; **5(1),** 10-18 (2015) **Impact Factor-0.801**

38. Yogesh Kumar Sharma, Priyanka Goyal, Sudha Pal and Umesh Chandra Bhind; Optical and Physical Analysis of Nd^{3+} Doped Borosilicate Glasses: J. Mat. Sci. and Engg. (USA) **B5 (11-12)**, 406-417 (2015).

39. Yogesh Kumar Sharma, Rajendra Prasad Joshi, Sudha Pal and Priyanka Goyal; Spectroscopic properties of Lithium Borate Glass Materials with Neodymium ions: Chiang Mai J. Sci. (Thialand) **43 (2)**, 311-319 (2016). **Impact Factor-0.420**

40. Y.K.Sharma, Sudha Pal, Priyanka Goyal and Umesh Chandra Bind; Optical Characterization of ZnO nanomaterial with praseodymium ions: American Institute of Physics Conference Proceedings (USA), **1728**, 020160-4 (2016). **Impact Factor-1.03**

41. Yogesh Kumar Sharma, Priyanka Goyal, Sudha Pal, Umesh Chandra Bind; Laser action in praseodymium doped borosilicate glasses in visible region: J. Chem. Eng. Chem. Res., **3(11)** 1031-1035 (2016). **Impact Factor-3.025.**

42. Yogesh Kumar Sharma, Priyanka Goyal, Sudha Pal, Umesh Chandra Bind; Fluorescence properties of samarium ion in ZnO nanomaterials: J. Chem. Eng. Chem. Res.; **3(11)** 1027-1030 (2016). **Impact Factor-3.025.**

43. Akansha Gupta and Y.K.Sharma; Diverse Strategies for Skill Development for Next-Gen: Edited book entitled "Skill Development and Technological Innovation; Published by Jagdamba Publishing Company, New Delhi, 181-196 (2016) ISBN NO: 978-93-85437-08-3

44. Priyanka Goyal, Sudha Pal,Umesh Chandra Bind and Yogesh Kumar Sharma; Structural and Physical Analysis of Borosilicate glasses with Pr^{3+} ions: Advanced Material Proceeding (USA), **2(2)**, 119-124,(2017). **Impact Factor-18.960.**

45. Sudha Pal, Y.K.Sharma, Priyanka Goyal, Jitendra Pal and Akhilesh Yadav; Optical Properties of Europium ion doped ZnO Nanomaterial: Int. J. Adv. Res. Tech, **6**, 186-192 (2017). **Impact Factor -4.**

46. Priyanka Goyal, Yogesh Kumar Sharma, Sudha Pal, Umesh Chandra Bind, Shu-Chi Huang and Shyan-Lung Chung; The effect of SiO2 content on Structural, Physical and spectroscopic properties of Er3+ doped B2O3-SiO2-Na2O-PbO-ZnO glass systems: J. Non-Cryst. Solids, **463**, 118-127 (2017). **Impact Factor-2.124**

47. Priyanka Goyal, Yogesh Kumar Sharma, Sudha Pal, Umesh Chandra Bind, Shu-Chi Huang and Shyan-Lung Chung; Structural, Optical and Physical analysis of B2O3-SiO2-Na2O-PbO-ZnO glass with Sm3+ ions for reddish-orange laser emission: J. Luminescence, **192**, 1227-1234 (2017). **Impact Factor- 2.686**

48. Priyanka Goyal, Yogesh Kumar Sharma, Sudha Pal, Umesh Chandra Bind, Shu-Chi Huang and Shyan-Lung Chung; Radiative properties of Er^{3+} doped borosilicate glasses for fibre optics applications: Materials Today Proc.,**5**, 344-350 (2018). **Impact Factor-17.793.**

49. Priyanka Goyal and Yogesh Kumar Sharma; A Comparative study of radiative Properties in Pr^{3+}, Nd^{3+}, Sm^{3+} and Er^{3+} doped Oxide Glasses: J. Lumin., (Communicated). **Impact Factor-2.686.**

PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCES:

1. S.P.Tandon, N.B.Bishnoi, Y.K.Sharma, S.S.L.Surana, M.P.Bhutra and K.Tandon; Judd-Ofelt intensity parameters of Pr^{3+} complexes of L-alanine as primary ligand and 2,3 butandiol as secondary ligand; Indian Science Congress, Pune (India) (1989).

2. S.P.Tandon, Y.K.Sharma, N.B.Bishnoi, S.S.L.Surana, M.P.Bhutra and K.Tandon; Spectroscopic parameters of Pr^{3+} ternary complexes with glycine as primary ligand and 2,3 butandiol as secondary ligand; Indian Science Congress, Pune (India) (1989).

3. S.P.Tandon, Y.K.Sharma, N.B.Bishnoi, S.S.L.Surana, M.P.Bhutra and K.Tandon; Spectral, electrical and thermal study of Nd^{3+} doped sodium alumino phosphate glass; Indian Science Congress, Madurai (India) (1990).

4. S.P.Tandon, N.B.Bishnoi, Y.K.Sharma, S.S.L.Surana, M.P.Bhutra and K.Tandon; Spectral study of Nd^{3+} doped borate glass; Indian Science Congress, Madurai (India) (1990).

5. S.P.Tandon, Y.K.Sharma, N.B.Bishnoi, S.S.L.Surana, M.P.Bhutra and K.Tandon; Absorption and fluorescence study of Nd^{3+} doped borate glasses; Indian Science Congress, Indore (India) (1991).

6. S.P.Tandon, Y.K.Sharma, N.B.Bishnoi, S.S.L.Surana, and K.Tandon; Electrical conductivity of lanthanide doped sodium barium borate glasses; Indian Science Congress, Indore (India) (1991).

7. Y.K.Sharma, N.B.Bishnoi, S.S.L.Surana and S.P.Tandon; Optical properties of rare earth ions in oxide glasses, The Bulk and Interfacial Electronic Structure of ceramics Symposium, 94^{th} annual meeting Minneapolis, Minnesota, (U.S.A.) April 12-16 (1992).

8. Y.K.Sharma and S.P.Tandon; Spectral studies of Ho^{3+} ternary amino acid complexes in the state of solution, 5^{th} Asia Pacific Physics Conference, Kualalumpur (Malaysia) Aug. 10-15 (1992).

9. S.C.Mathur, D.C.Dube, Y.K.Sharma and S.P.Tandon, D.C. Conductivity of cupric oxide doped lithium sodium and potasium barium borate glasses, 5^{th} Asia Pacific Physics Conference, Kualalumpur (Malaysia) Aug. 10-15 (1992).

10. Y.K.Sharma, S.C.Mathur, D.C.Dube and S.P.Tandon, D.C. Conductivity of cupric oxide doped alkali borate glasses, National workshop on Polymer, Ceramics and Composites, Jamshedpur (India) Dec. 29-31 (1992).

11. N.B.Bishnoi, Y.K.Sharma, S.S.L.Surana and S.P.Tandon, D.C.Conductivity and Spectral study of Co^{2+} doped chlorophosphate glasses, Third Asian Conference on Solid State Ionics, Varanasi (India) Nov. 9-13 (1992).

12. S.P.Tandon, N.B.Bishnoi, Y.K.Sharma, S.S.L.Surana and K.Tandon, Study of fluorescence and laser parameters for Pr^{3+} doped chlorophosphate glasses, Indian Science Congress, Goa (India) (1993).

13. Y.K.Sharma, S.C.Mathur, D.C.Dube and S.P.Tandon, Spectral properties and laser analysis of Pr^{3+} and Sm^{3+} doped borophosphate glasses, Sixth International Conference on the structure of non-crystalline materials, Praha (Czech Republic) Aug. 29- Sept. 2 (1994).

14. S.P.Tandon, Y.K.Sharma, M.C.Sharma and R.C.Sharma, Spectroscopic properties of Pr^{3+} ion in chloroborophosphate glasses, International Conference on Moleculer Spectroscopy, Aligarh (India) Dec.27-31 (1994).

15. Y.K.Sharma, D.C.Dube and S.P.Tandon, Spectral studies of Pr^{3+} doped borophosphate glass, International Seminar on Current Developments in Disordered Materials, Kurukshetra (India) Jan. 22-24 (1996).

16. S.P.Tandon, R.C.Sagar, S.S.L.Surana and Y.K.Sharma, Judd-Ofelt analysis of neodymium ions in chloroborophosphate glass, International Seminar on Current Developments in Disordered Materials, Kurukshetra (India) Jan. 22-24 (1996).

17. B.M.Kothari, Y.K.Sharma and S.P.Tandon, Spectral study of non-crystalline solids: Praseodymium doped borophosphate glasses, Recent Advances in the Physics of Solids and Solid State Devices, Jodhpur (India) Nov. 21-23 (1996).

18. R.C.Sagar, Y.K.Sharma and S.P.Tandon, Spectral behaviour of lanthanide ions in non-crystalline solids, Recent Advances in the Physics of Solids and Solid State Devices, Jodhpur (India) Nov. 21-23 (1996).

19. M.C.Sharma, Y.K.Sharma, S.S.L.Surana and S.P.Tandon, Fluorescence study of alkali aluminoborophosphate glasses doped with Pr^{3+} ion, Recent Advances in the Physics of Solids and Solid State Devices, Jodhpur (India) Nov. 21-23 (1996).

20. S.P.Tandon, Y.K.Sharma and C.L.Gehlot, D.C. Conductivity of Sm^{3+} doped borat glasses, National seminar on Physics of Materials for electronic and optoelectronic devices, Jodhpur (India), March 8-10 (1999).

21. S.S.L.Surana, Y.K.Sharma, C.L.Gehlot and S.P.Tandon, A Comparative study of laser action in various Pr^{3+} doped glasses, National conference on Recent development in disordered materials; Punjab (India), March 15-16, (2001).

22. Y.K.Sharma, V.Joshi and R.P.Dubedi; Energy Interaction analysis of neodymium ion in borophosphate glasses, Indian Science Congress, Lucknow (India) Jan. 3 to 7 (2002)

23. Y.K.Sharma, V.Joshi and R.P.Dubedi; Absorption studies of neodymium ion in zinc fluoride borophosphate glasses, Indian Science Congress, Bangalore (India) Jan. 3 to 7 (2003)

24. Y.K. Sharma, S.S.L.Surana and R.K. Singh, Spectral Studies of Nd^{3+} ions in silicate glasses, National Conference on Emerging Materials and Technologies, Tirupati (India) Aug. 03- 04 (2004).

25. Y.K.Sharma and R.K.Singh, "Laser action analysis in Neodymium doped sodium silicate glass" Second Annual Conference of Academica at Rishikesh (India) March 1-2 (2006).

26. Y.K.Sharma and R.K.Singh, "Laser analysis in Pr^{3+} doped silicate glass" International Conference on Laser and Nanomaterials at University of Calcutta (India) Nov.30- Dec.2 (2006).

27. Y.K.Sharma and R.K.Singh, "Spectral studies of Sm^{3+} doped sodium silicate glass" State Level Seminar on Opportunities and scope for research in government colleges at Pithoragarh (India) March 16-17 (2007).

28. Y.K.Sharma, "Characterization of Rare Earth Materials" National Workshop on Recent Trends in Nanotechnology at S.G.S.I.T.S, Indore (India) March 29-31 (2007).

29. Y.K.Sharma, R.K.Singh and R.P.Joshi "Optical Properties of Samarium ions in mixed alkali silicate glasses" 3rd Uttarakhand Science Congress at I.I.T.Roorkee (India) Nov. 14-16(2008).

30. Y.K.Sharma and R.K.Singh "Laser action analysis of Neodymium ion in silicate glass" 4th Uttarakhand State Science and Technology Congress at GBPUAT, Pantnagar (US Nagar) Nov.10-12, (2009).

31. Y.K.Sharma, R.P.Joshi and R.P.Dubedi; "Laser Transition Characteristics of Nd3+ doped lithium borate glasses" National Conf. On Recent Advances in Materials Science & Engg. at Jaypee University of Engg. & Tech. Raghogarh, Guna (M.P.) Oct. 23-24 (2010).

32. Priyanka Goyal and Y.K.Sharma; "Spectral analysis of neodymium ions with amorphous material for laser action" National Conference on RTMSNS-12 at Govt. P.G.College Rudrapur (uttarakhand) Jan.3-4, (2012).

33. R.P.Joshi and Y.K.Sharma; "Spectral studies of oxide glasses with neodymium ions for fiber amplifier" National Conference on RTMSNS-12 at Govt. P.G.College Rudrapur (uttarakhand) Jan.3-4, (2012).

34. R.P.Dubedi, Y.K.Sharma and V. Joshi; "Sol gel technique for the production of optical fibres" National Conference on RTMSNS-12 at Govt. P.G.College Rudrapur (uttarakhand) Jan.3-4, (2012).

35. R.K.Singh, Y.K.Sharma and R.P.Dubedi; "DC conductivity of undoped and praseodymium ions doped borosilicate glasses" National Conference on RTMSNS-12 at Govt. P.G.College Rudrapur (uttarakhand) Jan.3-4, (2012).

36. Sudha Pali and Y.K.Sharma; "Synthesis and Characterization of Nanomaterial with rare earth ions" National Conference on NCRTIRASS-2012 at Govt. P.G. College Haldwani (Uttarakhand) Nov.3-4, (2012).
37. Y.K. Sharma, R.P. Joshi, Sudha Pal and Priyanka Goyal "Spectral Characterization of lithium borate glass material with neodymium ions" International Conference on Nanoscience & Nanotechnology (ICNN-13) at B.B.A. University, Lucknow (India) Nov.18-20, (2013).

38. Y.K.Sharma; "Role of IT in Uttarakhand" National Seminar on Uttarakhand: Treasures and Tears at S B S Govt. P.G. College Rudrapur (U.S.Nagar) Nov.10, (2014)

39. Y.K.Sharma; “Crisis of Values in Human Rights” National Seminar on Crisis of Values in Contemporary world with special reference to India at S B S Govt. P.G.College Rudrapur (U.S.Nagar) March 29, (2014)

40. Y.K.Sharma; “Study of environmental effect in SIDCUL area “National Seminar on Environment, Globalization and Quality of Life at S B S Govt. P.G.College Rudrapur (U.S.Nagar) Dec. 02-03, (2014)

41. Y.K.Sharma and Priyanka Goyal; “Optical energy band gap of Pr3+ doped lead borosilicate glasses” National Seminar on NSRDPPSPSS-2014 at M.B. Govt. P.G. College Haldwani (Uttarakhand) Dec. 27-28, (2014).

42. Y.K.Sharma; “Synthesis of Pr3+ doped ZnO Nano Material” National Workshop on Recent Trends in Nanotechnology and Higher Tech Materials at Vishwavidyalaya Engineering College, Lakhanpur (C.G.) Jan. 9-10 (2015).

43. Y.K.Sharma; “Role of Distance Education in Higher Education” National Seminar on Concepts of Distance Education in Higher Education at S B S Govt. P.G. College Rudrapur (U.S.Nagar) Jan. 20, (2015).

44. Y.K.Sharma; “Structural and Physical Analysis Borosilicate glasses with Pr^{3+} ions”, International Conference on Materials Science & Technology at Delhi University, Delhi, India, 1-4 March, (2016).

45. Y.K.Sharma; “Laser action In Praseodymium doped Borosilicate Glasses in Visible region International Conference” International Conference on Energy, Functional Materials & Nanotechnology at Kumaun University, Nainital (Uttarakhand) India, ICEFN, 27-29 March (2016).

46. Y.K.Sharma; “Diverse Strategies for Skill Development for Next -Gen.” National Conference on Skill Development and Technological Innovation at DDUKK S.B.S. Govt. P.G. College Rudrapur (U.S.Nagar) March 30-31 (2016).

47. Y.K.Sharma; “Focus on Skill, Not Scale in IT-ITeS Industry” National Conference on Transforming Indians through Skill Development and Technological Advancement at DDUKK S.B.S.Govt. P.G. College Rudrapur (U.S. Nagar) March 24-25 (2017).

Research Projects

S. No.	Project Title	Funding Agencies	Period	Status
1.	Development and optical studies of rare	U.G.C. Govt. of	3 Years	Completed

	earth laser materials. (F:-10-34/2001 (SR-1) dated 12.03.2001)	India		
2.	Study and Preparation of New Laser Materials for Optical Devices (F:-5.1.3 (Phys) 2/05 (MRP/N RC B) dated 31.03.2005)	U.G.C. Govt. of India	2 Years	Completed
3.	Development & characterization of laser materials File No. UCS&T /R&D /PHY-2/ 06 - 07/1047 dated 6.03.2007	UCOST Govt. of Uttarakhand, Dehradun	3 Years	Completed
4.	Spectroscopic Investigation of Lanthanide doped Glasses for Optical Application F.No.33-21/2007 (SR) dated 28. 02.2008	U.G.C. Govt. of India	3 Years	Completed

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