

Name: Dr. V. K. Sharma

Designation: Emeritus Scientist, CSIR

Date of Birth: 31st Dec. 1950

Department: Department of Chemistry, M. D. University, Rohtak-124001

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A) Educational Profile

Degree	Year of Passing	University / Institute
Ph. D.	1983	M.D.University, Rohtak
PG (M.Sc. Chemistry)	1979	M.D.University, Rohtak
UG (B.Sc. Non-Medical)	1977	G.N.D. Univ., Amritsar

B) Career Profile

Designation	Institution Served	Duration	
		From	To
Lecturer	Hindu College, Sonapat	Oct. 1984	Oct. 1984
Senior Lecturer	M.D.University, Rohtak	Nov. 1989	Nov. 1997
Reader	M.D.University, Rohtak	Nov. 1997	Nov. 2005
Professor	M.D.University, Rohtak	Nov. 2005	Retired on 31/12/2018
Emeritus Scientist	M.D.University, Rohtak	01/01/2019	Till date

C) Research Advisory

No. of Students supervised	Ph. D.	M. Phil
	19	01

D) Projects Undertaken

Title of the Project	Duration	Funding Agency	Status
1. Topological and	01/02/2011 to	UGC, DELHI	Completed

thermodynamic studies of multicomponent Liquid mixtures containing Ionic Liquids	31/01/2014	Rs 14lakh	
2. DST-FIST	Jan 31, 2011 to 2016	DST Rs 1.08 Crores	Completed
3. Special Assistance Program (SAP)	01/04/2016 to 31/03/2021	UGC Rs 1.18 Crores	Ongoing

E) Publications

Research Papers

a. Published in refereed /Peer Reviewed Journals 140

b. Published in conferences / Seminar Proceedings 50

Participation in Conferences / Seminars/ Workshops 25

List of Publications

1. Topological aspects of thermodynamics of binary mixtures of non-electrolytes, P. P. Singh, R. K. Nigam, K. C. Singh and **V. K. Sharma**, *Themochim. Acta* 46, 175-190, 1981. **Impact Factor 2.236**
2. Topological aspects of excess enthalpies of binary mixtures of non-electrolytes, P. P. Singh, R. K. Nigam, **V. K. Sharma**, S. P. Sharma and K. C. Singh, *Themochim. Acta*, 52, 87-102, 1982. **Impact Factor 2.236**

3. Thermodynamics of ternary mixtures of non-electrolytes: Excess volumes, P. P. Singh and **V. K. Sharma**, *Canad. J. Chem.* 61, 2321-2328, 1983. **Impact Factor 1.061**
4. Thermodynamics of ternary mixtures of non-electrolytes: Excess Enthalpies, P. P. Singh and **V. K. Sharma**, *Z. Phys. Chemie.* 265, 915-928, 1984. **Impact Factor 1.178**
5. Molar excess volumes and molar excess enthalpies of binary mixtures of methylenebromide + aromatic hydrocarbon mixtures, P. P. Singh, R. K. Nigam and **V. K. Sharma**, *Fluid Phase Equilibria* 81, 313-331, 1984. **Impact Factor 1.846**
6. NMR studies of molecular interactions between benzene + methylene bromide + p-xylene mixtures, P. P. Singh, R. K. Nigam and **V. K. Sharma**, *Z. Phys. Chemie.* 265, 359-364, 1984. **Impact Factor 1.178**
7. Ion-pairs in aqueous solutions and the transition model of electrolytic behavior, P. P. Singh, H. P. Dahiya and **V. K. Sharma**, *Indian .J. Chem.* 25A, 116-122, 1986. **Impact Factor 0.729**
8. Liquid - Vapour equilibria in some binary liquid mixtures of non-electrolytes, **V. K. Sharma** and P. P. Singh, *Z. Phys. Chemie.* 207, 805-810, 1986. **Impact Factor 1.178**
9. Topological studies of the molecular species that characterize lower alkanol + methylene bromide mixtures: Molar excess volumes and molar excess enthalpies, P. P. Singh, **V. K. Sharma** and S. P. Sharma, *Thermochim. Acta* 106, 293-307, 1986. **Impact Factor 2.236**
10. Thermodynamics of methylene bromide + aromatic hydrocarbon mixtures Molar excess Gibbs free energy of mixing, P. P. Singh and **V. K. Sharma**, *Fluid Phase Equilibria* 44, 347-355, 1989. **Impact Factor 1.846**
11. Thermodynamics of binary mixtures of non-electrolytes: Molar excess Gibbs free energy of mixing, **V. K. Sharma**, S.P. Sharma and Sadhna Aggarwal, *Indian .J. Chem.* 31A, 398-402, 1992. **Impact Factor 0.729**
12. Excess molar volumes of binary mixtures containing nitrotoluene at 308.15K, **V. K. Sharma** and S. Maken, *Indian J. Chem.* 31A, 721-722, 1992. **Impact Factor 0.729**

13. Topological investigations of aniline and substituted anilines in binary solutions containing methylene bromide, **V. K. Sharma**, P. P. Singh, S. Maken and Bhup Singh, *Canad. J. Chem.* 71, 2183-2188, 1993. **Impact Factor 1.061**
14. Solute - solute interaction enthalpies in solution of copper (II) chloride in organic solvents having nitrogen donor atoms, P. P. Singh, S. Maken and **V. K. Sharma**, *Fluid Phase Equilibria* 93, 277-283, 1994. **Impact Factor 1.846**
15. Adsorption from some binary solutions on silica gel, S. K. Shanna, **V. K. Sharma** and Bharat Singh, *Indian J. Chem.* 33A, 259-262, 1994. **Impact Factor 0.729**
16. Molecular interactions in binary mixtures of non-electrolytes: Molar excess volumes and molar excess enthalpies, **V. K. Sharma**, P. P. Singh, S. Maken and Jaibirsingh, *Indian J. Chem.* 33A, 727-731, 1994. **Impact Factor 0.729**
17. Thermodynamics and topological investigations of molecular interactions in methylene bromide + nitrobenzene mixtures, **V. K. Sharma**, P. P. Singh and Bhup Singh, *Indian J. Chem.* 33A, 287-290, 1994. **Impact Factor 0.729**
18. Molar excess volumes of binary and ternary mixtures containing chloroaniline, **V. K. Sharma**, P. P. Singh and S. Maken, *J. Chem. Eng. Data* 39, 238-240, 1994. **Impact Factor 2.323**
19. Thermodynamics of molecular interactions in water some + non-electrolyte mixtures, **V.K. Sharma**, O. P. Yadav & Jaibir Singh, *Indian. J. Chem.* 34A, 594-601, 1995. **Impact Factor 0.729**
20. Physico-chemical studies of aqueous sodium dodecyl sulphate solutions in pyridine and isomeric picolines, **V. K. Sharma**, O. P. Yadav and Jaibir Singh, *J. Colloids & Surfaces* 110, 23-35, 1996. **Impact Factor 2.236**
21. Conductometric, surface tension and thermodynamic studies of aqueous sodium dodecyl benzene sulphonate in pyridine and isomeric picolines, **V. K. Sharma**, O. P. Yadav and Jaibir Singh, *Indian J. Chem.*, 35A, 1056-1061, 1996. **Impact Factor 0.729**
22. Physico-chemical studies of some surfactants solutions in water and in water + pyridine mixtures, **V. K. Sharma**, O. P. Yadav and Jaibir Singh, *Indian J. Chem.*, 35A, 337-341, 1996. **Impact Factor 0.729**

23. Thermodynamics and topological investigations in binary mixtures containing nitrobenzene, K. C. Kalra, **V. K. Sharma** and A. Katoch, *Indian J. Chem.*, 35A, 390-394, 1996. **Impact Factor 0.729**
24. Molar excess volumes and Molar excess enthalpies of binary mixtures containing nitrobenzene, K. C. Kalra, **V. K. Sharma** and A. Katoch, *Indian J. Chem.*, 36A, 46 -52, 1997. **Impact Factor 0.729**
25. Physico-chemical studies of some aqueous surfactants in alcohol, **V. K. Sharma** and Jaibir Singh, *J. Surf. Sci. & Technol.*, 13 (2-4), 166 -178, 1997. **Impact Factor 1.994**
26. Thermodynamic properties of ternary mixtures containing nitrobenzene, **V. K. Sharma**, K. C. Kalra and A. Katoch, *Canad. J. Chem.*, 75, 1896-1904, 1997. **Impact Factor 1.061**
27. Ultrasonic speeds and isentropic compressibilities of some water + non-electrolyte mixtures, **V. K. Sharma** and & A. Katoch, *Indian J. Chem.*, 37A, 59-62, 1998. **Impact Factor 0.729**
28. Thermodynamical investigations of some non-electrolytic ternary mixtures, K.C. Kalra, **V.K. Sharma** and A. Katoch, *Indian J. Chem.*, 37A, 308-315, 1998. **Impact Factor 0.729**
29. Thermodynamics of solutions containing surfactant in mixed solvent, **V. K. Sharma**, O. P. Yadav and Jaibir Singh. *Indian J. Chem.*, 37A, 498-506, 1998. **Impact Factor 0.729**
30. Molar excess enthalpies of ternary mixtures containing nitrobenzene, K. C. Kalra, **V. K. Sharma** and A. Katoch, *Indian J. Chem.*, 37A, 393-398, 1998. **Impact Factor 0.729**
31. Topological investigations of molecular interactions in binary mixtures containing methylene bromide, **V. K. Sharma**, Jaibir Singh and Bhup Singh, *Indian J. Chem.*, 37A, 586-591, 1998. **Impact Factor 0.729**
32. Thermodynamic studies of solution containing surfactants in mixed solvent, **V. K. Sharma**, Jaibir Singh and D. Soni, *J. Surf Sci. & Technol.*, 14 No(1-4) 141-149, 1998. **Impact Factor 0.851**

33. Molar excess volumes and molar excess enthalpies of ternary mixtures containing nitrobenzene at 308.15 K, K. C. Kaira, **V. K. Sharma** and A. Katoch, *J. Chem. Thermodyn.*, 30, 449 -458, 1998. **Impact Factor 2.726**
34. Thermodynamics of molecular interaction in binary mixtures containing nitromethane: Molar excess volumes and molar excess enthalpies, **V. K. Sharma** and Jaibir Singh, *Indian. J. Chem.*, 38A, 65 -69, 1999. **Impact Factor 0.729**
35. Topological investigations of molecular interactions in water + 1,4-dioxane mixture, **V. K. Sharma** and Jaibir Singh, *Indian J. Chem.*, 38A, 271-274, 1999. **Impact Factor 0.729**
36. Thermodynamics of ternary mixtures: Molar excess volumes, **V. K. Sharma**, K. C. Kaira and A. Katoch, *Indian J. Chem.*, 38A, 230-236, 1999. **Impact Factor 0.729**
37. Ultrasonic speeds and isentropic compressibilities of mixtures containing nitrobenzene, K. C. Kaira, **V. K. Sharma** and A. Katoch, *Indian J. Chem.*, 38A, 482 -485, 1999. **Impact Factor 0.729**
38. Thermochemical and topological investigations of ternary mixtures containing ether, **V. K. Sharma** and Romi, *Indian J. Chem.*, 40A, 1156-1160, 2001. **Impact Factor 0.729**
39. Topological investigations in binary mixtures containing ether: Molar excess volumes and molar excess enthalpies, **V. K. Sharma**, Rajni and Romi, *Indian J. Chem.*, 40A, 1277-1281, 2001. **Impact Factor 0.729**
40. Molar excess volumes of ternary mixtures containing ether, **V. K. Sharma** and Romi, *Canad. J. Chem.*, 79, 1910-1914, 2001. **Impact Factor 1.061**
41. Thermodynamics of molecular interactions in micellar solutions, **V. K. Sharma**, O. P. Yadav, M. Singh and Jaibir Singh. *J. Surf Sci. & Technol.*, 17 No 1-2, 1-8, 2001. **Impact Factor 0.851**
42. Thermodynamics of molecular interactions in mixtures containing ether, **V. K. Sharma** and Romi, *Indian J. Chem.*, 41A, 1, 1167-1172 (2002). **Impact Factor 0.729**
43. Thermodynamics of ternary mixtures: Excess isentropic compressibilities, **V. K. Sharma**, K. C. Kalra, Romi and A. Katoch, *Indian J. Chem.*, 42A, 292-294 (2003). **Impact Factor 0.729**

44. Topological investigations of binary and ternary mixtures containing cyclic ether: Excess isentropic compressibilities, **V. K. Sharma**, Romi and Satish Kumar, *Indian J. Chem.*, 42A, 1379-1384, 2003. **Impact Factor 0.729**
45. Topological investigations of molecular interactions of containing alkanols: Molar excess volume and molar excess enthalpies, **V. K. Sharma** and Satish Kumar, *Thermochim. Acta*, 413, 255-259, 2004. **Impact Factor 2.236**
46. Topological investigations of binary and ternary mixtures: Excess isentropic compressibilities, **V. K. Sharma**, Romi and Satish Kumar, *Thermochim. Acta*, 417, 91-97, 2004. **Impact Factor 2.236**
47. Molar excess volumes of ternary mixtures containing cyclic ether, **V. K. Sharma** and Satish Kumar, *J. Solution. Chem.*, 34 (2)199-212, 2005. **Impact factor 1.342**
48. Topological investigations of molecular interactions in mixtures containing 1,4-dioxane and alkanols, **V. K. Sharma** and Satish Kumar, *Thermochim. Acta*, 428, 83-90, 2005. **Impact Factor 2.236**
49. Isentropic compressibility changes of mixing for 1,3-dioxolane or 1,4-dioxane + water + propanol ternary mixtures, **V. K. Sharma** and Satish Kumar, *J. Solution Chem.* 34, 387-405, 2005. **Impact factor 1.342**
50. Excess isentropic compressibilities for 1,3-dioxolane or 1,4-dioxane + water + formamide or N, N-dimethylformamide ternary mixtures at 308.15K, **V. K. Sharma** and Satish Kumar, *J. Solution Chem.* 34(6), 713- 731, 2005. **Impact factor 1.342**
51. Topological investigations of some cyclic ether-water-alkanol ternary mixtures: Molar excess volumes, **V. K. Sharma** and Satish Kumar, *J. Solution Chem.* 34 (7), 839- 852, 2005. **Impact factor 1.342**
52. Molecular interactions in binary mixtures containing o-toluidine: Dimple, J. S. Yadav, K.C. Singh and **V.K. Sharma**, *Thermochim. Acta* 468, 108-115, 2008. **Impact Factor 2.236**
53. Topological and thermodynamical investigations of molecular interactions of aniline and o-toluidine with chloroform: Dimple, Jaibir S. Yadav, Satish Kumar, K.C. Singh and **V.K. Sharma**, *Thermochim. Acta* 471, 74-79, 2008. **Impact Factor 2.236**

54. Molar excess volumes and excess isentropic compressibilities of ternary mixtures: Dimple, Jaibir S. Yadav, K.C. Singh and **V.K. Sharma**, *J. Chem. Eng. Data*, 53, 1935-1939, 2008. **Impact Factor 2.323**
55. Molar excess volumes and excess isentropic compressibilities of ternary mixtures containing o-toluidine: Dimple, Jaibir S. Yadav, K.C. Singh and **V.K. Sharma**, *J. Solution Chem.* 37, 1099-1112, 2008. **Impact factor 1.342**
56. Topological and Thermodynamic investigations of binary mixtures: Molar excess volumes, Molar excess enthalpies and Isentropic compressibility changes of mixing: Dimple, Jaibir S. Yadav, Satish Kumar, K.C. Singh and **V.K. Sharma**, *Thermochim. Acta* 475, 8-14, 2008. **Impact Factor 2.236**
57. Molar Excess Volumes and Excess Isentropic Compressibilities of {2-Methylaniline (i) + Benzene (j) + Methylbenzene}, {2-Methylaniline (i) + Benzene (j) + 1,2-Dimethylbenzene (k)}, and {2-Methylaniline (i) + Benzene (j) + 1,4-Dimethylbenzene (k)} at $T = 308.15$ K: Dimple, Jaibir S. Yadav, K. C. Singh and **V. K. Sharma**, *J. Chem. Eng. Data* 54, 2109-2112, 2009. **Impact Factor 2.323**
58. Topological investigations of thermodynamic properties of binary mixtures containing 2-pyrrolidinone: Jaibir S. Yadav, Dimple and **V.K. Sharma**, *Thermochim. Acta* 489, 45-52, 2009. **Impact Factor 2.236**
59. Topological investigations of the molecular species and molecular interactions that characterize pyrrolidin-2-one + lower alkanols mixtures: J. S. Yadav, Dimple and **V.K. Sharma**, *Thermochim. Acta* 493, 19-24, 2009. **Impact Factor 2.236**
60. Thermodynamical investigations of molecular interactions in ternary mixtures containing 2-pyrrolidinone at 308.15K. Molar excess volumes and Excess isentropic compressibilities: Jaibir S. Yadav, Dimple and **V.K. Sharma**, *Thermochim. Acta* 496, 166-172, 2009. **Impact Factor 2.236**
61. Molar excess volumes and excess isentropic compressibilities of ternary mixtures containing 2-pyrrolidinone: Jaibir S. Yadav, Dimple and **V.K. Sharma**, *WASET* 29, 29-35, 2009.
62. Thermodynamic and Acoustic Properties for Binary and Ternary mixtures of Cyclic Ethers with Industrially Important Solvents at 308.15K: Satish Kumar, Wonsub Lee,

- Youngee Lee, Jaibir S. Yadav , Dimple Sharma, **V.K. Sharma**, IL Moon *J. Mol. Liquids* 155, 8-15, 2010. **Impact factor 3.648**
63. Thermodynamic properties of ternary liquid mixtures of 2-pyrrolidinone with aromatic hydrocarbons: Jaibir S. Yadav, Dimple and **V.K. Sharma**, *Int. J. Thermophys.* 31, 327-337, 2010. **Impact Factor 0.963**
 64. Excess molar volumes and isentropic compressibilities changes of mixing of tetrahydropyran + benzene + cyclo or n-alkanes ternary mixtures at 308.15K. Rajesh K. Siwach, Dimple, and **V. K. Sharma** *Thermochim. Acta* 503, 85-89, 2010. **Impact Factor 2.236**
 65. Thermodynamic properties of binary mixtures containing tetrahydropyran: excess molar volumes, excess molar enthalpies and isentropic compressibilities changes of mixing. Rajesh K. Siwach, Dimple, and **V. K. Sharma** *Thermochim. Acta* 506, 1-7, 2010. **Impact Factor 2.236**
 66. Thermodynamic Investigation of Molecular Interactions in 1,3-dioxolane or 1,4-dioxane + benzene or toluene + formamide or + di-methylformamide Ternary Mixtures at 308.15 K and Atmospheric Pressure: Satish Kumar, Jaibir S. Yadav, **V.K. Sharma** and IL. Moon *J. Solution Chem.* 39, 680-691, 2010. **Impact factor 1.342**
 67. Excess molar volumes of ternary mixtures of cyclic ether with aromatic hydrocarbons at 308.15 K: Rajesh K. Siwach, Dimple Sharma, Sunil K Jangra and **V. K. Sharma**. *Solution Chem.* 39, 1492-1500, 2010. **Impact factor 1.342**
 68. Thermodynamic properties of binary mixtures of Tetrahydropyran with anilines at 308.15K, Sunil K. Jangra, Jaibir S. Yadav, Neeti, Dimple, and **V. K. Sharma** *J. Chem. Eng. Data* 55, 4525-4531, 2010. **Impact Factor 2.323**
 69. Topological investigations of molar excess volumes and excess isentropic compressibilities of ternary mixtures containing 2-pyrrolidinone at 308.15K: Jaibir S. Yadav, Satish Kumar, Dimple and **V.K. Sharma**, *Int. J. Thermophys* 31, 2201-2215, 2010 **Impact Factor 0.963**
 70. Thermodynamic properties of liquid mixtures containing 1,3-dioxolane and anilines: Excess molar volumes, excess molar enthalpies, excess Gibb's free energy and isentropic compressibilities changes of mixing: Sunil Kumar, Jaibir S Yadav, Neeti, Dimple, **V. K. Sharma** *Thermochim. Acta* 511, 74-81, 2010. **Impact Factor 2.236**

71. Excess molar volumes, excess molar enthalpies and excess isentropic compressibilities of tetrahydropyran with aromatic hydrocarbons: **V. K. Sharma**, Rajesh K. Siwach, and Dimple *J. ChemThermodyn.* 43, 39-46, 2011. **Impact Factor 2.726**
72. Excess molar volumes of ternary liquid mixtures composed of 1, 4-Dioxane, o-toluidine, and aromatic hydrocarbons at temperature of 308.15K. Sunil K. Jangra, Neeti Saini, J. S. Yadav, R. K. Siwach, , Dimple, **V. K. Sharma**, *J. Mol. liquids*, 158, 192-196, 2011. **Impact factor 3.648**
73. Thermodynamic and topological investigations of molecular interactions in binary and ternary mixtures containing 1-methyl pyrrolidin-2-one at 308.15 K: Yameeka, J.S. Yadav, Dimple and **V.K. Sharma**, *J. Chem. Thermodyn.*43, 737-749, 2011. **Impact Factor 2.726**
74. Thermodynamic properties of binary mixtures of tetrahydropyran with pyridine and isomeric picolines: Excess molar volumes, excess molar enthalpies and excess isentropic compressibilities: Neeti, Sunil K. Jangra, J. S. Yadav, Dimple and **V. K. Sharma**. *Thermochim. Acta* 518, 13-26, 2011. **Impact Factor 2.236**
75. Thermodynamic studies of molecular interactions in mixtures of o-toulidine with pyridine and picolines: Excess molar volumes, excess molar enthalpies and excess isentropic compressibilities: Neeti, Jaibir S. Yadav, Sunil K. Jangra, Dimple and **V. K. Sharma**, *J. Chem. Thermodyn.*, 43, 782-795, 2011. **Impact Factor 2.726**
76. Physicochemical Properties of JatropaCurcas Biodiesel + Diesel Fuel No.2 Binary Mixture at $T=$ (288.15 to 308.15K) and Atmospheric Pressure: Satish Kumar, J. S.Yadav, **V. K. Sharma**, Wonsub Lim, Jae Hyun Cho, Junghwan Kim and Il Moon, *J. Chem. Eng. Data*, 56(3), 497-501, 2011. **Impact Factor 2.323**
77. Topological investigations of excess molar volumes and excess isentropic compressibilities of ternary mixtures containing 1-methyl pyrrolidin-2-one at 308.15 K: Yameeka, J. S. Yadav, Dimple and **V. K. Sharma**. *J. Mol. Liquids* 159, 230–235, 2011. **Impact factor 3.648**
78. Topological and Thermodynamic studies for binary mixtures of 1, 4-Dioxane with anilines at 308.15 K: **V. K. Sharma**, Sunil K. Jangra, Jaibir S. Yadav, Neeti Saini and Dimple Sharma, *J. Solution Chem.*40, 1563–1581, 2011. **Impact factor 1.342**

79. Sound speeds and excess isentropic compressibilities of ternary mixtures of tetrahydropyran and aromatic hydrocarbons at 308.15K. Rajesh K. Siwach, Dimple and **V. K. Sharma** *Int. J. Thermophys.*, 32, 1188-1201, 2011. **Impact Factor 0.963**
80. Topological and thermodynamic investigations of ternary mixtures containing cyclic ether: Excess molar volumes: Sunil K. Jangra, J.S. Yadav, Neeti, Dimple and **V.K. Sharma**. *J. Solution Chem.*, 40, 1055-1066, 2011. **Impact factor 1.342**
81. Thermodynamic investigations of ternary *o*-toluidine + tetrahydropyran+ N,N-dimethylformamide mixture and its binaries at 298.15, 303.15 and 308.15K Neeti, S. K. Jangra, J. S. Yadav, Dimple and **V. K. Sharma**, *J. Mol. Liquids* 163, 36-45, 2011. **Impact factor 3.648**
82. Topological investigations of molecular interactions of binary and ternary mixtures containing tetrahydropyran, *o*-toluidine and N-methylformamide, Neeti, Sunil K. Jangra, J.S. Yadav, Dimple, **V. K. Sharma**, *Thermochim. Acta* 524, 92–103, 2011. **Impact Factor 2.236**
83. Topological and thermodynamic investigations of ternary mixtures containing cyclic ether: Excess molar enthalpies Sunil K. Jangra, Neeti, Jaibir S. Yadav, Dimple and **V. K. Sharma**. *J. Mol. Liquids*, 162, 122-128, 2011. **Impact factor 3.648**
84. Thermodynamic and topological investigations of ternary mixtures with *o*-toluidine, tetrahydropyran, and picolines: Excess molar volume and excess isentropic compressibility Neeti Hooda, S. K. Jangra, Dimple Sharma, **V.K. Sharma**, *J. Chem. Thermodyn.*, 47, 109–119, 2012. **Impact Factor 2.726**
85. Excess molar enthalpies for binary and ternary mixtures containing cyclic ether, 2-methylaniline and aromatic hydrocarbons, Sunil K. Jangra, Neeti, J. S. Yadav, Dimple, **V. K. Sharma**, *Thermochim. Acta*, 530, 25–31, 2012. **Impact Factor 2.236**
86. Excess molar enthalpies of ternary mixtures containing *o*-toluidine + tetrahydropyran with pyridine or isomeric picolines or benzene or toluene at 308.15 K, Neeti, S.K. Jangra, D. Sharma, **V.K. Sharma**, *Thermochim. Acta*, 531, 28-34, 2012. **Impact Factor 2.236**
87. Thermodynamic study of molecular ternary mixtures containing 1-methyl pyrrolidin-2-one, propan-2-ol and benzene or methyl benzene or cyclohexane: Yameeka, Jaibir S.

- Yadav, Dimple and **V. K. Sharma**, *J. Solution Chem.* 40, 1769-1783, 2012. **Impact factor 1.342**
88. Densities and sound speed of Jatropha Biodiesel + (C₄-C₅) Alkan-1-ol Binary Mixtures: Satish Kumar, **V. K. Sharma**, Wonsub Lim, Il Moon, *J. Chem. Eng. Data* 57, 2236-2242, 2012. **Impact Factor 2.323**
 89. Topological investigations of binary mixtures containing Ionic liquid 1-ethyl-3-methylimidazolium tetrafluoroborate and pyridine or isomeric picolines: Subhash, Neeti and **V.K. Sharma**, *J. Chem. Thermodyn.* 56, 123-135, 2013. **Impact Factor 2.726**
 90. Excess molar volumes, excess molar enthalpies and excess isentropic compressibilities of binary mixtures containing N-methyl-2-pyrrolidone and isomeric xylenes at 308.15K: Y. Chhikara, J. S. Yadav, D. Sharma and V. K. Sharma, *J. Solution. Chem.* 41, 1696-1712, 2012 **Impact factor 1.342**
 91. Topological investigations of binary mixtures containing 1-ethyl-3-methylimidazoliumtetrafluoroborate and anilines: **V.K. Sharma** and Subhash, *J. Mol. Liquids* 177, 133-144, 2013. **Impact factor 3.648**
 92. Thermodynamic and Topological Studies of 1-ethyl-3-methylimidazolium tetrafluoroborate + Pyrrolidin-2-one and 1-methyl pyrrolidin-2-one Mixtures: D. Sharma, S. Bhagour and **V. K. Sharma**, *J. Chem. Eng. Data* 57, 3488-3497, 2012. **Impact Factor 2.323**
 93. Thermodynamic properties of binary mixtures of the ionic liquid [emim][BF₄] with acetone and dimethylsulphoxide: S. Bhagour, S. Solanki, N. Hooda, D. Sharma and V. K. Sharma, *J. Chem. Thermodyn.* 60, 76-86, 2013. **Impact Factor 2.726**
 94. Excess molar volumes, excess molar enthalpies and excess isentropic compressibilities of 1-methylpyrrolidin-2-one with water and propanols: Yameeka, Dimple, J. S. Yadav and V. K. Sharma, *J. Solution. Chem.* 42, 372-389, 2013. **Impact factor 1.342**
 95. Excess molar volumes and excess isentropic compressibilities of o-toluidine + tetrahydropyran with pyridine or benzene or toluene ternary mixtures at 298.15, 303.15 and 308.15K, N. Hooda, S. K. Jangra, D. Sharma, **V.K. Sharma**, *J. Solution. Chem.* 42, 282-302, 2013. **Impact factor 1.342**

96. Molecular interactions in 1-ethyl-3-methylimidazolium tetrafluoroborate + amide mixtures: Excess molar volumes, excess isentropic compressibilities and excess molar enthalpies: **V.K. Sharma** and S. Bhagour, *J. Solution. Chem.* 42, 800-822, 2013. **Impact factor 1.342**
97. Volumetric Properties of 1, 3-Dioxolane + Toluene + o- or p-Xylene ternary mixtures at 25.00 °C and atmospheric pressure: S. Kumar, **V. K. Sharma**, Il Moon, *J. Solution. Chem.*, 42, 1936-1944, 2013. **Impact factor 1.342**
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- i. Member PG-BOS in Chemistry
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- k. Member, Executive Committee of Haryana state council for Science and technology (DST)
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