

Dr. Sunil K. Jangra
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A) Educational Qualifications

Degree	Year of Passing	University/Institute
Phd (Best thesis Awarded)	2011	MDU Rohtak
M.Phil	2007	VMU, Tamil Nadu
Post Graduation	2006	MDU Rohtak
Graduation	2004	MDU Rohtak

B) Career Profile

Designation	Institution Served	Duration		Experience
Assistant Professor	A.I. Jat H.M. College	1 August 2011	Till date	8 years 1 month

C) Research Advisory

No. of Students supervised	Phd	M.Phil.
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D) Projects Undertaken

Title of the Project	Duration	Funding Agency	Status	
			Completed	In Progress
-	-	-	-	-

E) Publications

BOOKS:

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RESEARCH PAPERS :

i) Published in Referred/Peer viewed Journals and edited books : 18

1. 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 and Dimple Sharma, J. Solution Chem. 40, 1563–1581, 2011.
2. Excess molar volumes of ternary liquid mixtures composed of 1, 4-dioxane, *o*-toluidine, and aromatic hydrocarbon at temperature of 308.15 K. **Sunil K. Jangra**, Neeti, J. S. Yadav, Dimple and V. K. Sharma, J. Mol. Liquids, 158, 192-196, **2011**.
3. Thermodynamic studies of molecular interactions in mixtures of *o*-toluidine 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. Thermodynamic and topological investigations of ternary mixtures with *o*-toluidine, tetrahydropyran, and picolines: Excess molar volume and excess isentropic compressibility, Neeti, **S. K. Jangra**, Dimple Sharma, V. K. Sharma, J. Chem. Thermodyn., 47, 109–119, 2012.
10. 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.
11. 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.
12. 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**¹, Jaibir S Yadav, Neeti, Dimple, V.K. Sharma *Thermochim. Acta* 511, 74-81, 2010.
13. Thermodynamic properties of binary mixtures of Tetrahydropyran with anilines at 308.15 K. **Sunil K. Jangra**, Jaibir S. Yadav^S, Neeti, Dimple[#], and V. K. Sharma *J. Chem. Eng. Data* 55, 4525-4531, 2010.
 14. 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 *J. Solution Chem.* 39, 1492-1500, 2010.
 15. 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, Neeti, **S. K. Jangra**, D. Sharma and V. K. Sharma, *J. Solution Chem.*
 16. Excess molar enthalpies for [emim][BF₄] + pyrrolidin-2-one or 1-methylpyrrolidin-2-one + pyridine or water mixtures V.K. Sharma, S. Bhagour, S. Solanki, Sheetal, **S.K. Jangra**, *J. Chem. Thermodyn.*, 68, 235–243, 2014.
 17. Heat capacities of binary and ternary mixture containing *o*-chlorotoulene, cyclic ether and aromatic hydrocarbons, V. K. Sharma, Rajni Dua, Dimple, **Sunil K Jangra**, *Fluid Phase Equilibra*, 378, 83-92, 2014.
 18. Topological Investigations of Mixtures Containing 1-Methylpyrrolidin-2-one, Benzene and Isomeric Chlorotoluenes: Excess Molar Volumes and Excess Isentropic Compressibilities V. K. Sharma • A. Rohilla • **Sunil K. Jangra** • D. Sharma *J Solution Chem*, 43, 2014, 2170-2211

i) Participation in Conferences/Seminars/Workshops : 13

- Paper entitled “**Thermodynamic properties of ternary liquid mixtures of 2-Pyrrolidinone with aromatic hydrocarbons**” presented in 97th Indian Science congress held at Tiruvananthapuram, Kerla on 03-07 Jan, 2010.
- Paper entitled “**Excess molar enthalpies With lactams at 308.15 K**” presented in 100th Indian Science congress held at Calcutta University, Kolkata on 03-07 Jan, 2013.
- “**Topological investigations..... Pyrrolidin-2-one at 308.15 K**” **H. E. C. & C. S. I. R. Sponsored** National conference on Environmental and Health Issues: (In a changing climatic scenario) held at Department of Environmental, M. D. U. Rohtak on 14-15 Oct. 2010.
- “**Excess molar enthalpies for ternary mixtures containing cyclic ether, o-toluidine and aromatic hydrocarbon**” presented in 6th National conference on thermodynamics of chemical and biological system (NCTCBS-2011) held at Department of chemistry, M. D. U. Rohtak on 2-4 Nov. 2011.
- “**Molecular interactions of binary mixtures containing tribromomethane (i) + n-hexane or n-heptane (j)**” presented in National conference on Global challenges-role of science and technology in giving their solutions(GCRSTS-2012) held at The Technological Institute of Textile and science on March 3-4, 2012.
- “**Comparison of thermodynamic data of binary mixtures-----PFP theory**” presented in the National conference on “Advances in chemical sciences” held at Department of chemistry, M. D. U. Rohtak on March 1-2, 2013.

- **“Thermodynamic properties of liquid.....excess molar volumes”**National seminar on Environmental challenges: Sustainable Development held at Department of Environmental, M. D. U. Rohtak on 29-30 March 2010.
- **“Excess molar enthalpieswith picolines”**National seminar on Emerging trends in chemistry (NSETC-2014) on 12-13th March, 2014 organized by Department of chemistry, All India Jat Heroes Memorial College, Rohtak.
- **“Excess molar volumes and excess molar enthalpieswith hydrocarbon,** National conference on global challenges new frontiers in chemical sciences held on September 22-23, 2012 Kurukshetra University, Kurukshetra.
- **Excess molar volumes and excess molar enthalpies of 1,3 dioxlanewith hydrocarbon** National seminar on recent advances in chemistry and their impact on environment (NSRACE-11) held at Department of chemistry, Punjabi University, Patiala on 15-16 Feb., 2011.
- **Attend one day workshop on material science organized by Physics Department of M. D. U. Rohtak** on 25 March 2011.
- Symposium on **“Trends in Translational Medicine”** organized by the department of Biotechnology and Molecular Medicine, PGIMS, Pandit Bhagwat Dayal Sharma University of Health Sciences, Rohtak, on 9 Jan. 2009.