

RESUME

Dr. Ramesh C.Thakur

Professor & Associate Dean
Head, School of Chemical Engineering &
Physical Sciences
Head, Center for Research Degree Programs
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Phagwara-144411, Punjab (India)



Qualifications

- **Ph.D. in Chemistry (2002)** H.P. University Shimla, India. Thesis entitled “A Study of Thermodynamic and Transport Properties of Divalent Transition Metal Sulphates and Magnesium Sulphate in Binary Aqueous Mixtures of Glycols”; under the guidance of Prof. Dr. M.L. Parmar, Ex. Chairman Dean, Physical Sciences, H.P. University Shimla, India
- Pre. Ph.D. Physical Chemistry, H.P. University Shimla (H.P).
- **M.Sc. (Master of Science) (1997)** Physical Chemistry, HNB University Garhwal, India.
- B.Ed. (Gold Medalist) (1997) Jammu University, India.
- B.Sc (1994). H.P. University, Shimla, India

Honors and Awards:

- Gold Medal in B.Ed. (1997) awarded by the then Hon’ble, Prime Minister of India Sh.I.K.Gujral.

Professional Membership:

- Member (1100450843) of The Institution of Engineering and Technology (Founded 1871 Incorporated by Royal Chapter 1921).
- Member (A1019) of The Indian Science Congress Association (Established in 1914).

Publications (Total = 29 till date)

1. M.L.Parmar,D.K.Dhiman **R.C. Thakur** ; A study on viscosity B-coefficients of some mineral salts in binary aqueous solutions of urea at various temperatures; Indian J. Chem., 41A, (2002) 2032.
2. **R.C. Thakur**, M.L. Paramr; Effect of temperature on the partial molar volumes of some divalent transition metal sulphates and magnesium sulphate in water and water + ethylene glycol mixtures; Indian J. Chem., 45A, (2006) 1631.
3. **R.C. Thakur**, M.L. Paramr; Effect of Temperature on the partial molar volumes of some divalent transition metal sulphates and magnesium sulphate in the water-rich region of aqueous mixtures of ethylene glycol; J. Molecular Liquids, 128, (2006) 85.
4. **R.C. Thakur**, M.L.Paramr; Effect of temperature on the partial molar volumes of some divalent transition metal sulphates and magnesium sulphate in binary aqueous mixtures of diethylene glycol; Proc. Nat. Acad. Sci. India, 76(A), III, (2006) 183.
5. **R.C. Thakur** and Ashish Kumar; Nanomagnetites Green Synthesis Assisted by Sunflower Oil Research Journal of Pharmaceutical, Biological and Chemical Sciences,5(6), (2014)1053.
6. **R.C. Thakur**, Ravi Sharma, Ashish Kkumar, Sanjay Kumar and M.L.Parmar; Partial Molar Volumes of Aluminium Chloride, Aluminium Sulphate and Aluminium Nitrate in Water-rich BinaryAqueous Mixtures of Tetrahydrofuran; Oriental Journal of Chemistry;30 (4), (2014) 2037.
7. **R.C. Thakur** and Sonica; Effect of Temperature on Partial Molar Volumes of Some Bivalent Transition Metal Chlorides and Magnesium Chloride in the Water-Rich Region of Binary Aqueous Mixtures of Ethanol; Research Journal of Pharmaceutical, Biological and Chemical Sciences,5(6), (2014) 1298.
8. **R.C. Thakur** and Sonica; Effect of temperature on the partial molar volumes of somebivalent transition metal chlorides in water and binary aqueous mixtures of methanol; International Journal of ChemTech Research,7(5), (2014-15) 2222.
9. Ashish Kumar, **R.C. Thakur**, Wasim Raja; Mustard oil assisted green synthesis of Nanomagnetites, J. Mater. Environ. Sci. 6 (4) (2015) 1105.
10. **R.C. Thakur**, Ravi Sharma, Ashish Kumar, M.L. Parmar; Thermodynamic and transport studies of some aluminium salts in water and binary aqueous mixtures of tetrahydrofuran; J. Mater. Environ. Sci. 6 (5) (2015) 1330.

11. Balwinder Saini, Ravi Sharma and **R.C. Thakur**; Thermodynamics and transport properties of L-Proline in water and binary aqueous mixtures of acetonitrile at 303.15 K; 8 (12), (2015) 395.
12. **R. C. Thakur**, Ravi Sharma, Anu Rana and Sanjay Kumar; Thermodynamic study of calcium chloride and magnesium chloride in binary aqueous mixtures of sucrose at different temperatures; Journal of Chemical and Pharmaceutical Research,7(1),(2015) 176.
13. **R. C. Thakur**, Ravi Sharma, Annu and Ashish Kumar; Transport studies of alkaline earth metal chlorides in binary aqueous mixtures of sucrose at different temperatures; Journal of Chemical and Pharmaceutical Research, 7(1), 2015) 255.
14. Sanjay K. Pathania, Vivek Sharma, **Ramesh C. Thakur**, Radhika Sharma and Reema Sharma; Influence of bovine serum albumin (BSA) on micellization behaviour of sodiumdodecylsulphate (SDS) in aqueous rich mixtures of dimethylsulfoxide at different temperatures; Journal of Chemical and Pharmaceutical Research, 7(3), (2015)1.
15. **R.C. Thakur**, Ravi Sharma, Meenakshi and Ashish Kumar; Thermodynamic Study of Copper Sulphate and Zinc Sulphate in Water and Binary Aqueous Mixtures of Propylene Glycol; Oriental Journal of Chemistry; 31(1), (2015) 363.
16. Sanjay K Pathania, Vivek Sharma, **Ramesh C Thakur**, Ashish Kumar, and Sitansh Sharma; A Comparative Study of Interactions between Protein (Lysozyme) and Ionic Surfactants (SDS, CTAB) in Aqueous Rich Mixtures of DmsO At Different Temperatures; Research Journal of Pharmaceutical, Biological and Chemical Sciences; 6 (1), (2015) 721.
17. Sonika and **Thakur RC**; Effect of Temperature on Viscosity B- Coefficients of Some Transition MetalChlorides and Magnesium Chloride in Water and In Water + Methanol Mixtures; 6(1), (2015) 664.
18. **R.C. Thakur**, Ravi Sharma and Manju Bala; Partial Molar Volumes of Cobalt Nitrate and Nickel Nitrate in Water and Binary Aqueous Mixtures of DMSO at Different Temperatures; J. Mater. Environ. Sci. 7 (9), (2016) 3415.
19. Balwinder Saini, Ravi Sharma, **R.C. Thakur** and R.K.Bamezai; Study of Molecular Interactions of Ternary L-Arginine –Water -1-Ethyl – 3- ,Methylimidazolium Chloride Solutions; Asian Journal of Chemistry 28 (7), (2016) 1599.
20. **Ramesh Thakur**, Ravi Sharma and Balwinder Saini ; Activation Energy Parameters for Hydrodynamic Permeability of Divalent Transition Metal Sulphates and Magnesium

Sulphate in Binary Aqueous Mixtures of Ethylene Glycol; Asian Journal of Chemistry ;28 (9), (2016) 2043.

21. **R. C. Thakur**, Ravi Sharma and Vishali Gill ; Effect of Temperature on the Volumetric Studies of some Thiocyanates in Water; Rasayan J.Chem.; 9 (1), (2016) 44.
22. Ravi Sharma, **R.C. Thakur**, and Balwinder Saini ; Thermo physical Properties of Binary Aqueous Mixtures of Cyclopentanone and Isomeric Forms of n-Butyl Alcohol at 303.15 K; Asian Journal of Chemistry ; 28(10), (2016) 2331.
23. **R.C. Thakur**, Ravi Sharma, Sonika Singh and M.L.Parmar; Activation Energy Parameters for Hydrodynamic Permeability of Divalent Transition Metal Sulphates and Magnesium Sulphate through an inorganic membrane of Aluminium Oxide; Asian Journal of Chemistry ; 29 (9), (2017) 2095.
24. Ravi Sharma, Sonika, and **R.C. Thakur**; Viscometric Studies of Nicotinic Acid in Binary Aqueous Mixtures of D-Lactose ; Oriental Journal of Chemistry; 33 (3), (2017) 1483.
25. Ravi Sharma and **R.C. Thakur** ; Study of Thermodynamic and Acoustic Behaviour of Nicotinic Acid in Binary Aqueous Mixtures Of D-Lactose; Recent Advances in Fundamental and Applied Sciences AIP Conf. Proc. 1860, 020054-1–020054-10; doi: 10.1063/1.4990353 Published by AIP Publishing. 978-0-7354-1534-8/\$30.00.
26. **Ramesh C. Thakur** and Ravi Sharma; Viscometric Studies of Divalent Transition Metal Sulphates in Mixtures of Water–Diethylene Glycol at 298.15–318.15 K; Russian Journal of Physical Chemistry A, 91(9), (2017) 1703.
27. Ravi Sharma, **R. C. Thakur**, Balwinder Sani , and Harsh Kumar; Properties of L-Ascorbic Acid in Water and Binary Aqueous Mixtures of D-Glucose and D-Fructose at Different Temperatures; Russian Journal of Physical Chemistry A, 91(12), (2017) 2389.
28. Ravi Sharma, **R. C. Thakur** & Harsh Kumar; Study of viscometric properties of L-ascorbic acid in binary aqueous mixtures of D-glucose and D-fructose; Physics and Chemistry of Liquids; 2018; <https://doi.org/10.1080/00319104.2018.1432049>.
29. Ravi Sharma and **R. C. Thakur**; Molecular Interactions of Pyridoxine Hydrochloride in Aqueous Mixtures of D-Glucose, D-Fructose and D-Lactose at Different Temperatures; Russian Journal of Physical Chemistry A, 2018, Vol. 92, No. 13, pp. 76–83 (Accepted).

Conferences and Symposiums:

1. National Symposium on “ Future Challenges in Chemical Sciences (FCCS-05) organized by HPU and sponsored by Board of Research in Nuclear Sciences (BRNS) Department of Atomic Energy (DAE) BARC, Mumbai-85.
2. UGC-Sap National Seminar on : Recent Trends in Synthetic and Polymer Chemistry (RTSPC-1) organized by Department of Chem. HP University Shimla (H.P.)
3. UGC-SAP National Seminar on Recent Trends in Synthetic and Polymer Chemistry (RTSPC- II) organized by Department of Chemistry H P University Shimla (H.P.)
4. National Conference on “Nano- The next Revolution” Sponsored by : UGC, New Delhi, organized by JC DAV College Dasuya, Hoshiarpur, Punjab,
5. Attended the Faculty Development Program on “Thermodynamics” by Prof.M.M. Oberoi IIT Kanpur Organized by Lovely Professional University in collaboration with Punjab Technical University from 28-06-10 to 02-07-10.
6. Attended Faculty Development Programme jointly organized by Punjab Technical University and Lovely Professional University on “Thermodynamics” from 28th June-02nd July,2010.
7. Participated in Faculty Development Programme on “Chemistry of Atoms and Molecules” organized by Lovely Professional University (11th July,2011-15th July,2011).
8. Participated in National Chemical Constellation Cheminar organized by Dr.B.R. Ambedkar National Institute of Technology Jalandhar on 20th -21st August,2011.
9. Participated in Faculty Awareness Programme on “Intellectual Property Rights and Environment Conservation” organized by Punjab State Council for Science and Tech at Lovely Professional University (5th July, 2012).
10. Contributed as a member of Organizing Committee in 3rd Bhartiya Vigyan Sammelan and Expo held at Lovely Professional University , Jointly organized by Vijnana Bharti, Punjab Technical University and Lovely Professional University in Collaboration with Punjab State Council for Science and Technology (11th-14th October,2012.)
11. Participated in faculty Development Programme on “Chemistry Lab Courses: Teaching and Safety Measures” at Lovely Professional University (4th July, 2012-7th July,2012).

12. Convener in the conference “Exploring Basic and Applied Sciences for Next Generation Frontiers (EBAS 2014)” held at Lovely Professional University (14th-15th Nov, 2014).
13. Acted as Resource Person for Faculty Development Programme on Multiple Choice Questions Crafting Skills; Organized by Lovely Professional University (31st May,2015).
14. Acted as Resource Person for Faculty Development Programme on ‘Student Mentoring’ and ‘Effective Course Coordination Meeting’, Organized by Lovely Professional University (31st Dec,2015).
15. Awarded with second Prize in the poster presentation during RAFAS-2016, Lovely Professional University (November; 25th and 26th ,2016).
16. Organizing Secretary of International Conference on “Recent Trends in Fundamental and Applied Sciences (RAFAS-2016) held at Lovely Professional University (November;25th and 26th ,2016).
17. Programme Convener of Faculty development Programme entitled “National Workshop on Scientoonics” organized at Lovely Professional University on 25th November, 2017.
18. Programme Convener of Faculty development Programme entitled “National Workshop on Environmental Sciences” organized at Lovely Professional University on 25th January 10th, 2018.

Research Supervision:

Ph.D.

1. Ms.Sonika (Awarded in 2010): “A study of thermodynamic and transport properties of transition metal chlorides and Magnesium chloride in water and water + organic solvents.”
2. Mr.Ravi Sharma-11412716 (Thesis Submitted- May 2018) : “Study of thermodynamic and transport properties of some water soluble vitamins in binary aqueous mixtures of sugars”.
3. Ms. Pawandeep Kaur-41500077 (Perusing): “Volumetric, acoustic and viscometric properties of some water soluble amino acids and vitamins in water and binary aqueous mixtures of some carbohydrates”.

M.Phil.

1. Anu Rana (2007) "A study on partial molar volumes and viscosity B-Coefficients of alkaline earth metal chlorides in binary aqueous mixtures of sucrose."
2. Parminder Kaur Atwal (2007); "Physico-Chemical investigations of drug disprin in aqueous alcoholic systems."
3. Anju bala (2007) "A study of ultrasonic velocity and viscosity measurements of drug hostacycline in aqueous alcoholic mixtures."
4. Meenakshi (2008) "A study of partial molar volumes of some divalent transition metal sulphates in binary aqueous mixtures of propylene glycol."
5. Manju (2008) "A study of Thermodynamic properties of some divalent transition metal nitrates in binary aqueous mixtures of dimethylsulphoxide."
6. Amanpreet (2011) : A comparative study on Partial molar volumes and viscosity B-coefficients of hydrated and anhydrous alums (Potash Alum and Ammonium Alum) in water and binary aqueous mixtures of methanol.

(Other Research Project & Dissertations):

1. Ruchika; (2008) - "A study of transport properties of some transition metal sulphates (MnSO_4 and CoSO_4) in binary aqueous mixtures of glucose."
2. Gurpreet; (2008) - "A study of partial molar volumes of some divalent metal sulphates (MgSO_4 and MnSO_4) in aqueous mixtures of urea."
3. Rajveer; (2008) - "A study of transport properties of potassium halides (KCl and KBr) in aqueous sucrose solutions."
4. Shailja; (2008) - "A study of partial molar volumes of some organic acids (Ascorbic acid and Tartaric acid) in aqueous mixtures of glucose."
5. Vikram Kalsi;(2009) – " A study of partial molar volumes of alkali metal halides in aqueous mixtures of sucrose."
6. Shranjeet; (2010)- "A study of partial molar volumes of some divalent transition metal sulphates in binary aqueous mixtures of propylene glycol."
7. Sukhdeep; (2010)-" A study of partial molar volumes of some divalent transition metal sulphates in binary aqueous mixtures of propylene glycol."
8. Kanwalpreet; (2010) - " A study of partial molar volumes of some organic acids (citric acid and ascorbic acid) in aqueous mixtures of sucrose."
9. Taruneet -11009240; 2012 – "A comparative thermodynamic study of hydrated and anhydrous salts in water."

10. Ravi Sharma- 11203040; 2104 – “A study of thermodynamic and transport properties of some aluminium salts in water and binary aqueous mixtures of tetrahydrofuran.”
11. Tanya -11203290; 2014 – “A study of B-coefficients of some transition metal nitrates in water and binary aqueous mixtures of dimethylsulphoxide.”
12. Vishali Gill – 11411102; 2016 - “Study of thermodynamic and transport properties of some thiocyanate salts in water and binary aqueous mixtures of acetonitrile.”
13. Ramandeep-11509123; 2017- “Study on transport properties of thiamine hydrochloride in some binary aqueous mixtures of some carbohydrates”
14. Sukhmeen-11604325;2018- “Study of thermodynamic and transport properties of some water soluble vitamins in binary aqueous mixtures of urea”
15. Arshdeep Sharma- 11605533; 2018 –“Acoustic and conductometric properties of some aluminium salts in water and binary aqueous solution of tetrahydrofuran”.

Teaching/Research experience and other academic responsibilities:

1. Head of the Department: Worked as Head of department in Lovely School of Sciences, Lovely Professional University Phagwara (Punjab) w.e.f. August 2011 to May, 2013.
2. Worked as Head/Coordinator of all school of Sciences and Engineering for Chemistry and designed various syllabi and courses of Engineering and Sciences disciplines for three years (August 2008 to August 2011).
3. Asstt. Professor: Worked as Asstt. Professor since 1st August 2008, Department of Chemistry, Lovely Professional University Phagwara (Punjab).
4. Sr.Lecturer : Worked as Sr. Lecturer, w.e.f. 03-09-07 to 31-07-08, Department of Chemistry, Lovely Professional University Phagwara (Punjab).
5. Member of Project Approval Committee in Chemistry department
6. Member of M. Phil. Committee in the Department of Chemistry - Evaluated so far 50 M.Phil. Students being an expert in their viva-voce.
7. Head of panel for recruiting faculty in different departments, Lovely Professional University
8. Member of Doctoral Board of the Lovely Professional University
9. Member of Board of Studies in the department of Chemistry, Lovely Professional University Phagwara (Punjab).
10. Served as overall Scrutiny and collection coordinator at Lovely Professional University

11. Worked as coordinator for various events, conducted by the Lovely Professional University.
12. An important member of planning of University Level such as Curricula, registration, time table, load allocation etc.
13. Expert member of Examination Division in planning and execution of Exams. in Lovely Professional University.
14. Teaching UG, PG and advanced courses at Lovely Professional University Phagwara (Punjab).
15. Chairperson for selection of faculty for Chemistry department since 2009.
16. Member of Board of Studies of the department.
17. Head Examiner/Paper Setter (Annual Exam.) for M.Sc., M.Phil. & Ph.D Chemistry since 2007 in Lovely Professional University Phagwara (Punjab).
18. Examiner for B.Tech. B.Tech.(Hons.) and Bio. Tech.(Hons.) by Lovely Professional University Phagwara (Punjab) since 2007.

Other Organizations

1. Lecturer: January- 2004 to September- 2006, Govt. Sr. Sec.School Talyana Ditt. Bilaspur (H.P.)
2. Appointed as a Additional Head Examiner by CBSE Chandigarh in April 2002 for evaluation of subject Science in the evaluation centre Laureate Public School Shimla (H.P)
3. Appointed as Practical Examiner by HP Board of School Education Dharmshala during years 2004, 2005, 2006 and 2007.
4. Performed duties as Annual Practical Examiner appointed by CBSE Chandigarh in Dayanand Public School Shimla, DPS Jhakari (Shimla) , Army School Sarhan (Shimla) and DAV Public School Shimla (HP) during years 2001,2002 and 2003.

Personal:

D.O.B : 16-06-1973
Permanent address : VPO, Marhana
Tehsil Ghumarwin ,Distt. Bilaspur
Himachal Pradesh, Pin – 174028
Marital Status : Married
Religion : Hindu
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drthakurchem@gmail.com
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