




Faculty Details proforma for DU Web-site

Title	Prof./Dr./Mr./Ms./Mrs.	First Name	Venkatesu	Last Name	Pannuru	Photograph
Designation		Associate Professor				
Address		R.No. 002, Multi-storey building Department of Chemistry, University of Delhi, Delhi 110 007				
Phone No Office						
Residence		F6, Teacher Transit Hostel, Dhaka Land, Bhai Parmanand colony, Mukharjee Nagar Delhi 110 009				
Email		pvenkatesu@chemistry.du.ac.in, pannuruv@yahoo.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Sri Venkateswara University, Tirupati			1995	
PG		Sri Venkateswara University, Tirupati			1989	
UG		Sri Venkateswara University, Tirupati			1987	
Any other qualification						
Career Profile						
June 22, 2015 – till date as a Associate Professor, Department of Chemistry, University of Delhi , Delhi.						
April, 2008 – June 2015: Assistant Professor, Department of Chemistry, University of Delhi , Delhi.						
May 2004 - March 2008: Post-Doctoral Fellow, Department of Chemical Engineering, National Taiwan University of Science & Technology , Taipei, Taiwan .						
May 2003 - April 2004: Post-Doctoral Fellow, Institute of Physics, Academia Sinica, Taipei, Taiwan .						
February 2002 - February 2003: Post-Doctoral Fellow, Department of Human Biological Chemistry, The University of Texas Medical Branch (UTMB), Galveston, TX, USA .						
January 2001 - January 2002: Post-Doctoral Fellow, Department of Chemical Engineering, National Taiwan University of Science & Technology , Taipei, Taiwan .						
October 1997 - April 1998: Post-Doctoral Fellow, Department of Chemistry, Warsaw University of Technology, 00-664 Warsaw, Poland .						
Administrative Assignments						

Currently working as a Member, DRC, Department of Chemistry, University of Delhi, Delhi.

Areas of Interest / Specialization

- ❖ Synthesizing biocompatible and novel amino acid ionic liquids which are absent in the literature.
- ❖ Influence of ionic liquids (ILs) on the structure and stability of biomolecules that delineates to denaturation, refolding, protein aggregation and the formation of folding intermediates.
- ❖ The activity and stability of proteins in the presence of osmolytes and denaturants.
- ❖ The behavior of polymer chain or ionic liquid in coexisting liquid phases.
- ❖ Influence of ionic liquids on the thermo-responsive polymers.
- ❖ Thermodynamic and physicochemical properties of novel class of liquids, ionic liquids and their mixtures.

Subjects Taught

Quantum Chemistry, Biophysical Chemistry and Advanced Chemical Kinetics

Research Guidance

List against each head (If applicable)

- 1. Doctoral Thesis: 6 awarded, 2 submitted and 6 are working**
- 2. Awarded M. Phil**

Publications Profile (in last five years)

Book Chapters: 1. Plasma Technology: A New Remediation for Water Purification with or without Nanoparticles (John Wiley & Sons, Inc) Publication date 2014/6/9; ISBN-13: 978-1118496305
 2. Book title: Ionic Liquids, Chapter title: The Role of Ionic Liquids in Protein Folding/Unfolding Studies, ISBN 978-953-51-2902-8, InTech - open science | open minds publication, Chapter <http://dx.doi.org/10.5772/65924>, Date: 22-2-2016.

Research Publications

Total Citations: 3228; h-Index: 32 (July 2, 2017)

<u>Citation indices</u>	All	Since 2012
<u>Citations</u>	3228	2458
<u>h-index</u>	32	27
<u>i10-index</u>	100	72

<https://scholar.google.co.in/citations?user=5BOH788AAAAJ&hl=en>

Publication Summary: Total Research Papers: 150 (Please see the list of publications for details)

1. *International*: **142**

One Chemical Reviews 2012, 112, 4283-4307 (Impact factor: 46.568)

**Two Perspectives in Phys. Chem. Chem. Phys. 2015, 17, 20466-204484;
 Phys. Chem. Chem. Phys. 2016, 18, 8278-8326**

One Review in RSC Advances 2016, 6, 18763-18777

Two Reviews in Int. J. of Biological Macromolecules 2014, 63, 244-253.

Single author papers: J. Phys. Chem. B, 2006, 110, 7339 -17346

J. Chem. Phys., 2005, 123, 024902-024910 and

Review in Fluid Phase Equilibria, 2010, 298, 173-191).

2. *National* : **08**

3. **No. Research Publications since 2008 (from University of Delhi) : 77**

Few examples

Journal	Numbers
Chemical Reviews	01
Scientific Reports (Nature Publishing Group)	01
ACS Sustainable Chemistry & Engineering	02
J. Phys. Chem C	01
Phys. Chem. Chem. Phys.	13
J. Phys. Chem B	19

Plos One	01
RSC Advances	08
Organic & Biomolecular Chemistry	01
Polymer	01
J. Chem. Phys.	01
International J. of Biological Macromolecule	08
Journal of Colloid & Interface Science	03
New Journal of Chemistry	03
Process Biochemistry	03
J. Chem. Thermodyn.	05

Highlighted on Cover page:

Physical Chemistry Chemical Physics, **2016**, *18*, 8342-8351 (Impact Factor: 4.493)

Physical Chemistry Chemical Physics, **2014**, *16*, 5514-5526 (Impact Factor: 4.493)

Organic & Biomolecular Chemistry **2012**, *10*, 7475-7478 (Impact Factor: 3.696)

List of Publications

Sl. No.	Title of the articles	Authors	Journal & Year, Volume, Page	Impact factor	Ci
1	Overview of the stability of α -chymotrypsin in different solvent media	Awanish Kumar and P.Venkatesu	<i>Chemical Reviews</i> , 2012 , <i>112</i> , 4283-4307	46.568	
2	Coherent Experimental and Simulation Approach to explore the underlying mechanism of Denaturation of Stem Bromelain in Osmolytes	Anjeeta Rani, M. Taha, P. Venkatesu and M. J. Lee	<i>J. Phys. Chem. B</i> 2017 , <i>121</i> , 6456-6470	3.187	
3	Influence of temperature on thermophysical properties of tri(butyl)methylphosphonium methyl sulfate + N-methyl-2-pyrrolidone	R. Umaphathi, R. Deresh and P.Venkatesu	<i>Journal of Molecular Liquids</i> 2017 (accepted)	3.648	
4	An unexplored remarkable PNIPAM-osmolyte interaction study: An integrated experimental and simulation	N. Payal, B. V. Suresh P.Venkatesu and	<i>Journal of Colloid & Interface Science</i> 2017 ,	4.233	

	approach	M. E. Soliman	504, 417-428.			
5	New endeavour to the cooperative behaviour of TMAO and urea towards the globular state of Poly(N-isopropylacrylamide)	N. Payal and P.Venkatesu	<i>RSC Adv.</i> 2017 , 7, 34023-34033.	3.108		
6	Biocompatibility of ionic liquids towards protein stability: A comprehensive overview on the current understanding and their implications	A. Kumar, Meena Bisht and P.Venkatesu	<i>International J. of Biological Macromolecul</i> 2017 , 96, 611-651	3.096		--
7	Comprehensive Computational and Experimental Analysis of Biomaterial towards the Behavior of Imidazolium-based Ionic Liquids: An Interplay between Hydrophilic and Hydrophobic Interactions	R. Umapathi, B. V. Suresh, P.Venkatesu and M.E. Soliman	<i>J. Phys. Chem. B</i> 2017 , 121, 4909-4922	3.187		
8	Thermo-responsive triblock copolymer phase transition behaviour in imidazolium-based ionic liquids: Role of the effect of alkyl chain length of cations	R. Umapathi and P.Venkatesu	<i>Journal of Colloid & Interface Science</i> 2017 , 485, 183-191	4.233		2
9	The influence of various alkylammonium-based ionic liquids on the hydration state of temperature-responsive polymer	R. Umapathi, T. Y. Mkhize, P.Venkatesu and N. Deenadayalu	<i>Journal of Molecular Liquids</i> 2017 , 225, 186-194.	3.648		-
10	Probing Molecular Interactions between Ammonium-based Ionic Liquids and N,N-Dimethylacetamide: A Combined FT-IR, DLS and DFT Study	P. K. Kumar, A. Rani, L. O. Olasunkanmi, I. Bahadur and P.Venkatesu , Eno E. Ebenso	<i>J. Phys. Chem. B</i> 2016 , 120, 12584-12595)	3.187		-
11	Effect of 1, 4-bis (3-dodecylimidazolium-1-yl) butane bromide on channel form of gramicidin vesicles	R. Patel, M. Parray, U. K. Singh, A. Islam, P.Venkatesu , H. B Bohidar	<i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 508, 150-158	2.760		2
12	Trimethylamine-N-oxide switches from stabilizing nature: A mechanistic outlook through experimental techniques and molecular dynamics simulation	A. Rani, A. Jayaraj, B. Jayaram and P.Venkatesu	<i>Scientific Reports</i> (Nature Publishing Group) 2016 , 6, 23656	5.578		-
13	Deciphering the Interactions of Bromelain with Carbon Nanotubes: Role of Protein as Well as Carboxylated Multiwalled Carbon Nanotubes in a Complexation Mechanism	Indrani Jha and P.Venkatesu	<i>J. Phys. Chem. C</i> 2016 , 120, 15436-15445	4.509		1
14	A Distinct Proof on Interplay between Trehalose and GdnHCl for the	Anjeeta Rani and P. Venkatesu	<i>J. Phys. Chem. B</i> 2016 , 120, 8863-	3.187		-

	Stability of Stem Bromelain		8872			
15	Comprehensive Evaluation of Biomolecular Interactions between Protein and Amino Acid Based-Ionic Liquids: A Comparable Study between [Bmim][Br] and [Bmim][Gly] Ionic Liquids	Meena Bisht, Indrani Jha and P. Venkatesu	<i>Chemistry Select</i> 2016 , <i>1</i> , 3510-3519			1
16	A Study of the molecular interactions between ammonium-based ionic liquids and N,N-dimethylacetamide	P. K. Kumar, V. Govinda, K. Sreenuvasulu, P. Venkatesu , I. Bahadur and E. E. Ebenso	<i>Journal of Molecular Liquids</i> 2016 , <i>223</i> , 687-698.	2.740		-
17	Does 1-Allyl-3-Methylimidazolium Chloride Acts as a Biocompatible Solvent for Stem Bromelain?	Indrani Jha, Meena Bisht and P. Venkatesu	<i>J. Phys. Chem. B</i> 2016 , <i>120</i> , 5625-5633	3.187		1
18	Remarkable refolding effects of partially-immiscible ammonium-based ionic liquids on the urea-induced unfolded lysozyme structure	B. Meena, A. Kumar and P. Venkatesu	<i>Phys. Chem. Chem. Phys.</i> 2016 , <i>18</i> , 12419-12422	4.493		2
19	Unanticipated behaviour of sorbitol towards the stability and activity of stem bromelain: An outlook through biophysical techniques	Anjeeta Rani and P. Venkatesu	<i>Process Biochemistry</i> 2016 , <i>51</i> , 1028-1039	2.627		-
20	Solution Behaviour of Triblock Copolymer in the Presence of Ionic Liquids: A Comparative Study of Two Ionic Liquids Possessing Different Cations with Same Anion	R. Umamathi and P. Venkatesu	<i>ACS Sustainable Chemistry & Engineering</i> , 2016 , <i>4</i> , 2412-2421.	5.267		2
21	Unprecedented Improvement in the Stability of Haemoglobin in the Presence of Promising Green Solvent 1-Allyl-3-methylimidazolium Chloride	J. Indrani and P. Venkatesu	<i>ACS Sustainable Chemistry & Engineering</i> , 2016 , <i>4</i> , 413-421.	5.267		6
22	Molecular interactions between ammonium-based ionic liquids and molecular solvents: current progress and challenges	V. Govinda, P. Venkatesu and I. Bahadur	<i>Phys. Chem. Chem. Phys.</i> (Perspective) 2016 , <i>18</i> , 8278-8326.	4.493		11
23	Structural Insights into the Effect of Cholinium-Based Ionic Liquids on the Critical Micellization Temperature of Aqueous Tri-block Co-polymer	I. Khan, R. Umamathi, M. Neves, J. A. P. Coutinho and P. Venkatesu	<i>Phys. Chem. Chem. Phys.</i> 2016 , <i>18</i> , 8342-8351 Highlighted on Cover page	4.493		5
24	Exploring the structure and stability of amino acids and glycine peptides in biocompatible ionic liquids	A. Kumar, Meena Bisht and P. Venkatesu	<i>RSC Advances (Review)</i> , 2016 , <i>6</i> , 18763-18777.	3.840		3
25	A study of conformational changes of β -lactoglobulin in the vicinity of critical point of binary mixed solvents	R. Umamathi and P. Venkatesu	<i>New Journal of Chemistry</i> 2016 , <i>40</i> , 1747-1755.	3.086		3
26	Endeavour to simplify the frustrated	J. Indrani and	<i>Phys. Chem. Chem.</i> 2016 , <i>18</i> , 8342-8351	4.493		13

	concept of protein-ammonium family ionic liquid interactions	P.Venkatesu	<i>Phys., (Perspective) 2015, 17, 20466-20484</i>			
27	The biological stimuli for governing the phase transition temperature of the “smart” polymer PNIPAM in water	R. Umapathi, P. M. Reddy, A. Kumar, P. Venkatesu, C. J. Chang	<i>Colloids and Surfaces B: Biointerfaces 2015, 135, 588-595</i>	4.152		4
28	Analysis of the driving force that rule the stability of lysozyme in alkylammonium-based ionic liquids	Meena Bisht, Awanish Kumar and P. Venkatesu	<i>International J. of Biological Macromolecule 2015, 81, 1074-1081</i>	3.096.		5
29	Effect of the Alkyl Chain Length of the Cation on the Interactions between Water and Ammonium-Based Ionic Liquids: Experimental and COSMO-RS Studies	V. Govinda, T. Vasantha, I. Khan, P.Venkatesu	<i>Industrial & Engineering Chemistry Research 2015, 54, 9013-9026</i>	2.587		9
30	A green approach to offset the perturbation action of 1-butyl-3-methylimidazolium iodide on α -chymotrypsin	P. M. Reddy, R. Umapathi and P. Venkatesu	<i>Physical Chemistry Chemical Physics, 2015, 17, 184-190.</i>	4.493		8
31	The overriding roles of concentration and Hydrophobic effect on structure and stability of heme protein induced by imidazolium-based ionic liquids	J. Indrani Awanish Kumar and P.Venkatesu	<i>J. Phys. Chem. B 2015, 119, 8357-8368.</i>	3.696.		5
32	Quantifying the co-solvents effects on trypsin from the digestive system of Carp <i>Catla Catla</i> by biophysical techniques and molecular dynamics simulation	P. M. Reddy, M. Taha, Y.V.R. K. Sharma, P. Venkatesu , M. J. Lee	<i>RSC Advances 2015, 5, 43023-43035</i>	3.709		2
33	A comparative study of the Hofmeister series of anions of the ionic salts and ionic liquids on the stability of α -chymotrypsin	Awanish Kumar, Anjeeta Rani and P. Venkatesu	<i>New Journal of Chemistry 2015,39, 938-952</i>	3.159		16
34	Evaluating the transfer free energies of amino acids from water to ammonium-based ionic liquids at 298.15 K	T. Vasantha, A. Kumar, P. Venkatesu and R. S. Rama Devi	<i>Journal of Molecular Liquids 2015, 208, 130-136</i>	2.083		4
35	Insights into the interactions between enzyme and co-solvents: Stability and activity of stem bromelain	Anjeeta Rani and P. Venkatesu	<i>International J. of Biological Macromolecule 2015, 73, 189-201</i>	3.096.		12
36	Excess molar volumes of binary mixtures (an ionic liquid + water): A review	I. Bahadur, T. M. Letcher, S. Singh, P. Venkatesu , D. Ramjugernath	<i>J. Chem. Thermodynamics 2015, 82, 34-46</i>	2.423		31
37	A comparative study of myoglobin	Awanish Kumar	<i>Process</i>	2.524		7

	stability in the presence of Hofmeister anions of ionic liquids and ionic salts	and P.Venkatesu	<i>Biochemistry</i> 2014 , 49, 2158-2169		
38	A Comprehensive Experimental Study to Understand the Hofmeister Series of Anions of Aqueous Imidazolium-based ILs on Glycine Peptides	Varadhi Govinda and P. Venkatesu	<i>Industrial & Engineering Chemistry Research</i> 2014 , 53, 19628-19642	2.235	7
39	Quantitative evaluation of the ability of ionic liquids to offset the cold-induced unfolding of proteins	Awanish Kumar, Anjeeta Rani and P. Venkatesu	<i>Phys. Chem. Chem. Phys. (communication)</i> 2014 , 16, 15806-15810	4.198	11
40	Thermodynamic contribution of amino acids in ionic liquids towards protein Stability <i>(Review)</i>	Awanish Kumar, P.Venkatesu , M. Taha and Ming-Jer Lee	<i>Current Biochemical Engineering</i> , 2014 , 1, 125-140.		7
41	Thermophysical properties for the mixed solvents of N-methyl-2-pyrrolidone with some of the imidazolium-based ionic liquids	T. Kavitha, T. Vasantha, P. Venkatesu , R. S. Rama Devi and T. Hofman	<i>Journal of Molecular Liquids</i> 2014 , 198, 11-20.	2.083	22
42	Thermophysical Properties of Aqueous Solution of Ammonium-Based Ionic Liquids	R. Umapathi, P. Attri and P. Venkatesu	<i>J. Phys. Chem. B</i> 2014 , 118, 5971-5982.	3.696.	12
43	Variation in the structural changes of myoglobin in the presence of several protic ionic liquid	P. Attri, Indrani Jha, E. H. Choi and P.Venkatesu	<i>International J. of Biological Macromolecule</i> 2014 , 69, 114-123.	3.096.	17
44	Unexpected effects of the alteration of structure and stability of myoglobin and hemoglobin in ammonium-based ionic liquids	Indrani Jha, P. Attri and P. Venkatesu	<i>Phys. Chem. Chem. Phys.</i> , 2014 , 16, 5514-5526. Highlighted on Cover page	4.198	42
45	Interactions of ionic liquids with hydration layer of poly(N-isopropylacrylamide): Comprehensive analysis of biophysical techniques results	P. M. Reddy, R. Umapathi and P. Venkatesu	<i>Phys. Chem. Chem. Phys.</i> , 2014 , 16, 10708-10718.	4.198	11
46	Influence of hydroxyl group position and temperature on thermophysical properties of tetraalkylammonium hydroxide ionic liquids with alcohols	P. Attri, K. Y. Baik, P. Venkatesu , In Tae Kim, Eun Ha Choi	<i>Plos One</i> , 2014 , 9, e86530-1-14.	3.530	18

47	Influence of ionic liquids on the critical micellization temperature of a tri-block co-polymer in aqueous media	P. M. Reddy and P. Venkatesu	<i>Journal of Colloid & Interface Science</i> , 2014 , <i>420</i> , 166-173.	3.390		16
48	Does the stability of proteins in ionic liquids obeys the Hofmeister series? (<i>Review</i>)	Awanish Kumar and P. Venkatesu	<i>International J. of Biological Macromolecules</i> 2014 , <i>63</i> , 244-253.	3.096		35
49	The stability of insulin in presence of short alkyl chained imidazolium-based ionic liquids.	Awanish Kumar and P. Venkatesu	<i>RSC Advances</i> 2014 , <i>4</i> , 4487-4499	3.708		21
50	Evaluation of Thermophysical Properties of Ionic Liquids with Polar Solvent: A Comparable Study of Two Families of Ionic Liquids with Various Ions.	V. Govinda, P. Attri, P. Venkatesu and P. Venkateswarlu	<i>Journal of Physical Chemistry B</i> 2013 , <i>117</i> , 12535-12548.	3.696.		29
51	The solubility and stability of amino acids in biocompatible ionic liquids	T. Vasantha, A. Kumar, P. Attri, P. Venkatesu , R.S. Rama Devi	<i>Protein and Peptide Letters</i> , 2014 , <i>21</i> , 15-24.	1.985		20
52	Exploring the thermal stability of α -chymotrypsin in protic ionic liquids	Pankaj Attri and P. Venkatesu	<i>Process Biochemistry</i> , 2013 , <i>48</i> , 462-470.	2.627		31
53	Effect of anion variation on the thermophysical properties of triethylammonium based protic ionic liquids with polar solvent	V. Govinda, P. M. Reddy, P. Attri, P. Venkatesu and P. Venkateswarlu	<i>Thermochimica Acta</i> 2013 , <i>556</i> , 75-88.	2.020		35
54	Interruption of hydration state of thermoresponsive polymer, poly(N-isopropylacrylamide) in guanidinium hydrochloride	P. M. Reddy, M. Taha, A. Kumar, P. Venkatesu and M. J. Lee	<i>Polymer</i> , 2013 , <i>54</i> , 791-797.	3.766		9
55	Prevention of Insulin Self-aggregation by Protic Ionic Liquid	A. Kumar and P. Venkatesu	<i>RSC Advances (Communication)</i> 2013 , <i>3</i> , 362-367.	3.708		32
56	Influence of anion on thermophysical properties of ionic liquids with polar solvent	V. Govinda, P. M. Reddy, Pankaj Attri, P. Venkatesu , P. Venkateswarlu	<i>J. Chem. Thermodyn.</i> 2013 , <i>58</i> , 269-278.	2.794.		20
57	Structural Basis for the Enhanced Stability of Protein Model Compounds and Peptide Backbone Unit in Ammonium Ionic Liquids	T. Vasantha, P. Attri, P. Venkatesu , R. S. Rama Devi	<i>J. Physical Chemistry B</i> 2012 , <i>116</i> , 11968-11978.	3.696.		26

58	Water and a protic ionic liquid acted as refolding additives for chemically denatured enzymes	Pankaj Attri, P. Venkatesu and Anil Kumar	<i>Organic & Biomolecular Chemistry (Communication)</i> 2012 , <i>10</i> , 7475-7478, Highlighted on Cover page	3.696.		38
59	Effect of structural variations in cation of ionic liquids on the coexistence curve of isobutyric acid and water	Awanish Kumar, P. M. Reddy and P. Venkatesu	<i>New Journal of Chemistry</i> , 2012 , <i>36</i> , 2266-2279.	2.605.		6
60	Influence of Alkyl Chain Length and Temperature on Thermophysical Properties of Ammonium Based Ionic Liquids and Molecular Solvent	T. Kavitha, P. Attri, P. Venkatesu , R. S. R. Devi and T. Hofman	<i>Journal of Physical Chemistry B</i> 2012 , <i>116</i> , 4561- 4574.	3.696		38
61	Influence of biocompatible ammonium ionic liquids on the solubility of L-alanine and L-valine in water	T. Vasantha, A. Kumar, P. Attri, P. Venkatesu , R. S. Ramadevi	<i>Fluid Phase Equilibria</i> , 2012 , <i>335</i> , 39-45.	2.197.		20
62	Ammonium based ionic liquids act as compatible solvents for glycine peptides	T. Vasantha, Pankaj Attri, P. Venkatesu , R. S. Ramadevi	<i>J. Chem. Thermodynamics</i> 2013 , <i>56</i> , 21-31.	2.794		20
63	Influence of temperature on thermophysical properties of ammonium ionic liquids with N-methyl-2-pyrrolidone	T. Kavitha, Pankaj Attri, P. Venkatesu , R. S. R. Devi and T. Hofman	<i>Thermochimica Acta</i> 2012 , <i>545</i> , 131-140.	2.020		20
64	Destruction of hydrogen bonds of poly(N-isopropylacrylamide) aqueous solution by trimethylamine N-oxide	P. M. Reddy, M. Taha, A. Kumar, P. Venkatesu and M. J. Lee	<i>J. Chem. Phys.</i> 2012 , <i>136</i> , 234904-234910.	3.333		24
65	Polyacrylic acid polymer modulates the UCST - type phase behavior of ionic liquid and water	Awanish Kumar, P. M. Reddy and P. Venkatesu	<i>RSC Advances</i> 2012 , <i>2</i> , 6939-6947.	3.708		7
66	Influence of protic ionic liquids on the structure and stability of Succinylated Con A	Pankaj Attri and P. Venkatesu	<i>International J. of Biological Macromolecules</i> , 2012 , <i>51</i> , 119-128.	2.608		18
67	TMAO and sorbitol attenuate the deleterious action of atmospheric-pressure non-thermal plasma jet on α -Chymotrypsin	P. Attri, P. Venkatesu , N. Kaushik and E. H. Choi	<i>RSC Advances</i> 2012 , <i>2</i> , 7146-7155.	3.708		15
68	Temperature dependence	T. Kavitha, P. Attri,	<i>J. Chem.</i>	2.794		20

	measurements and molecular interactions for ammonium ionic liquid with N-methyl-2-pyrrolidone	P. Venkatesu , R. S. Rama Devi and T. Hofman	<i>Thermodyn.</i> 2012 , 54, 223-237.		
69	Ammonium ionic liquids as convenient co-solvents for the structure and stability of succinylated con A	Pankaj Attri and P. Venkatesu	<i>J. Chem. Thermodyn.</i> 2012 , 52, 78-88	2.794	19
70	Effects of atmospheric-pressure non-thermal plasma jets on enzyme solutions	P. Attri, P. Venkatesu , N. Kaushik, Y. G. Han, C. J. Nam, E. H. Choi, K.S. Kim	<i>J. Korean Phys. Society</i> , 2012 , 60, 956-964.	1.050	8
71	Effect of polyols on the native structure of α -chymotrypsin: A comparable study	Awanish Kumar, Pankaj Attri, P. Venkatesu	<i>Thermochimica Acta</i> 2012 , 536, 55-62.	2.020	26
72	Influence of polymer molecular weight and concentration on coexistence curve of isobutyric acid + water	P. Madhusudhan Reddy and P. Venkatesu	<i>J. Physical Chemistry B</i> 2011 , 115, 12065-12075.	3.603	8
73	Thermodynamic contributions of peptide backbone unit from water to biocompatible ionic liquids at T=298.15 K	T.Vasantha, Pankaj Attri, P. Venkatesu , R. S. Ramadevi	<i>J. Chem. Thermodyn.</i> 2012 , 45, 122-136.	2.794	40
74	Temperature effect on the molecular interactions between two ammonium ionic liquids and dimethylsulfoxide	V. Govinda, Pankaj Attri, P. Venkatesu and P.Venkateswarlu	<i>Journal of Molecular Liquids</i> 2011 , 164, 218-225.	1.649.	22
75	Refolding of urea-induced denaturation of model proteins by trimethylamine N-oxide	Pankaj Attri and P. Venkatesu	<i>Thermochimica Acta</i> 2011 , 526, 143-150.	2.020	8
76	Temperature dependence measurements and structural characterization of trimethyl ammonium ionic liquid with a highly polar solvent	Pankaj Attri, P. Venkatesu and T. Hofman	<i>Journal of Physical Chemistry B</i> 2011 , 115, 10086-10097.	3.603	49
77	A protic ionic liquid attenuates the deleterious actions of urea on α -chymotrypsin	Pankaj Attri, P. Venkatesu , Anil Kumar and Nolen Byrne	<i>Physical Chemistry Chemical Physics (Communication)</i> 2011 , 13, 17023-17026.	4.116	54
78	Densities and ultrasonic studies for binary mixtures of tetrahydrofuran with chlorobenzenes, chloro toluenes and nitrotoluenes at 298.15 K	P.M. Reddy, K. Sivakumar and P. Venkatesu	<i>Fluid Phase Equilibria</i> , 2011 , 310, 74-81.	2.253	14
79	Ionic Liquid Modifies the Lower	P. Madhusudhana	<i>Journal of</i>	3.471	60

	Critical Solution Temperature (LCST) of Poly(<i>N</i> -isopropylacrylamide) in Aqueous Solution	Reddy and P. Venkatesu	<i>Physical Chemistry B</i> , 2011 , 115, 4752-4757.		
80	Thermophysical properties of dimethylsulfoxide with ionic liquids at various temperatures	V. Govinda, Pankaj Attri, P. Venkatesu and P. Venkateswarlu	<i>Fluid Phase Equilibria</i> , 2011 , 304, 35-43.	2.253	52
81	Thermodynamic characterization of the biocompatible ionic liquid effects on protein model compounds and their functional groups	Pankaj Attri and P. Venkatesu	<i>Phys. Chem. Chem. Phys.</i> , 2011 , 13, 6566-6575.	4.116	71
82	Activity and stability of α -chymotrypsin in biocompatible ionic liquids: enzyme refolding by triethyl ammonium acetate	Pankaj Attri, P. Venkatesu and Anil Kumar	<i>Phys. Chem. Chem. Phys.</i> , 2011 , 13, 2788-2796.	4.116	107
83	Thermophysical contribution of <i>N,N</i> -Dimethylformamide in the molecular interactions with other solvents	P. Venkatesu	<i>Fluid Phase Equilibria</i> , 2010 , 298, 173-191. (Review)	2.253.	57
84	Temperature effect on the molecular interactions between ammonium ionic liquids and <i>N,N</i> -dimethylformamide	Pankaj Attri, P. Venkatesu and Anil Kumar	<i>J. Phys. Chem B</i> , 2010 , 114, 13415-13425.	3.471	49
85	Trehalose protects urea-induced unfolding of α -chymotrypsin	Awanish Kumar, Pankaj Attri, P. Venkatesu	<i>International J. of Biological Macromolecules</i> 2010 , 47, 540-545.	2.336	21
86	Measurements and molecular interactions for <i>N,N</i> -dimethyl formamide with ionic liquid mixed solvents	P. Attri, P. M. Reddy, P. Venkatesu , A. Kumar and T. Hofman	<i>J. Phys. Chem. B</i> 2010 , 114, 6126-6133.	3.471	66
87	Density and ultrasonic sound speed measurements for <i>N,N</i> -dimethyl formamide with ionic liquids	Pankaj Attri, Reddy, P. M, P. Venkatesu	<i>Indian Journal of Chemistry</i> 2010 , 49A, 736-742.	0.617	18
88	The influence of osmolytes and denaturants on the structure and enzyme activity of α -chymotrypsin	Pankaj Attri, P. Venkatesu and M. J. Lee	<i>J. Phys. Chem. B</i> 2010 , 114, 1471-1478.	3.417	67
89	Excess molar enthalpies and vapor liquid equilibrium for <i>N</i> -methyl-2-pyrrolidone with ketones	P. G. Kumari, P. Venkatesu , T. Hofman and M. V. Prabhaka Rao	<i>J. Chem. Eng. Data</i> 2010 , 55, 69-73.	1.701	19
90	Counteracting effects of trimethylamine <i>N</i> -oxide and betaine on the interactions of urea with zwitterionic glycine peptides	P. Venkatesu , M. J. Lee and H. M. Li	<i>Thermochimica Acta</i> , 2009 , 491, 20-28.	1.742	10

91	Osmolyte counteracts urea-induced denaturation of α -chymotrypsin	P. Venkatesu , M. J. Lee and H. M. Lin	<i>J. Phys. Chem. B</i> , 2009 , <i>113</i> , 5327- 5338.	3.471		79
92	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K	P. G. Kumari, P. Venkatesu , M.V. P. Rao, M. J. Lee and H. M. Lin	<i>J. Chem. Thermodyn.</i> 2009 , <i>41</i> , 586- 590.	1.906		28
93	Isobaric vapor-liquid equilibrium for N-methyl-2-pyrrolidone with branched alcohols	P. G. Kumari, P. Venkatesu , C. T. Hsieh, M.V. P. Rao, M. J. Lee and H. M. Lin	<i>J. Chem. Thermodyn.</i> 2009 , <i>41</i> , 184- 188.	1.906		9
94	Effect of osmolyte or GdnHCl on volumetric properties of aqueous solutions containing cyclic dipeptides	P. Venkatesu , M. J. Lee and H. M. Lin	<i>Biochemical Engineering Journal</i> , 2008 , <i>38</i> , 326-340.	2.193		12
95	Excess molar volumes and ultrasonic studies of dimethyl sulfoxide with ketones at T = 303.15 K	M. Radhamma, P. Venkatesu , M.V. P. Rao, M. J. Lee and H. M. Lin	<i>J. Chem. Thermodyn.</i> 2008 , <i>40</i> , 492- 497.	1.889		30
96	Isobaric vapor-liquid equilibrium for dimethylsulfoxide with chloroethanes and chloroethenes	M. Radhamma, C.T. Hsieh P. Venkatesu , M.V. P. Rao, M. J. Lee and H. M. Lin	<i>J. Chem. Eng. Data</i> 2008 , <i>53</i> , 374-377.	1.889.		9
97	Excess enthalpies of dimethylsulfoxide with substituted benzenes at 298.15 K	M. Radhamma, W. C. Liao, P. Venkatesu , M.V. P. Rao, M. J. Lee and H. M. Lin	<i>Fluid Phase Equilibria</i> , 2008 , <i>264</i> , 23-28.	1.699		9
98	Excess enthalpies of dimethyl sulfoxide with chloroethanes and chloroethenes at 298.15 K	M. Radhamma, W. C. Liao, P. Venkatesu , M.V. P. Rao, M. J. Lee and H. M. Lin	<i>Thermochimica Acta</i> , 2007 , <i>465</i> , 1-5.	1.562		7
99	Thermodynamic characterization of the osmolyte effect on protein stability and the effect of GdnHCl on protein denatured state	P. Venkatesu , M. J. Lee and H. M. Lin	<i>J. Phys. Chem. B</i> , 2007 , <i>111</i> , 9045- 9056.	4.12		65
100	Trimethylamine N-Oxide	P. Venkatesu ,	<i>Archives of</i>	2.827		51

	counteracts the denaturing effects of urea or GdnHCl on protein denatured state	M. J. Lee and H. M. Lin	<i>Biochemistry and Biophysics</i> , 2007 , 466, 106-115.		
101	Densities of aqueous solutions containing model compounds of amino acids and ionic salts at 298.15 K	P. Venkatesu , M. J. Lee and H. M. Lin	<i>J. Chem. Thermodyn.</i> 2007 , 39, 1206-1216.	1.939	19
102	Excess enthalpies and vapor liquid equilibrium data for the binary mixtures of dimethylsulfoxide with ketones	M.Radhamma, P. Venkatesu , M. V. P. Rao and D.H.L. Prasad	<i>J. Chem. Thermodynamics</i> , 2007 , 39, 1661-1666.	1.939	13
103	Vapor-liquid equilibrium for the binary mixtures of dimethylsulfoxide with substituted benzenes	M. Radhamma, P. Venkatesu , T. Hofman and M.V. P. Rao	<i>Fluid Phase Equilibria</i> , 2007 , 262, 32-36.	1.699	17
104	Excess volumes and excess enthalpies of N-methyl-2-pyrrolidone with branched alcohols	P.Gnanakumari, P. Venkatesu , K. Rama Mohan, M.V. P. Rao, D.H.L. Prasad	<i>Fluid Phase Equilibria</i> , 2007 , 252, 137-142.	1.699	26
105	Transfer free energies of peptide backbone unit from water to aqueous electrolyte solutions at 298.15 K	P. Venkatesu , M. J. Lee and H. M. Lin	<i>Biochemical Engineering Journal</i> , 2006 , 32, 157-170.	1.889	32
106	Polymer modifies the critical region of the coexisting liquid phases	P. Venkatesu	<i>J. Phys. Chem. B</i> , 2006 , 110, 17339-17346.	4.115.	20
107	Excess molar volumes of N,N-dimethylformamide + 2-pentanone + alkan-1-ols mixed solvent systems at 303.15 K	P. Venkatesu , G. C. Sekhar, M. V. P. Rao, and T.Hofman	<i>Thermochimica Acta</i> 2006 , 443, 62-71.	1.742	41
108	Ultrasonic studies of N,N-dimethyl formamide + cyclohexanone + 1-alkanols at 303.15 K	P. Venkatesu , G. C. Sekhar and M. V. P. Rao	<i>Phys. Chem. Liqs.</i> 2006 , 44, 287-291.	0.264	28
109	Effect of polymer chain in coexisting liquid phases by refractive index measurements	P. Venkatesu	<i>J. Chemical Physics</i> 2005 , 123, 024902-024910.	3.138	14
110	Volumetric properties of (N,N-dimethylformamide + aliphatic diethers) at temperatures ranging from (298.15 to 358.15) K	P. Venkatesu , M. J. Lee and H. M. Lin.	<i>J. Chem. Thermodyn.</i> 2005 , 37, 996-1002.	1.876	23
111	Excess molar enthalpies of dimethyl carbonate with o-xylene, m-xylene, p-xylene, Ethylbenzene, or ethylbenzoate at 298.15 K	P.J. Lien, H.M. Lin and M. J. Lee and P. Venkatesu	<i>J. Chem. Eng. Data</i> 2003 , 48, 110-113.	1.876	29

112	Excess molar enthalpies of diethyl carbonate with o-xylene, m-xylene, p-xylene, ethylbenzene, or ethylbenzoate at 298.15 K	P.J. Lien, P. Venkatesu , H.M. Lin and M. J. Lee	<i>Fluid Phase Equilibria</i> 2003 , 206, 105-115.	1.699		21
113	Excess molar enthalpies of 1-octanol with ethylbenzene, ethylbenzoate, acetophenone, anisole or methanol at 298.15 K	P.J. Lien, P. Venkatesu , H.M. Lin and M. J. Lee	<i>J. Chem. Eng. Data</i> 2002 , 47, 768-771.	1.610		32
114	Excess molar volumes and ultrasonic studies of N,N-dimethylacetamide with substituted benzenes at 303.15K	G.C.Sekhar, P. Venkatesu , and M. V. P. Rao	<i>Phys. Chem. Liqs.</i> 2002 , 40, 181-189.	0.264		7
115	Solid-liquid equilibria of n-alkanes in N,N-dimethylacetamide	G.C.Sekhar, P. Venkatesu , M. V. P. Rao and T. Hofman	<i>Fluid Phase Equilibria</i> 2002 , 201, 219-231.	1.478		12
116	Excess molar volumes and speeds of sound of N,N-dimethylacetamide with chloroethanes and chloroethenes at 303.15 K	G.C.Sekhar, P. Venkatesu and M. V. P. Rao	<i>J. Chem. Eng. Data</i> 2001 , 46, 377-380.	1.610		20
117	Excess volumes for binary mixtures of N,N-dimethylformamide and N,N-dimethylacetamide with 2-alkoxy ethanols at 303.15 and 313.15 K	P. Venkatesu , and M. V. P. Rao,	<i>Proc. Nat. Acad. Sci. (India)</i> 2000 , 70 (A), 353-359.	0.21		2
118	Solid-liquid equilibria of n-alkanes in N,N-dimethylformamide	P. Venkatesu , M.V.P.Rao, T.Hofman U.Domanska	<i>J. Chem. Eng. Data</i> 2000 , 45,177-181.	1.610		14
119	Excess molar enthalpies of N,N-dimethylformamide with chloroethanes, and acetates at 298.15 K	P. Venkatesu , R.S.Ramadevi, M.V.P. Rao and D.H.L. Prasad	<i>J. Chem. Eng. Data</i> 2000 , 45, 515-517.	1.610		14
120	Excess molar volumes and speed of sound of ethyl acetate and butyl acetate with 2-alkoxyethanols at 308.15 K	G. C. Sekhar, P. Venkatesu and M.V.P. Rao	<i>J. Chem. Eng. Data</i> 2000 , 45,590-593.	1.610		47
121	Excess molar enthalpies of N,N-dimethylformamide with ketones at 298.15 K	P. Venkatesu , M. V. P. Rao, D.H.L. Prasad and Y.V.L. Ravi Kumar	<i>Thermochimica Acta</i> 1999 , 342, 73- 78.	1.230		31
122	Ultrasonic velocities and isentropic compressibilities of N,N-dimethyl formamide + Cyclopentanone + 1-	P. Venkatesu and M.V.P. Rao.	<i>Indian J. Pure & Appl. Phys.</i> 1999 , 37, 591-594.	0.495		7

	alkanols at 303.15 K				
123	Excess volumes and viscosities of isomeric xylenes with o-nitrotoluene or m-nitrotoluene at 308.15 K	B. B. Goud, P. Venkatesu and M.V.P. Rao	<i>J. Chem. Eng. Data</i> 1999 , 44, 731-734.	1.610	27
124	Solubility of n-alkanes in ethyl tert-butyl ether	U. Domanska and P. Venkatesu	<i>Polish J. Chem.</i> 1998 , 72, 1981-1993.	0.513	6
125	Measurement and correlation of solid-liquid equilibria of 18-crown-6 in alcohols	U. Domanska and P. Venkatesu	<i>J. Chem. Eng. Data</i> 1998 , 43, 919-924	1.610	6
126	Excess volumes of (N,N-dimethylformamide + cyclo penta none +1-alkanols) at 303.15 K	P. Venkatesu and M.V.P. Rao.	<i>J. Chem. Thermodynamics</i> 1998 , 30, 207-213.	1.398	18
127	Excess volumes and ultrasonic studies of triethylamine with substituted benzenes at 308.15 K	P. Venkatesu and M.V.P. Rao.	<i>Phys. Chem. Liq.</i> 1997 , 34, 213-219.	0.915	11
128	Ultrasonic studies of ternary mixtures of N,N-dimethyl formamide + diethyl ketone +1-alkanols	P. Venkatesu , R. S. Ramadevi and M.V.P. Rao.	<i>Acustica-acta acustica</i> 1997 , 83, 157-159.	0.12	4
129	Ultrasonic studies of binary mixtures of N,N-dimethylfor mamide with ketones at 303.15 K	P. Venkatesu and M.V.P. Rao.	<i>Indian J. Pure & Appl. Phys.</i> 1997 , 35, 62-64.	0.495.	11
130	Excess volumes of N,N-dimethylformamide + cyclohexa none +1-alkanols at 303.15 K	P. Venkatesu and M.V.P. Rao.	<i>J. Chem. Eng. Data</i> 1997 , 42, 90-92.	1.610.	17
131	Excess enthalpies of ethyl acetate and butyl acetate with 2-alkoxyethanols at 298.15 K	D.Venkatesul, P. Venkatesu and M.V.P. Rao.	<i>Fluid Phase Equilibria</i> 1997 , 136, 249-255.	1.478	8
132	Viscosities of trichloroethylene or tetrachloroethylene with 2-alkoxyethanols at 303.15 and 313.15 K.	D.Venkatesul, P. Venkatesu and M.V.P. Rao.	<i>J. Chem. Eng. Data</i> 1997 , 42, 365-367.	1.610	21
133	Speed of sound and isentropic compressibilities of trichloroethy lene with branched alcohols at 303.15 K	D. Venkatesulu, P. Venkatesu and M.V.P. Rao.	<i>J. Chem. Eng. Data</i> 1997 , 42, 1145-1146.	1.610	16
134	Excess volumes and viscosities of trichloroethylene with branched alcohols	D.Venkatesulu, P.Venkatesu and M.V.P. Rao	<i>Fluid Phase Equilibria</i> 1997 , 128, 241-248.	1.478	7
135	Excess volumes of N,N-dimethyl formamide with ketones at 303.15 K	P. Venkatesu and M. V. P. Rao	<i>J. Chem. Eng. Data</i> 1996 , 41, 1059-1060.	1.610	24

136	Excess volumes of ternary mixtures of N,N-dimethylformamide + diethylketone+1-alkanols	P. Venkatesu, B. B. Goud and M.V.P. Rao.	<i>Fluid Phase Equilibria</i> 1996 , <i>120</i> , 205-210.	1.478		8
137	Ultrasonic sound velocities and isentropic compressibilities of ternary mixtures of N,N- dimethyl formamide + methyl ethyl ketone +1-alcohols at 303.15 K	P. Venkatesu, R. S. Ramadevi and M.V.P. Rao.	<i>Journal of Pure and Appl. Ultrasonics</i> 1996 , <i>18</i> , 15-18.	0.52		4
138	Isentropic compressibilities of binary mixtures of trichloroethylene or tetrachloroethylene with 2-alkoxyethanols	P. Venkatesu, D Venkatesulu, and M.V.P. Rao.	<i>J. Ind. Council of Chemists</i> 1996 , <i>XII(2)</i> , 30-34.	0.50		24
139	Excess viscosities of organic liquid mixtures of ethyl acetate or butyl acetate with 2-alkoxyethanols	P. Venkatesu, G. C. Sekhar and M.V.P. Rao.	<i>J. Teaching and Research in Chemistry</i> 1996 , <i>3</i> , 50-55.	0.340		6
140	Excess enthalpies of binary mixtures of N,N-dimethylformamide with substituted benzenes	R. S. Ramadevi, P. Venkatesu, M.V.P.Rao. and M.Ramakrishna	<i>Fluid Phase Equilibria</i> 1996 , <i>114</i> , 189-197.	1.478		26
141	Activity coefficients and excess Gibbs free energies of N,N-dimethylformamide with substituted benzenes	R. S. Ramadevi, P. Venkatesu, M.V.P. Rao. and M.Ramakrishna	<i>Thermochimica Acta</i> 1996 , <i>277</i> , <i>133-144</i> .	1.230		25
142	Viscosities of binary liquid mixtures of N,N-dimethyl formamide with substituted benzenes at 303.15 and 313.15 K	R. S. Ramadevi, P. Venkatesu, and M.V.P. Rao.	<i>J. Chem. Eng. Data</i> 1996 , <i>41</i> , <i>479-481</i> .	1.610		47
143	Excess volumes and viscosities of tetrachloroethylene with branched alcohols at 303.15 K	D. Venkatesulu, P. Venkatesu and M.V.P. Rao	<i>J. Chem. Eng. Data</i> 1996 , <i>41</i> , <i>819-820</i> .	1.610		25
144	Ultrasonic studies of tetrachloroethylene with branched alcohols at 303.15 K	D. Venkatesulu, P. Venkatesu and M.V.P. Rao.	<i>Phys. Chem. Liqs.</i> 1996 , <i>32</i> , <i>127-132</i> .	0.53		1
145	Speed of sound and isentropic compressibilities of ternary mixtures of N, N-dimethyl formamide + methyl isobutyl ketone +1-alkanols at 303.15 K	P. Venkatesu, R. S. Ramadevi and M.V.P. Rao	<i>J. Chem. Eng. Data</i> 1995 , <i>40</i> , <i>1134-1136</i> .	1.610		4
146	Excess volumes 1,1,2,2-tetrachloroethane or tetrachloroethene + 2-chlorotoluene, + 3-chlorotoluene, and + 2-chlorotoluene at 303.15 and 313.15 K	B. B. Goud, P. Venkatesu and M.V.P. Rao.	<i>J. Chem. Eng. Data</i> 1995 , <i>40</i> , <i>1211-1213</i> .	1.610		16

147	Excess volumes of ternary mixtures of N,N-dimethylformamide+ methyl iso butyl ketone + 1-alkanols at 303.15 K	P. Venkatesu and M.V.P. Rao.	<i>Fluid Phase Equilibria</i> 1994 , 98, 173-178.	1.478		16
148	Excess volumes of ternary mixtures of N,Ndimethylformamide + methyl ethyl ketone+1-alkanols at 303.15 K	P. Venkatesu , D. Venkatesulu and M.V.P. Rao.	<i>J. Chem. Eng. Data</i> 1994 , 39, 140-142.	1.610.		13
149	Excess volumes of binary mixtures of triethylamine with aromatic hydrocarbons at 308.15 K	P. Venkatesu and M. V. P. Rao	<i>Fluid Phase Equilibria</i> 1994 , 93, 369-376.	1.478		23
150	Ultrasonic studies of binary mixtures of triethylamine with aromatic hydrocarbons at 308.15 K	P. Venkatesu , D. Venkatesulu, M. V. P. Rao	<i>Indian J. Pure & Appl. Phys.</i> 1993 , 31, 818-822.	0.50		18

Conference Organization/ Presentations (in the last three years)

(b) Scientific Visits

International

1. As a Visiting Professor, Durban University of Technology, **Durban, South Africa**, June

12-24, 2016.

2. As a Visiting Professor, Durban University of Technology, **Durban, South Africa**, May 17-23, 2015.
3. As a Visiting Professor, National Taiwan University of Science and Technology, **Taipei, Taiwan**, June 16-July 6, 2013.
4. As a Visiting Professor, Plasma Bioscience Research Center, Kwangwoon University, January 9-16, 2012, **Seoul, South Korea**.
5. University of Kwazulu-Natal (Howard College Campus), School of Engineering, May 21, 2015 (Deliver a Talk).
6. Istituto di Chimica del Riconoscimento Molecolare, CNR, Via Mario Bianco 9, 20131 **Milano, Italy**, May 12, 2014 (Deliver a Talk).
7. Institute of Materials Research and Engineering, **Singapore**, February 25, 2013.
8. School of Chemical and Biological Engineering, Seoul National University, Seoul, South Korea, Jan. 12, 2012 (Deliver a Talk).
9. The University of Alabama in Huntsville, Department of Chemistry, August 6-10, 2006, Huntsville, Alabama, USA (Deliver a Talk).

National

1. Department of Chemistry, Indian Institute of Technology (IIT, Bombay), June 9, 2016.
2. Center for Nano Science and Technology Mahatma Gandhi University, June 24-25, 2009, Kottayam, Kerala, India.
3. SPW Degree & PG College, Department of Chemistry, March 5, 2010, Tirupati, India.
4. Dravidian University, Department of Biotechnology, March 6, 2010, Srinivasavanam, Kuppam, Andhra Pradesh, India.
5. Sri Venkateswara University, Department of Chemistry, March 8, 2010, Tirupati, India.
6. Guru Nanak Dev University, Department of Applied Chemistry, March 15-16, 2010, Amritsar, India.
7. Manipur University, Department of Chemistry, March 29-31, 2010, Imphal, India.

8. Department of Chemistry, Indian Institute of Technology (IIT) Madras, January 4, 2011.
9. Department of Chemistry, Indian Institute of Technology (IIT, Bombay), March 17-18, 2011.
10. Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, July 25, 2012, New Delhi.

16. Papers Contributions to Academic Conferences

International

1. International Conference on Advanced Materials and Technology (ICMAT-16), Sri **Jayachamarajendra College of Engineering, Mysur**, May 26-28, 2016.
2. International Conference on Materials Science & Technology, Department of Chemistry, **University of Delhi, Delhi, India**, March 1-4, 2016 (**Invited Talk**).
3. **6th International Congress on Ionic Liquids (COIL-6), Jeju, South Korea** June 16-20, 2015 (**Oral and Session Chair**).
4. **3rd Indo-Italian Workshop on Electrochemistry for Energy and Health (IIWEc-2015)**, Department of Chemistry, University of Delhi, India, July 3-4, 2015 (**Invited Talk**).
5. **10th International Conference on Protein Stabilisation (ProtStab2014)**, Stresa, Italy, May 7-9, 2014 (**Invited Talk**).
6. **20th ISCB International Conference (ISCBC-2014)**, Department of Chemistry, University of Delhi, India, March 1-4, 2014 (**Invited Talk**).
7. **Thermodynamics 2013**, University of Manchester, **Manchester, U.K.** September 3-6, 2013 (**Oral Presentation**).
8. **1st Annual International Conference on Chemisrty, Chemical Engineering and Chemical Process (CCECP-2013)**, Hotel Fort Canning, **Singapore**, 25-26 February, 2013 (**Invited Talk**).
9. **International workshop on ionic liquids-Alternative being materials for renewable energy and its applications**, January 16-17, 2013, National Chemical Laboratory, Pune, India (**Invited Talk**).
10. **International Conference on Innovations in Chemistry for Sustainable Development**, December 01-03, 2011, Department of Chemistry, Punjab University, Chandigarh, India (**Invited Talk**).
11. **Indo-Brazil-South Africa (IBSA) Workshop on Ionic Liquids**, June 29, 2011, **Department of Chemistry, Durban University of Technology, Durban, South Africa** (**Invited Talk**).

12. **4th Congress on Ionic Liquids (COIL-4)**, June 15-18, 2011, **Hilton Crystal City at Washington, DC, Arlington, USA (Poster presentation)**.
13. **International Conference on Chemistry: Frontiers and Challenges**, March 5-6, 2011, **Aligarh Muslim University, Aligarh, India (Invited Talk)**.
14. **7th Asian Biophysics Association (ABA) Symposium & Annual Meeting of the Indian Biophysical Society (IBS)**, January 30-February 2, 2011, **New Delhi, India (Poster presentation)**.
15. **21st IUPAC International Conference on Chemical Thermodynamics (ICCT-2010)**, July 31-August 6, 2010, **Tsukuba, Japan (Oral Presentation)**.
16. **14th ISCB International conference on Chemical biology for discovery: perspectives and challenges**, January 15-18, 2010, **CDRI, Lucknow, India (Invited Talk)**.
17. **The joint Biophysical Society 52nd Annual Meeting and 16th IUPAB International Biophysics Congress**, February 2-6, 2008, **Long Beach, California, USA (Poster presentation)**.
18. **2007 Taiwan-US soft materials symposium**, January 4-6, 2007, **Taipei, Taiwan (Poster presentation)**.
19. **19th IUPAC International Conference on Chemical Thermodynamics, (ICCT-2006)**, July 29-August 4, 2006, **Boulder, CO, USA (Oral Presentation)**.
20. **18th IUPAC International Conference on Chemical Thermodynamics, (ICCT-2004)** August 17-21, 2004, **Beijing, China (Oral Presentation)**.
21. **Fourth East Asian Biophysical Symposium (EABS)**, November 3-6, 2003, **Taipei, Taiwan (Poster presentation)**.
22. **16th Annual Gibbs Conference on Biothermodynamics**, September 28-October 1, 2002, **Carbondale, Illinois, USA (Poster presentation)**.
23. **International conference and Exhibition on Ultrasonics (ICEU-99)**, December 2-4, 1999, pages 263-266, **New Delhi, India (Oral Presentation)**.

National

1. **National seminar on Advances in polymer science and Technology (Poly-2016)**, March 9-10, 2016, **Jawaharlal Nehru University, New Delhi, India (Invited Talk)**.
2. **1st Andhra Pradesh Science Congress**, January 27-29, 2016, **Sri Venkateswara University, Tirupati, India (oral Talk)**

3. 103rd Indian Science Congress, January, 3-7, 2016, **University of Mysore, Mysur, India (Oral Presentation)**.
4. 52nd Annual Convention of Chemists (The Indian Chemical Society), December 28-30, 2015, **Department of Chemistry, JECRC University, Jaipur, India (Invited Talk)**.
5. National Conference on ionic liquids for clean energy and environment (ILCEE-2015), December 16-17, 2015, National Chemical Laboratory (NCL), Pune, India **(Invited Talk)**.
6. 10th National conference on Thermodynamics of Pharmaceutical, Chemical and Biological Systems, November 20-21, 2015, Department of Chemistry, **Panjab University, Chandigarh, India (Invited Talk)**.
7. Short term Course on Current Opportunities and New Directions in Chemical Sciences and Technology, December 7-13, 2015, Department of Chemistry, **Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India (Expert Lecture)**.
8. 17th National conference on Surfactants, Emulsions & Biocolloids (NATCOSEB XVII), November 04-06, 2015, Pt. Ravishankar Shukla University, Raipur, India **(Invited Talk)**.
9. National symposium on innovative methods in chemistry education (IMCE-2015) and national convention of chemistry teachers (NCCT-2015), October 8-10, 2015, Lucknow University, Lucknow, India **(Invited Talk)**.
10. 51st Annual Convention of Chemists (The Indian Chemical Society), December 09-12, 2014, **Department of Chemistry, Kurukshetra University, Kurukshetra, India (Invited Talk)**.
11. 9th National Conference on Thermodynamics of Chemical, Biological, Environmental and Non-Conventional Energy Systems (TCBNES – 2014), October 17-18, 2014, Department of Chemistry, **Sardar Patel University, Vallabh Vidyanagar, Gujarat, India (Invited Talk)**
12. National Seminar on Recent Trends in Chemistry Research – 2014, Department of Chemistry, July 30, 2014, Govt. Degree College, **Kodur, Kadapa (Dist.), Andhra Pradesh, India (Keynote Address)**.
13. New Dimensions in Chemistry & Chemical Technologies-Applications in Pharma Industry, June 23-25, 2014, Institute of Science & Technology, **Jawaharlal Nehru Technological University, Hyderabad, India (Invited Talk)**.
14. Advances in Chemical and Environmental Sciences (ACES-2014), February 27-28, 2014, **Arya P G College, Panipat, India (Invited Talk)**.
15. National Conference on Recent Trends in Chemical Sciences, January 23-25, 2014, **School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, India (Invited Talk)**.

16. National Conference on Recent Advances in Chemical Processes – (NCRACP-2013), December 29, 2013, **Department of Chemistry, Sri Venkateswara University**, Tirupati, India (**Invited Talk**).
17. 50th Annual Convention of Chemists (The Indian Chemical Society), December 04-07, 2013, **Department of Chemistry, Panjab University**, Chandigarh, India (**Invited Talk**).
18. 8th National Conference on Thermodynamics of Chemical, Biological and Environmental Processes (TCBEP – 2013), November 25-26, 2013, Department of Applied Chemistry, **Babasaheb Bhimrao Ambedkar University, Lucknow**, India (**Invited Talk**).
19. Chemical research society of India (CRSI) Mid-year Symposium-2013, July 12-13, 2013, National Institute of Technology Karnataka, Mangalore, India (**Invited Talk**).
20. 100th Indian Science Congress, January, 3-7, 2013, **University of Calcutta, Kolkata**, India (**Oral Presentation**).
21. 7th National Conference on Thermodynamics of Chemical, Biological and Environmental Processes (TCBEP – 2012), December 10-12, 2012, **Sri Venkateswara University, Tirupati**, India (**Invited Talk**).
22. 49th Annual Convention of Chemists (The Indian Chemical Society), December 12-15, 2012, **National Institute of Technical Teachers Training and Research**, Bhopal, India (**Invited Talk**).
23. 31th Annual Conference of Indian Council of Chemists, December 26-28, 2012, Department of Chemistry, Saurashtra University, **Rajkot, India** (**Invited Talk**).
24. Chemical Constellation Cheminar – 2012 (An International Conference), September 10-12, 2012, **Dr. B R Ambedkar National Institute of Technology, Jalandhar, India** (**Invited Talk**).
25. Third International Multicomponent Polymer Conference (IMPC 2012, March 23-25, 2012, Mahatma Gandhi University, **Kottayam, Kerala, India** (**Invited Talk**).
26. **Annual Meeting of the Indian Biophysical Society (IBS-2012)**, January 19-21, 2012, University of Madras, **Chennai, India** (**Invited Talk**).
27. 30th Annual Conference of Indian Council of Chemists, December 28-30, 2011, Department of Chemistry, Osmania University, **Hyderabad, India** (**Invited Talk**).
28. 48th Annual Convention of Chemists (The Indian Chemical Society), December 3-7, 2011, **University of Allahabad, Allahabad**, India (**Invited Talk**).
29. 6th National Conference on Thermodynamics of Chemical and Biological Systems, November 2-4, 2011, Maharshi Dayananda University, Rohtak, India (**Invited Talk**).

30. National Seminar on Chemistry and Global Perspectives (CGP- 2011), October 24-26, 2011, **Sri Krishnadevaraya University, Anantapur (A.P.)**, India (**Invited Talk**).
31. National Constellation Cheminar, August 20-21, 2011, **Dr. B R Ambedkar National Institute of Technology, Jalandhar, India** (**Invited Talk**).
32. National Conference on Chemistry in Our Lives, March 29, 2011, **Arya P G College, Panipat, India** (**Invited Talk**).
33. 3rd National Conference on Recent Advances in Chemical & Environmental Sciences, February 28-March 1, 2011, **Multani Mal Modi College, Patiala, India** (**Invited Talk**).
34. 98th Indian Science Congress, January, 3-7, 2011, **SRM University, Chennai, India** (**Invited Talk**).
35. 47th Annual Convention of Chemists (The Indian Chemical Society), December 23-27, 2010, **Pt. Ravishankar Shukla University, Raipur, India** (**Invited Talk**).
36. 79th Annual Meeting of the Society of Biological Chemists (India), December 13-15, 2010, **Indian Institute of Science, Bangalore, India** (**Poster presentation**).
37. 5th National Conference on Thermodynamics of Chemical and Biological Systems, November 18-19, 2010, **Manipur University, Manipur, India** (**Invited Talk**).
38. National Seminar on Membranes, Microemulsions and self-assembled systems (MMASA-2010), September 28-30, 2010, SMIT, Majtar, **Sikkim** (**Invited Talk**).
39. UGC-SAP sponsored National symposium on recent trends in chemical sciences, 24-25 February, 2010, **Aligarh Muslim University, Aligarh, India** (**Best Oral Presentation award**).
40. Symposium on recent trends in Biophysics, 13-15 February, 2010, Banaras Hindu University, **Varanasi, India** (**Oral Presentation**).
41. 97th Indian Science Congress, January, 3-7, 2010, **Indian Space Research Organisation & University of Kerala, Thiruvananthapuram, India** (**Oral Presentation**).
42. 4th National Conference on Thermodynamics of Living and Non-Living Systems, December 17-18, 2009, **D. D. U. Gorakhpur University, Gorakhpur, India** (**Invited Talk**).
43. 3rd National Conference on Thermodynamics of Chemical and Biological Systems, October 16-17, 2008, **Nagpur, India** (**Poster presentation**).
44. The acoustical Society of India, Special issue of the Proceedings of **National**

symposium on acoustics(NSA-99), September 23&24, 1999, Sivakasi, India (Oral Presentation).

45. IX National symposium on ultrasonics, December 14-16, 1998, Pondicherry University, Pondicherry, India **(Oral Presentation).**

Research Projects (Major Grants/Research Collaboration)

☑	Completed			
1.	DST High molecular weight polymer behavior in coexisting liquid phases	38.00	2009-2013	
2.	CSIR Protein folding/unfolding by the addition of co-solvents	21.00	2009-2013	
3.	UGC Effect of polymer chain in the critical region of coexisting liquid phases	12.00	2010-2013	
4.	DU/DST – Purse Grant Polymer behavior in coexisting liquid phases	10.00	2010-2013	
5.	CSIR Thermal stability of proteins in the presence of biocompatible ionic liquids	17.00	2013-2016	
6.	DST Influence of co-solvents on thermoresponsive polymer in aqueous media	38.00	2013-2016	
7.	DBT Understanding of activity and stability of proteins in nontoxic ionic liquids	40.00	2013-2016	
☑	Ongoing			
8.	CSIR The attenuating ability of ionic liquids against the thermal, chemical and cold-induced unfolding of proteins	18.00	2017-2020	
9.	DST The phase transition of thermo-responsive polymer in the presence of stimuli	40.00	2017-2020	proteins as
10.	DU/DST – Purse Grant	10.00	2014-2017	

Awards and Distinctions

1. **Professor S. S. Katiyar Endowment Lecture award** 2016-2017 from the **Indian Science Congress Association, India**
2. **Bronze Medal – 2017** received from Chemical research Society of India (**CRSI**), Bangalore
3. **Fellow of Andhra Pradesh Akademi of Sciences**, 2013
4. **Professor Suresh C. Ameta Award** received from **Indian Chemical Society, India, 2013**

5. **Best Research paper presentation award** received from Global Science and Technology Forum (GSTF), 1st Annual International Conference on Chemistry, Chemical Engineering and Chemical Process (CCECP-2013), Singapore, 25-26 February, **2013**
6. **Dr. Arvind Kumar memorial award** received from **Indian Council of Chemists**, India, 2011
7. **Best paper presentation award** by UGC-SAP sponsored National symposium, Muslim University, Aligarh, 2010
8. **Fast Track Young Scientist** project awarded by **DST**, New Delhi, September 2006
9. **Research Associateship** awarded by **CSIR**, New Delhi, India, January 1995
10. **University Merit Fellowship, 1990**

Association With Professional Bodies

Reviewing

Reviewer of J Phys Chem B, J Chem Phys, J Chem Thermodynamics, FEBS, Fluid Phase Equilibria, J Molecular Liquids, protein-peptide letters, PCCP, J. Soln. Chem, International Journal of Biological Macromolecules

Committees and Boards

Committee of Courses for Post-Graduate including Honors Courses

Memberships

- ❖ Member in **American Chemical Society**
- ❖ Member in **Royal Society of Chemistry**
- ❖ Life member in **Indian Chemical Society**
- ❖ Life member and **Executive Member** in **Indian Thermodynamics Society**
- ❖ Life member in **Indian Science Congress**
- ❖ Life member in **Indian Biophysical Society**
- ❖ Life member in **Indian Society for Surface Science and Technology**
- ❖ Life member in **Indian Council of Chemists**
- ❖ Life member in **Ultrasonics Society of India**
- ❖ Life member in **Society of Biological Chemists (INDIA)**

Other Activities

1. Member of the Editorial Board of the **Journal of Molecular Liquids**, **Impact factor: 3.648**
2. Member of the Advisory Board of the **Journal of Chemical Thermodynamics**, **Impact factor: 2.726**
3. Member of the Editorial Board of **International Journal of Chemistry**, **Impact factor: 0.921**

Meetings Organized:

Convener, 9th PAC meeting on Biochemistry, Biophysics, Molecular Biology and Microbiology sponsored by DST, New Delhi, during 11 & 12 April, 2014

Administrative Experience

- ❖ Convener, Physical Chemistry Section 2010-2011(One year)
- ❖ Member, Departmental Research committee 2010-2012 (Two years)
- ❖ Convener, Seminars organizing committee 2013-2015 (Two years)
- ❖ Member, Departmental Research committee 2015-till date
- ❖ Member, Member Faculty of Science 2014-till date
- ❖ Member, Board of Research Studies (Sciences) 2015-till date
- ❖ Deputy Superintendent For M. Sc Chemistry I & III semesters theory examinations 2015