

## **CURRICULUM VITÆ**

**DR. PRAKASH CHANDRA**  
(M.Sc. D.Phil; NET-JRF, GATE QUALIFIED)



### **Assistant Professor**

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Wabe page:

<https://ums.bujhansi.ac.in/BUJhansi/frmViewCampusFacultyProfile.aspx?FacultyID=40>

### **ACADEMIC QUALIFICATIONS:**

**2004:** Graduated from University of Allahabad, Allahabad U.P. with the Physics, Chemistry and Mathematics as main subjects.

**2006:** Post-Graduated from University of Allahabad, Allahabad U.P. with the Chemistry (Specialization: Physical Chemistry )

**2009:** Doctorial degree (D.Phil. – Science) from University of Allahabad, Allahabad U.P., the thesis entitled “**Thermophysical and Thermoacoustical Investigation of Solutions**” under the guidance of **Prof. J. D. Pandey**.

**2010:** Certificate of Proficiency in Foreign Language- GERMAN (Certificate: German) from University of Allahabad, Allahabad U.P.

### **TEACHING EXPERIENCE:**

More than **12** years in Undergraduate, Post-graduate and M.Phil. Classes as per detail:

1. Over 12 Years as Assistant Professor w.e.f. 10. 07. 2009.

- ❖ **Presently Working as a Assistant Professor** in the Department of Chemistry, Bundelkhand University, Jhansi ( **28-11-2011 - Continued**)
- ❖ Teaching Nano-Materials to M.Phil. students at Bundelkhand University, Jhansi, U.P. since 2012 to 2015.
- ❖ Teaching Quantum Chemistry, Physical Chemistry to B.Sc & M.Sc. students at Bundelkhand University, Jhansi, U.P. since 2011.
- ❖ Teaching Electrochemistry to M.Sc. students at University of Allahabad, Allahabad, U.P. (2009-2010)
- 2. WORKED AS LECTURER IN NAND KISHORE DEGREE COLLEGE, affiliated to CSJM UNIVERSITY KANPUR from 9<sup>th</sup> July 2010 to 19 November 2011.**
- 3. WORKED AS GUEST LECTURER IN DEPARTMENT OF CHEMISTRY, UNIVERSITY OF ALLAHABAD, ALLAHABAD FROM JULY 2009 TO MAY 2010.**

**ADMINISTRATIVE EXPERIENCE:**

- Subject Expert in **Union public service commission (UPSC) New Delhi.**
- Worked as Co-coordinator, in Innovation center (Central Instrumental facility) Bundelkhand University Jhansi.
- Member of flying squad committee in 2015, 2016, 2017, 2018, 2019 annual Examination of Bundelkhand University, Jhansi (Assignment only for annual exam.)
- Worked as Centre Superintendent (CS) in Bundelkhand University affiliated college in 2013 annual Examination.
- Worked as ACS in combined entrance test B.Ed 2014, conducted by Bundelkhand University Jhansi.
- Worked as Bundelkhand University B.Ed. Exam 2023 representative.
- Worked as Observer in combined entrance test B.Ed. 2017, conducted by Lucknow University, Lucknow.
- Worked as Observer in combined entrance test B.Ed. 2019 conducted by MJP Rohelkhand University, Bareilly

- Worked as Convenor, in result moderation committee of semester examination 2022 Bundelkhand University Jhansi.

**AWARD AND HONORS:**

- ❖ I2OR National Research Excellence Award **2022-23**, The award is bestowed by International Institute of Organized research (I2OR) which is a registered MSME with ministry of MSME, Govt. of India (UPYAM-PB-20-0002405)
- ❖ Out Standing Teacher Award (**05<sup>th</sup> Sep, 2022**) by Research India Foundation (A Govt. of India approved Research Foundation), Bhubaneshar, Odisha, INDIA.
- ❖ Shikshak Gaurav Samman (05<sup>th</sup> Sep, 2022) by Sanskriti Sanskar Sambardhan Samiti Gayatri Parivar Jhansi
- ❖ Certificate of honor(29 June, 2006) as a Resource person at Sri Guru teg Bahadur public School, Mahangapur (Kheri).

**MAJOR RESEARCH PROJECT: One Completed, One Outgoing and 02 Submitted**

- Major research project entitled “Development Of Inorganic Cryogenic Glue (ICG) For Fusion Grade Cryogenic Pump Application” is approved by Department of Atomic energy (DAE), Board of research in nuclear sciences (BRNS) Govt. of India.

**Saction No. 39/14/01/2017-BRNS/34298 [Rs 23.22 Lakh including overhead]**

<b>Dr Prakash Chandra (PI)</b>	Three Year	Development of Adhesives using Silicone, Conducting Polymers and Nanomaterials for elevated Temperature Application	Rs 5000/pm Fellow	<b>SERB-TARE</b>	<b>2022</b>	<b>Granted</b>
<b>Dr Mrigendra Dubey, IIT Indore (Mentor)</b>						
<b>Dr Prakash Chandra</b>	Three Year	Electrochemical and Physicochemical properties of Ionic liquid and Ionic liquid based BUCKYPAPER/PDMS polymer	Rs. 2114000	<b>UP-CST</b>	<b>2023</b>	<b>Submitted</b>

		nanocomposites				
<b>DR D. M. TRIPATHI (PI)</b>	THREE YEAR	IDENTIFICATION, QUANTIFICATION AND DEVELOPMENT OF AN EFFICIENT BIOTREATMENT STRATEGY FOR MICROPLASTICS IN WATER RESOURCES OF BUNDELKHAND REGION, U.P.	RS 4565900	DBT	2022	SUBMITTED
<b>DR PRAKASH CHANDRA (CO-PI)</b>						

**COURSE ATTENDED: ORIENTATION PROGRAM/ REFRESHER COURSE/SHORT TERM COURSE**

**ATTENDED**

- ❖ **DR. PRAKASH CHANDRA of BUNDELKHAND UNIVERSITY JHANSI** has successfully completed One-Week Online National Faculty Development Program dated on **09th June to 15th June 2023** on the theme **MOOCS AND E-CONTENT DEVELOPMENT** organized by Guru Angad Dev Teaching Learning Centre under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) of Ministry of Education, SGTB Khalsa College, University of Delhi. Participant has obtained Grade “A” as required for promotion under CAS of UGC and AICTE
- ❖ **Prakash Chandra**, has successfully completed the Online Training Programme on the theme **Teaching Effectively** organized by **CALEM**, at the UGC HRDC, Aligarh Muslim University, Aligarh from **24 March 2021 to 31 March 2021**.
- ❖ **Prakash Chandra**, has successfully completed 14 days **UGC sponsored Refresher course** organized by **UGC-Human Resource development Centre, University of Allahabad, Allahabad** from **December 10, 2019 to December 23, 2019** and obtained grade “A”.
- ❖ **Prakash Chandra**, has successfully completed 28 days **UGC sponsored orientation programme** organized by **UGC-Human Resource development Centre, University of Allahabad, Allahabad** from **25th July 2018 to 21<sup>st</sup> August 2018** and obtained grade “A”.
- ❖ **Teachers Training Programme in IISC Bangalore:** successfully completed 21 days residential training program equivalent to **UGC refresher course** on “**Degree college teachers training program in Chemistry**” supported and approved by MHRD Govt. of

India under 'Pandit madan Mohan Malviya national mission on teachers and teaching' from 23<sup>rd</sup> November 2016 to 13 December 2016.

#### **WORKSHOP / FACULTY DEVELOPMENT PROGRAMME / ATTENDED**

- Participated 97<sup>th</sup> National workshop on “**Radiochemistry and Applications of Radioisotopes**” conducted jointly by Department of Atomic energy (DAE), Board of research in nuclear sciences, Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) & Department of Chemistry, Bundelkhand University Jhansi during **December 04-09, 2017(48Hrs)**
- Attended 5 days Tier II training course on “**Sustainable Development and management of Ground water resources**” organized by Ministry of Water Resources, River Development & Ganga Rejuvenation, Central Ground Water Board, Northern Region Board, Lucknow under the aegis of Rajiv Gandhi National Ground water Training & research institute , Raipur, held at Department of Geology , Bundelkhand University Jhansi, Uttar Pradesh from 26.12.2016 to 30.12.2016.
- Participated in Brain storming session on an **INTEGRATED STUDY FOR EXPLORATION OF THE NATURAL RESOURCES TO THE ADVANCEMENT AND GROWTH OF UNDER PRIVILEGED REGION OF BUNDELKHAND** under NRDMS scheme of DST, Govt. of India, New Delhi during 10-11<sup>th</sup> March, 2016 organized by Dept. of Geology, Bundelkhand University, Jhansi.
- Participated “**Faculty Training Programme**” on Advance Scientific Rresearch Equipments organized by Innovation centre, Bundelkhand University Jhansi during 3<sup>rd</sup> to 6<sup>th</sup> October 2018.
- **Prakash Chandra**, has actively participated as a teacher co-ordination committee in Indian space Organisation (ISRO), Vikram Sarabhai Exhibition(VSSE), Ahemdabad organized by Bundelkhand University Jhansi from 18<sup>th</sup> to 20<sup>th</sup> October 2019.
- Attended the seven day “**FACULTY DEVELOPMENT PROGRAMME**” organized by Dream Uny Education Pvt. Ltd. Held at Bundelkhand University Jhansi from 1<sup>st</sup> to 7<sup>th</sup> September, 2014.
- Attended UGC sponsored one day workshop on “*Swachh Bharat Swasth Bharat*” organized by Bundelkhand University Jhansi.
- Participated in “**SCIENCE CAMP UNDER INSPIRE INTERNSHIP PROGRAMME**” sponsored by Department of Science and Technology,(**DST**) Govt. of India, New Delhi from January 20-24, 2014 at Bundelkhand University, Jhansi.

- Attended one day training workshop organized by iGroup Infotech India Pvt. Ltd. At Bundelkhand University Jhansi.

#### **FELLOWSHIP:**

- Awarded **CERTIFICATE OF HONOUR** by Shri Guru Teg Bahadur Public School, Mahangapur (Kheri) for on orientation programme as a resource person *a. e. f. 21<sup>st</sup> june to 30<sup>th</sup> june 2006.*
- Qualified **NET** (National Eligibility Test) **CSIR UGC JRF** conducted by Council of Scientific & Industrial Research, India.
- **Fellowship Awarded by UGC** in Department of Chemistry, University of Allahabad from Dec. 2006 to 4 August 2009.
- Awarded **GATE** (Graduate Aptitude Test for Engineering) conducted by Indian Institute of Technology Roorkee.

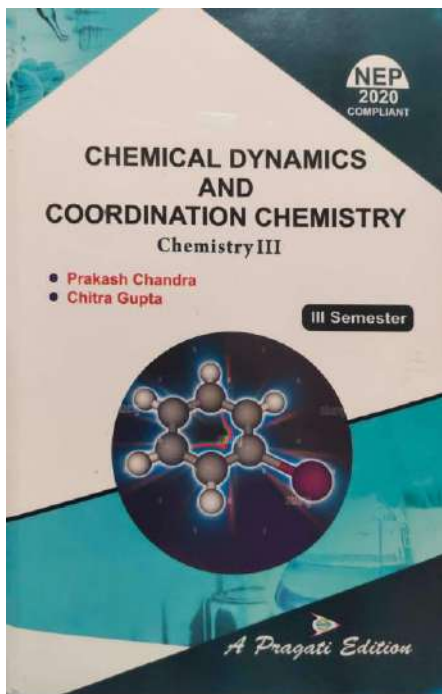
#### **ASSOCIATION WITH SCIENTIFIC SOCIETIES: MEMBER OF THE FOLLOWING SOCIETIES**

- Life Member of “**Ultrasonic society of India**” (Membership No. **LM-364**)
- Life member Academy of Microscope Science & Technology (Membership No. **LM-0430**)
- Life Member of “**Association of Chemistry Teachers**” (ACT). (Membership No. **LM-1722**)
- Life Member of “**Eurasia Research-Scientific and Technical Research Association(STRA)**” (Membership No. **STRA-M19872**)
- Indian Science Congress Association, (Membership No. **A4486-WOV**)
- Vigyan Parishad
- BRSI (**LM-2000**)

#### **EDITORIAL TEAM MEMBER OF DIFFERENT JOURNALS**

- [Journal of Materials and Metallurgical Engineering \(JoMME\)/STM UGC approved journal](#)
- [International Journal of Chemical and Molecular Engineering/Journals Pub](#)

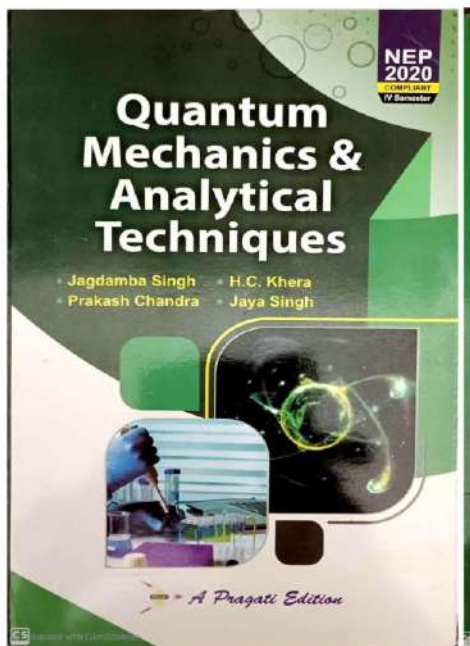
**RECENT BOOKS/ BOOK CHAPTERS PUBLISHED: 02**



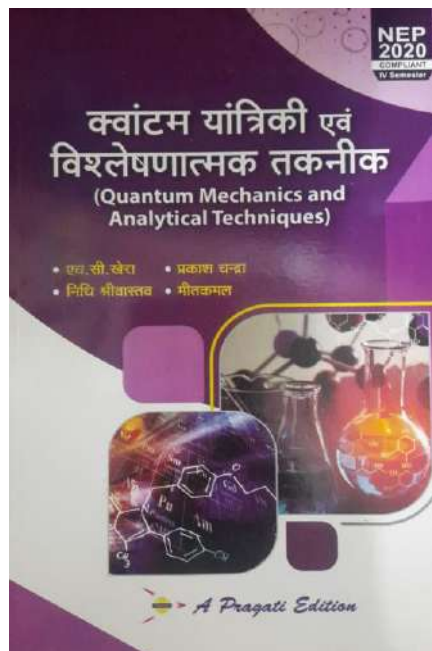
**Title:** Chemical Dynamics & Coordination Chemistry  
**ISBN No.** 978-93-5531-604-2  
**Publisher:** Pragati Prakashan



**Title:** Polymer Composite  
**ISBN No.** 978-81-949641-0-0  
**Publisher:** Krishna Prakashan



**Title:** Quantum Mechanics & Analytical Techniques  
**ISBN No.** 935-53-176-3- 8  
**Publisher:** Pragati Prakashan



**Title:** Quantum Mechanics & Analytical Techniques  
**ISBN No.** 978-93-5531-787-2  
**Publisher:** Pragati Prakashan

## RESEARCH GUIDANCE:

- Currently supervising 4 Doctoral students in Material chemistry.
  1. **Dr Sharon Jyotika Paul (SRF)** Topic: “The Synergistic effects of Combined Carbon Nanotube and Graphene on Conducting Polymer Nanocomposites” (*Awarded*)
  2. **Mr Sarvesh Kumar Singh (SRF)** Topic: Preparation of Adhesive for Wide Temperature range Application using Silicones, Conducting Polymers and Nanomaterials”
  3. **Mr Rajkumar (JRF)**
  4. **Mr Chandrabhan**
  5. **Mr Manvendra Singh Rajpoot (CSIR SRF)**
- **Dr Sangeeta Kandpal**, working as project SRF under my supervision, project entitled “Development of Inorganic Cryogenic Glue (ICG) For Fusion Grade Cryogenic Pump Application”



- Supervised 12 students for M.Phil. Dissertation in Chemistry.

**2014-15:** Supervised 2 students for M.Phil. in Chemistry

1. **Irshad Ahmad Shah**
2. **Tariq Ahmad Mir**

**2014:** Currently supervised 5 students for M.Phil. and another one for M.Sc. Project work.

1. **Umar Farooq** (M.Phil.) Topic: *Synthesis and characterization of HCl and H<sub>2</sub>SO<sub>4</sub> doped Polyaniline/MWCNT, Polyaniline/Graphene and polyaniline/MWCNT/Graphene Nanocomposites using CTAB as Cationic surfactant,*
2. **Spna Khare** (M.Phil.) Topic: *Theoretical Prediction of physicochemical properties of two [MPPyr][NTf<sub>2</sub>] ionic liquid and [BMPyr][NTf<sub>2</sub>] with organic solvents.*
3. **Ekta Sonker** (M.Phil.) Topic: *Theoretical estimation of acoustical studies of aqueous imidazolium based ionic liquids in different temperatures.*
4. **Deepak Singh Niranjan** (M.Phil.): *A theoretical study of different thermodynamic properties of mixing for binary and ternary liquid mixtures.*
5. **Kavita Verma** (M.Phil.) Topic: *Estimation of molar refraction and viscosity of ternary liquid mixtures at 288.15 – 333.15K.*
6. **Sharon J. Paul** (M.Sc.) Topic: *"The Synergetic effect of the combined carbon nanotubes and graphene on properties of conducting polymer composites."*

**2013:** Supervised 5 students for M.Phil Project work.

1. **Manzoor Ahmad Wani** (M.Phil.) Topic; *Solubility Parameter estimation for Ionic Liquids from their Viscosity and Surface Tension data.*
2. **Shikha Singh** (M.Phil) Topic: *Thermodynamic and spectroscopic studies of Curcumin in different organic solvents at different temperatures.*
3. **Shikha Singh Sengar** (M.Phil) Topic: *Thermophysical and Refractometric Studies of Piperine in Methanol at different Temperatures and different Concentrations.*
4. **Nrapti Kumar** (M.Phil.) Topic: *Estimation of Thermophysical properties of Amino Acid Based Ionic Liquid.*
5. **Bhavna** (M.Phil.) Topic: *Estimation of Viscosity of regular Quinary and Quaternary sub systems at 293.15 and 298.15K.*

#### **INVITED LECTURE :**

1. Delivered online lecture in the National Webinar on "**Green Chemistry**" dated on 28 Jan, 2021 **Organized by IQAC and Department of Chemistry G.M. Vedak college of Science** Affiliated to University of Mumbai.
2. Prakash Chandra "SUSTAINABLE DEVELOPMENT AND MANAGEMENT OF GROUND WATER RESOURCES" deliver talk on "**hydrochemistry and ground**

***water quality***” held at Department of Geology, Bundelkhand University Jhansi from **26/12/2016 to 30/12/2016**.

3. Prakash Chandra, ***International Conference on Recent Advance in Material and Chemical Science*** deliver lecture on “Synthesis of polyaniline & its composites with MWCNT/Graphene and dielectric properties, **from 2-5 march, 2016**.
  
4. Prakash Chandra, Delivered Lecture on the Topic “Surface Chemistry” on dated 8 June 2020 under PG Chemistry Lecture Series from 5 to 12 June, 2020, jointly organized by Department of Chemistry & EBSB Club, Government Post Graduate College, Chunar Mirzapur.

**CONFERENCE/SEMINAR/SYMPOSIA/LECTURE SERIES ORGANIZED:**

- I took the initiative and organized Govt. of Uttar Pradesh and UGC sponsored national seminar “**Protecting our values through advancement in education and research in humanities & Vedic sciences**” dated **30 to 31<sup>st</sup> March, 2018**.
- I took the initiative and organized UGC sponsored international seminar "**International Conference on Recent Advance in Material and Chemical Science**" **ICRAMCS-2016, 2-5 march**.
  
- I took the initiative and organized UGC sponsored National Lecture Series on “**Chemical Sciences**”, organized by Department of Chemistry, on **24-26 March’2015** from University to organize the event successfully.
  
- I took the initiative and organized one day Lecture on “**Electrochemistry**” on **16 May, 2015** from University to organize the event successfully.
  
- I took the initiative and organized UGC sponsored one day workshop on “**Cyber Forensic and Criminal Investigations**” on **23 March, 2016**.

- Participated as member of organizing committee of **Literary events** Inter-faculty Youth festival 2014-15 “**KALRAV**” on September 22-24,2014 from University to organized the event successfully.

**PROFESSIONAL SKILLS AND EXPERIENCE:**

- I have more than 10 years of teaching experience as in B. Sc., M.Sc. & M.Phil, Physical Chemistry, Nanochemistry courses in the Department of Chemistry, (2009 – till date).
- Gained knowledge in interpreting interactions taking place within multicomponent systems (e.g., system containing ionic liquid, water, and surfactant) by means of steady state fluorescence, UV-vis molecular absorbance studies.
- **Scientific instruments handled are Anton Paar density and sound velocity meter, UV-vis spectrophotometer, Spectrofluorimeter, Conductometer, Mettler Toledo Density meter and Particle Size Analyzer (DLS), XRD, FTIR.**

**MAJOR RESEARCH INTEREST:**

**PRESENTLY I AM WORKING IN THE AREA OF NANOCHEMISTRY, SYNTHESIS & CHARECTERIZATION OF NANO-COMPOSITES & BEHAVIOR OF CONDUCTING POLYMERS.**

I am also working in the area of Solution Chemistry and Computational **Physical Chemistry**. The work involves systematic study of molecular interactions in multicomponent solvent systems by using physicochemical methods. The work focuses on the relationship between physicochemical/thermodynamic and structural properties of nonelectrolyte, electrolyte, biomolecular and ionic liquid solutions.

- **Interaction of ionic liquids.**
- Solutions Chemistry
- Interaction Potential.
- Molecular Interactions.
- Chemical Thermodynamics
- Chemical Ultrasonics.
- Transport Properties.
- Electrolytic Solutions.

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## PUBLICATIONS IN REFERRED ISC INTERNATIONAL/NATIONAL JOURNAL:

**Publications:** Published about **22** papers in various journals of international fame like

- Applied material and interface sciences(ACS)
- J Chem. Eng. Data(ACS)
- J Mol Liquids
- Ind J Chemistry
- Physics and Chemistry of Liquids
- Ind Chem Soc
- Open J Phys Chem etc....
- J of Chemical Thermodynamics
- Fluid PhaseEquilibria
- J Pure & Appl Ultrasonics
- Proc Ind Acad Sci
- Polymer Bulletin

1. **Sharon J. Paul<sup>1</sup> , Sarvesh Kumar Singh<sup>1</sup> , Jaya Tuteja<sup>2</sup> , Arpit Sand<sup>2</sup> , and Prakash Chandra<sup>1\*</sup>** *Probing the Electro-Chemical and Thermal Properties of Polyaniline/MWCNT Nanocomposites; JOTCSA. 2023;(2):493–504.(Scopus indexed)*
2. **Prakash Chandra, Sharon J Paul, Indu Sharma, Indu Elizabeth, Bhaskar Gahtori, Manikandan R. M, S. Seelakumar Titus, Bipin Kumar Gupta;** *A Comparative Study of Compressible and Conductive Vertically Aligned Carbon Nanotube Forest in Different Polymer Matrixes for High-Performance Piezoresistive Force Sensors; ACS Appl. Mater. Interfaces 2020, 12, 14, 16946–16958. (IF 9.229)*
3. **Prakash Chandra, Sharon J Paul & Bipin Kumar Gupta;** *Probing the Electrical and Dielectric Properties of Polyaniline Multi-walled Carbon Nanotubes Nanocomposites Doped in Different Protonic Acids; Polymer Bulletin, 78, pages 5667–5683 (2021) (IF 2.85)*

4. **Prakash Chandra, Rakesh Kumar Singh, Nitya Kumar Soni & Priyanka;** “A Theoretical Study of Internal Pressure of Multicomponent Liquid Mixtures” **International Journal of Innovations in Engineering and Technology (IJIET); Volume 13 Issue 4( July 2019) 137-145.(IF 0.672)**
5. **Prakash Chandra, Jyoti Gupta, Ankita, Neha Chaudhary & Anil Kumar Nain;** *Physicochemical study of intermolecular interactions in 1,4- dioxane+ aromatic hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods;* **J of Chemical Thermodynamics; 108 (2017) 145-161. [IF: 2.290]**
6. **Prakash Chandra, Yogyta Singh, Shikha Singh, and Pratima Jain;** *Densities and Apparent Molar Volumes of Curcumin in Solvents: 1,4-Dioxane, Methanol, Ethanol and Di-methyl Sulfoxide (DMSO) at Various Temperature (293.15 to 318.15 K);* **Chemical Science Journal (2017), Vol.(8),4, 1-5. [IF: 1.4]**
7. **J D Pandey, Prakash Chandra, Tanu Srivastava, D. K. Dwivedi, V Sanguri,** *Estimation of thermodynamic properties of multicomponent systems on the basis of generalized version of hole theory,* **J. Mol. Liq. 157 (2010) 158-161. [IF: 5.065]**
8. **J.D.Pandey, Prakash Chandra, Anil K.Nain and Swarita Gopal,** *Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K,* **J. Chem. Eng. Data, 53, (2008) 2654–2665. [IF: 2.298]**
9. **J. D Pandey, Prakash Chandra, Anil K Nain, and Dinesh Chand,** *Excess internal pressure, excess free volume and excess thermodynamic parameters of some non – aqueous binary mixtures from ultrasonic speed, density and viscosity data,* **Phys Chem Liq, 42(2) (2009) 195-209. [IF: 1.526]**
10. **J.D. Pandey, Prakash Chandra, T Srivastava, N K Soni, A. K. Singh,** *Estimation of surface tension of ternary liquid systems by corresponding-states group-contributions method and Flory theory,* **Fluid Phase Equib. 273, (2008) 44–51. [IF: 2.514]**
11. **Prakash Chandra, Rakesh Kumar Singh, Nitya Kumar Soni & Priyanka;** “A Theoretical Study of Internal Pressure of Multicomponent Liquid Mixtures” **International Journal of Innovations in Engineering and Technology (IJIET); Volume 13 Issue 4( July 2019) 137-145. [IF: 0.672]**
12. **Prakash Chandra, Jyoti Gupta, Ankita, Neha Chaudhary & Anil Kumar Nain;** *Physicochemical study of intermolecular interactions in 1,4- dioxane+ aromatic*

- hydrocarbons binary mixtures at different temperatures by using ultrasonic and viscometric methods; J of Chemical Thermodynamics; 108 (2017) 145-161. [IF: 2.290]*
13. *Prakash Chandra, Yogyta Singh, Shikha Singh, and Pratima Jain; Densities and Apparent Molar Volumes of Curcumin in Solvents: 1,4-Dioxane, Methanol, Ethanol and Di-methyl Sulfoxide (DMSO) at Various Temperature (293.15 to 318.15 K); Chemical Science Journal (2017), Vol.(8),4, 1-5. [IF: 1.4]*
  14. *Prakash Chandra, D. K. Sharma, Anand Trivedi, and Nizamul Haque Ansari, Refractometric Studies on molecular interactions in six binary liquid mixtures, Open J. Phy. Chem., (2014), 4 ,1-5. [IF: 0.79]*
  15. *J.D.Pandey, Prakash Chandra, Rupali Sethi and Vinay Sanguri, Theoretical Formulism of Viscosity of Liquid Mixtures Using Generalized Hole Theory—A New Approach, Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci. (July–Sept 2013) 83(3):225–231 [IF: 0.681]*
  16. *J.D.Pandey, Prakash Chandra, Rupali Sethi and Vinay Sanguri., Estimation of Thermodynamic properties of binary liquid mixtures on the basis of statistical mechanical theories, International Journal of Thermodynamics (IJOT), Vol. 16 (1), (2013)11-20,. [IF: 0.37]*
  17. *Ranjan Dey, Prakash Chandra and J D Pandey, Theoretical estimation of viscosity of oxygenates with quinary hydrocarbon mixtures, International Journal of Innovations in Biological and Chemical Sciences, Vol. 1:(2011)16-21,. [IF: -3.2]*
  18. *Anil K.Nain and Prakash Chandra, Evaluation of Kirkwood-Buff integrals for binary mixtures of dimethylsulphoxide with aromatic hydrocarbons from ultrasonic speed and density data by using inversion procedure and regular solution theory, J. Pure & Appl. Ultrason. 32 (2010) 32-38.*
  19. *J.D.Pandey, Prakash Chandra, T Srivastava, R Prashant & D.K.Diwedi, Estimation of cohesive force, energy of vaporization, heat of vaporization, cohesive energy density, solubility parameter and van der Waals constant of binary liquid mixtures using generalized hole theory, Ind J Chem, 46A, (2007) 1605-1610. [IF: 0.483]*
  20. *J.D. Pandey, Prakash Chandra, R.Dey, N.K. Soni, and M.K. Yadav, Estimation of thermal conductivity of binary liquid mixtures employing new approach, Ind J Chem. Technology, 14, (2007) 638-641. [IF: 0.614]*

21. *J.D. Pandey, Prakash Chandra, V Sanguri, Nidhi Singh, Tanu Srivastava, and Niti Pandey, Theoretical estimation of viscosity of quinary and its constituents quaternary liquid mixtures, J Ind. Chem. Soc., 47,(2008). [IF: 0.145]*
22. *N. K. Soni, Prakash Chandra, Arvind K. Singh, Tanu Srivastava and Niti Pandey, Group-Contribution method for the estimation of surface tension of Binary liquid mixtures, J. Ind. Chem. Soc., 86, ( 2009) 1-4. [IF: 0.145]*
23. *J.D. Pandey, Prakash Chandra, T Srivastava, N K Soni and R K Chaurasia, Volumetric and Compressibility Studies of Liquid Mixtures of Ethanol + Alkanes at 308.15K, Eighteenth National Symposium on Ultrasonics(NSU-XVIII), (2009) 347–352.*
24. *J.D. Pandey, Prakash Chandra, T Srivastava, M K Yadav and R K Chaurasia, Volumetric, Ultrasonic and Refractometric Studies of Binary Mixtures Pyridine + N-Alkanes at 298.15K, Eighteenth National Symposium on Ultrasonics(NSU-XVIII), (2009) 585–591.*
25. *J.D. Pandey, Prakash Chandra, T Srivastava and A K Sharma, Estimation of Surface Tension of Multicomponent Systems from Ultrasonic Velocity, Eighteenth National Symposium on Ultrasonics(NSU-XVIII), (2009) 582–584.*
26. *Vijay Kumar Yadav, Prakash Chandra, Ankit Srivastava, Shahla Khan and Nizamul Haque Ansari, Quantitative variation of metallic elements in water samples by GF-AAS., International journal of Engineering research (IJER), (2015) Vol.3(2) ISSN: 2321-1717.*

#### **WEBINAR ATTENDED**

1. Prakash Chandra, participated International webinar in Graphene for Energy storage applications held 17<sup>th</sup> june 2020, organized by Graphene Flagship funded by the European Union, USA.
2. Prakash Chandra, participated International webinar on COVID-19 A Chemist Eye View organized by Department of Chemistry, St. Xavier’s College Vaikom, on june 13 ,2020.
3. Prakash Chandra, participated 3 days National e-Workshop on “Analytical Instruments” dated 15<sup>th</sup> to 17<sup>th</sup> june 2010, organized by Department of Chemistry, Dr C V Raman University Kota Bilaspur in association with Toshvin Analytical & Shimadzu Analytical, India.
4. Prakash Chandra, participated International webinar on “Health and Environmental protection during Pandemic Outbreak of Covid-19”organized by Department of Chemistry, Faculty of Science, Sam Higginbottom University of Agriculture, Technology and Sciences on June 25-26, 2020.
5. Prakash Chandra, participated Seven day International webinar on “ Survival Stratagies for post Covid -19 Era: prospective from Science, technology & Social Science”jointly organized

by Department of Physics, ECC and Indian Association of Physics Teachers(IAPT), RC-04 on 20<sup>th</sup> to 26 May, 2020.

6. Prakash Chandra, participated International webinar on “ Post Covid-19 world Environment: Prospects and Challenges for sustainable Development” on the occasion of world Environment Day, 2020 dated on 5-7 June, 2020.
7. Prakash Chandra, participated one week online national workshop on “Interdisciplinary Research Methodology, ICT Application & Innovations in Teaching Learning process” organized by St. Francis De Sales College, Nagpur from June 8 to 12, 2020.
8. Prakash Chandra, participated National webinar on “ Scintillating Chemistry” an Initiative of ACT-East Zone jointly organized by Association of Chemistry Teachers(ACT), HBCSE, TIFR Mumbai and Scintillating Chemistry held 28 June,2020.
9. Prakash Chandra, participating e-FDP cum Workshop on “ Waste- to- Bioenergy” jointly organized by Sharda University, NCR, India and Maharashtra Institute of Technology, Aurangabad, India, on 28<sup>th</sup> June to 4<sup>th</sup> July 2020.
10. Prakash Chandra, participated National webinar on “Intellectual Property Rights” an Initiative of ACT-North Zone jointly organized by Association of Chemistry Teachers(ACT), & Department of Chemistry Dayanand Anglo-Vedic (PG) College, Kanpur (U.P.) held 19 December 2020.

#### **ABSTRACTS IN INTERNATIONAL/ NATIONAL CONFERENCE/ SEMINAR/ SYMOSIUM**

1. Paper entitled “Probing the electro-chemical and thermal properties of BUCKYPAPER and its nanocomposites” Invited Speaker in 2<sup>nd</sup> International Conference on **Green & Sustainable Chemistry Conference (GSCC 2022) organized by Manav Rachana University Faridabad , November 17-19-2022**
2. Paper entitled “Epidermal inspired Flexible Sensor with Buckypaper/PDMS Interfaces” presented an Oral Talk in International conference on Polymer for Advanced Technology dated on **23-25Feb,2023** held in International Centre Goa.
3. Paper entitled “Electrochemical study of BUCKYPAPER/PDMS polymer nanocomposites” presented an Oral Talk in National Seminar on Recent Advances in Chemical Sciences dated on **16-17March,2023** Organized by Department of Chemistry, Dr H S G University Sagar.
4. Paper entitled “Electrical and Dielectric Study of Carbon-Nanostructure Derived Polyaniline Nanocomposites” oral presentation in International Conference on Ultrasonics and Material Science for Advanced Technology 2019 (ICUMSAT – 2019) **organized by Department of Physics, Prof Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for study and Research Veer Bahadur Singh Purvanchal University Jaunpur, November 16-18 2019.**
5. Paper entitled “**Thermophysical properties of Curcumin.....at different Temp**” Oral presentation in **Green & Sustainable Chemistry Conference (GSCC 2019) organized by Manav Rachana University Faridabad , November 7-8.2019**
6. Paper entitled “**synthesis and characterisation of polyaniline, graphene and titanium dioxide nanocomposites**” Oral presentation in (**STEAM 2019) Dr B R Ambedkar University Agra, Nov 11-12, 2019.**



7. Participated 1st International conference on Advances in Nanomaterials and devices for Energy and Environment organized by IIITM Gwalior (**ICAN2019**), **January 27--29 , 2019**
8. Paper entitled "**Synthesis and study of dielectric properties of conducting polymer PANI/MWCNT/GN nanocomposites doped with HCl and H<sub>2</sub>SO<sub>4</sub>** , presented in **International Conference on study of nano materials and scientific development in 21<sup>st</sup> century (ICSNSDC)**, **November 3-5 , 2017.**, organized jointly by Jiwaji University Gwalior and Academy of Microscope Science & Technology India.
9. Paper entitled "**Solubility Parameter estimation for Ionic Liquids from their Viscosity and Surface Tension data**" **Accepted** in the 2<sup>nd</sup> International conference on Ionic Liquids in separation and purification Technology ( **ILSEPT**), held at Toronto, Canada, Jun 29 – July 2, 2014.
10. Prakash Chandra, Attended, **48<sup>th</sup> annual convention of Chemist 2011**, Ref. No., ICS/2A/2011/11, held on Department of Chemistry, University of Allahabad, Allahabad in Dec. **2011**.
11. Paper entitled "**Estimation of molecular radii ..... from Ultrasonic Velocity** " in the Nineteenth national symposium on ultrasonics (NSU-XIX) held on National Physical Laboratory, New Delhi, 30-31, Oct. **2012**.
12. Paper entitled "**Theoretical Estimation of Viscosity of Six Component Liquid Mixtures**" in the Ninth Conference of the International Academy of Physical Sciences, (**CONIAPS**), held at **University of Agra, Agra**, 03-05 February, **2007**.
13. Paper entitled "**Volumetric studies of Binary liquid Mixtures**" in the 44<sup>th</sup> annual convention of Chemist 2007 at Mahatma Gandhi Institute of applied Sciences **Jaipur** in Dec. **2007**.
14. Paper entitled "**Estimation of surface tension of ternary liquid systems by corresponding-states group-contribution method and Flory theory**" in the Tenth Conference of the International Academy of Physical Sciences, (CONIAPS), held at Guru Ghasidas University Bilaspur (C.G.), 12-14 January, **2008**.
15. Paper entitled "**Volumetric and Compressibility studies of Liquid Mixtures of ethanol + alkanes at 308.15K**" in the seventeenth national symposium on ultrasonics held on Department of Physics BHU, Varanasi , 4-6 Dec. **2008**.
16. Paper entitled "**Group-Contribution method for the estimation of surface tension of Binary liquid mixtures**" in the seminar on "Frontiers of Chemistry Research at Allahabad University" held on Department of Chemistry, University of Allahabad, January 24-25, **2008**
17. Paper entitled "**Densities, Refractive Indices, and Excess Properties of Binary Mixtures of 1,4-Dioxane with Benzene, Toluene, o-Xylene, m-Xylene, p-Xylene, and Mesitylene at Temperatures from (288.15 to 318.15) K**" in the seminar on "Emerging Trends and Advances in Chemical research held on Department of Chemistry, University of Allahabad, 8-10 Feb. **2009**
18. Paper entitled "**Evaluation of Effective Debye temperature of Pure Liquids at different Temperatures and pressures**" Application of Material Science in Service of Society held on Department of Chemistry CMP Degree College Allahabad, 12-13 September, **2009**

19. Paper entitled “ **Estimation of Surface Tension of Multicomponent Systems from Ultrasonic Velocity** ” in the Eighteenth national symposium on ultrasonics (NSU-XVIII) held on VIT University, Villore, 21-23 Dec. **2009**.
20. Paper entitled “**A Theoretical Study of Internal Pressure of Multicomponent Liquid Mixtures** ” in the Contemporary Research in Material Science and Chemical Biology held on Department of Chemistry, University of Allahabad, January 31-02, **2010**.
21. Paper entitled “**Viscometric studies of binary liquid mixtures at different temperatures**” in the Recent Trends In Chemical Sciences held on Department of Chemistry, A. P. S University, Rewa (M.P.), May 12-13, 2010.