

CURRICULUM VITAE

Dr. Kalpana Shahi

Professor

Department of chemistry

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Education

Ph.D.	Department of chemistry, Patna University Patna	2000
M.Sc.	Department of chemistry, Patna University Patna	1994

Specialization/Area of Interest

Specialization: Physical Chemistry

Solid State Conductance

Physico-Chemical properties of Solutions

Research Experiences

1. Worked as JRF/SRF of CSIR/UGC for completion of Ph.D. degree.
2. Minor Research Project entitled "Thermodynamic and Transport behavior of ternary mixture containing Zinc and Magnesium ions", funded by UGC.
3. Guided Three research scholars for attainment of their Ph.D. degree.
 - 1.Sudhir Kumar Dec. 2012
 - 2.Monika Singh Dec. 2013
 - 3.Pawan Kumar Pandey Oct. 2016

Skills/Awards/Achievements

1. Received **Shanti Ranjan Palit Award (young scientist award)** of Indian chemical society in December 1996.
2. Founder coordinator of "Environmental Auditing Add-on course launched at J.D. women's college, Patna and worked as the course coordinator from August ,2007 to August ,2010.
3. Worked as member of core committee constituted by HE The chancellor, Universities of Bihar in May, 2007 as subject expert.

Conference/Seminar/Webinar/Workshop

RESEARCH PAPER PRESENTED/ PUBLISHED IN CONFERENCES/ PROCEEDINGS-

1. Volumetric studies of copper sulphate in aqueous glycine system at varying temperatures, U.G.C sponsored national seminar organized by Mahanta Madhusudan College, Bikram, Patna on October, 2013.
2. Environmental management and its role in developing Bihar. 5th Bihar Vigyan Congress November ,2012.
3. Fog Harvesting- A new dimension to water harvesting, U.G.C. sponsored national seminar organized by Gaya College, Gaya in September, 2012.

4. Effect of polarization on the electrical conduction behavior of certain alkali halides, national seminar on 'Role of science and technology in Developing Society', 2011.
5. Effect of temperature on the apparent molar volume of magnesium chloride in 0.1 ml glycine solution, National seminar on "Chemistry, our life our future", 2011
6. Some interesting thermodynamic and transport behavior of zinc sulphate-glycine –water system, 4th Bihar vigyan Congress, 2011.
7. Volumetric and viscometric studies of magnesium chloride glycine –aqueous system, national seminar on Emerging trends in Green Chemistry', 2011.
8. Green chemistry for sustainable development, National seminar on 'Emerging trends in Green chemistry',2011.
9. Nano state system synthesized by electrodeposition, 3rd Bihar Science Conference,2010.
10. A comparative study of the conduction mechanism in sandwich compounds, The Bihar Science Conference, 2008.
11. Emerging trends in nanotechnology and its application to the pharmaceutical industry, National Seminar on 'Relevance and dimensions of nanoscience and nanotechnology for the development of Bihar',2008
12. Corncob with EDTA as an absorbent for cadmium (II) in waste water, National Science Congress,2008.
13. Antibacterial and antifungal activity of the leaf extract of Phyllanthus fraternus, National Seminar on "Traditional Medicinal uses of Plants of human Welfare", 2007.
14. Electrical conduction mechanism in ferrocene, 33rd Annual Convention of Chemists, 1996

Journal Publications/Books:

Sr. No.	Name of Journal	Topic	Volume No. Date/ Year
1	Journal Chemtracks	Volumetric and thermodynamic parameters of ZnSO ₄ .7H ₂ O in water and glycine +water mixtures at different temperatures	Vol. 15, No.1, Pg 91-98(2013)
2	Journal Chemtracks	Volumetric and Viscometric studies of MgSO ₄ .7H ₂ O in aqueous solution of glycine and alanine system at different temperatures.	Vol. 15, No.2 Page 541-552 (2013)
3	Rasayan Journal of Chemistry	Synthesis, Spectral and Antifungal studies On oxidative Addition products of palladium(O) complexes ligated by Triazoles	Vol. 6, No.3 Pg 39-43 (Jan-Mar,2013)
4	Asian Journal of Chemistry	Synthesis, characterization and reactivity studies on mixed-ligand organometallic complexes of Rhodium and Iridium with Triphenyl Phosphine and Ethylene thiourea	Vol. 24 , No.10 Pg. 4668-4670 (2012)
5	Journal Chemtracks	Volumetric and Viscometric studies of MgCl ₂ .6H ₂ O and MgSO ₄ .7H ₂ O in aqueous solution of Glycine System at 305k	Vol.14 , No. 2 Pg 521-538 (July- Dec,2012)

6	International Journal of Chemical, Environmental and Pharmaceutical Research	Mixed-Ligand organometallic Derivatives of Rhodium (1) and Iridium (1) with Triphenyl Phospine and 1-Benzoyl-1-tetrazoline-5-thione.	Vol.2 No.2-3 Pg. 67-71(May-December,2011)
7	Journal of Ultra Chemistry	Mixed-Ligand Organometallic Derivatives of Palladium with Triphenyl phosphine and ethylene thiourea.	Vol.7 No.3 Pg. 349-354(2011)
8	Journal of Ultra Chemistry	Organometallic complexes of Ruthenium (II) with 2-mercapto-3-phenyl-quinazolin-4-one.	Vol.7, No.3, 321-326 (2011)
9	Asian Journal of Chemistry	Synthesis and characterization of some oxo and Dioxovanadium (IV and V) Chelates with thioamide ligands.	Vol. 23, No. 10, Pg. 4508-4510 (2011)
10	Asian Journal of Chemistry	Synthesis and characterization of some Oxo-cations complexes with hetero cyclic thiomide ligand	Vol. 23, No. 10, Pg. 4467-4469 (2011)
11	Journal of Ultra Chemistry	Spectral studies on some organo-Rhodium (1) derivative of heterocyclic thioamides.	Vol.7, No.2, Pg. 189-191(2011)
12	Asian journal of chemistry	IR, PMR and ligand field spectral studies on Ti (III), Mn (III), Cr (III), Sb (III) and Bi (III) complexes of Sulphur and Selenium ligands.	Vol.23, No.6, pg. 2739-2741 (2011)
13	Oriental journal chemistry	Mixed ligand complexes of Palladium (II), Ruthenium (II) Rhodium (III) and Iridium (III) with triphenyl phosphine and dibenzoyl sulphide.	Vol.27, No.1, pg. 203-208 (2011)
14	Asian journal of chemistry	A comparative study of the conduction mechanism in potassium halides.	Vol.21,2, pg. 953-963 (2009)
15	Asian journal of chemistry	Electrical conduction mechanism in Ferrocene.	Vol.16, 3-4, pg. 1647-1652 (2004)
16	Journal of Indian chemical society	Solid state conductance in fused ring aromatic compounds	Vol.77, pg. 349-351 (July2000)

NAME OF BOOKS PUBLISHED :

Sr.No.	unit	Name of Book	Publisher	year
1	5-9	Solid state chemistry and quantum chemistry for M.Sc. students	Nalanda open university	June 2009
2	2	Spectroscopy, Industrial chemistry & Environmental chemistry for B.Sc. part-III	Nalanda open university	Jan 2008
3	2 and 5	Physical chemistry for B.sc part - III hons	Nalanda open university	April 2007

PAPER, BOOK, REVIEWS/ CURRICULUM DEVELOPMENT, TEACHING AIDS, INOVATON IN TEACHING METHODS EQUIPEMENTS DEVELOPED etc. -

1. Founder Coordinator of Environmental Auditing Add on Course launched at J.D. Women's College, Patna an worked as the course Coordinator form August,2007 to August,2010. Framing of syllabus and development of the programme was successfully carried out.
2. Member of Core Committee Constituted by HE The Chancellor, Universities of Bihar in May 2007 as subject Expert for implementation of the course content and encouragement of research among faculty.

Professional Membership

1. Indian Chemical society: Life member 1996
2. Indian Science congress Association: Life member 1996
3. Association of chemistry teachers: Life Member 2011

TEACHING EXPERIENCE :

S.No.	Name Of Institution	Post Held	Period
1	M.S.K.B. College, Muzaffarpur, B.R.A. Bihar University	Lecturer	07/11/1996 to 06/02/1997
2	J.D. Womens College, Patna, Patliputra University	Lecturer, Senior Lecturer, Reader	06/02/1997 to 03/08/2010
3	College Of Commerce, Arts & Science Patna, Patliputra University	Reader	03/08/2010 to 07/11/2013
4.	College Of Commerce, Arts & Science Patna, Patliputra University	Professor	07/11/2010 to till date