

Curriculum Vitae

Name & Address : **Dr. Neelu Kambo**
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Sciences, U.P.T.T.I.,
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Date of Birth : 25.12.1974

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ACADEMIC QUALIFICATION

| Examination | Board/Univ. | Year | % of Marks | Division |
|-----------------------------|-----------------------|-------------|---------------------------------|-----------------|
| High School | U.P. Board, Allahabad | 1990 | 76% | 1 st |
| Intermediate | U.P. Board, Allahabad | 1992 | 67% | 1 st |
| B.Sc. | Kanpur Univ., Kanpur | 1995 | 68% | 1 st |
| M.Sc. | C.S.J.M.U., Kanpur | 1997 | 60% | 1 st |
| B.Ed. | C.S.J.M.U., Kanpur | 1998 | 62% (Theory) 79% (Practical) | 1 st |
| Ph.D. (H.B.T.I., Kanpur) | C.S.J.M.U., Kanpur | 2003 | | |

Topic of Ph.D. Thesis: “Kinetics and Mechanism of Ruthenium(III) Catalyzed Oxidation of Reducing Sugars by Chloramine-T”.

A. Teaching Experience

| Post | Organization | Nature of Work | Duration |
|---------------------|----------------------------------|--|-----------------------|
| Assistant Professor | U.P.T.T.I. Kanpur | Teaching and Research | Dec 2007 to till date |
| Guest Faculty | U.I.T. Kanpur(Kanpur University) | Teaching of M.Phil class and Dissertation. | Aug.2006 to Dec 2007 |
| Lecturer | V.S.S.D. College, Kanpur | Teaching | Aug.2004 to Jan 2005 |
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B. Research Experiences

1. **01-02-2005 to 13-12-2007**; Project of Young Scientist Scheme of Department of Science and Technology, New Delhi.

“Biological Reactions Proceeding inside the Molecular Aggregates formed by Surfactants/Hydrotropes: A Kinetic Study.

2. **25.05.2001 to 31.05.2004** : Senior Research Fellow, CSIR, NEW Delhi.

“Platinum Group Metal Complexes of Aminoacids and Reducing Sugars”.

3. **21.09.98 to 24.05.2001**: Institute Research Scholar (For Ph.D.)

Department of Chemistry, H.B. Technological Institute, Kanpur

“Kinetics and Mechanism and Ruthenium(III) Catalyzed Oxidation of Reducing Sugars by Chloramine-T”.

C. Workshop Conducted

1. Workshop on **“Testing of Adulterating Material in Food Items”** held during March 2- 4, 2009 at Uttar Pradesh Textile Technology Institute, Kanpur.

D. Faculty Development Programme Attended

1. Eight day Faculty Development Programme Conducted by Uttar Pradesh Technical University on **“Human Values and Professional Ethics”** held on Feb. 16-23, 2010 at Maharana Pratap Engg. College, Kanpur.
2. Two Weeks Faculty Development Programme Conducted by NITTTR Bhopal on **“Environmental Pollution, Analysis and Treatment”** held on Sep. 17- 28, 2012.
3. Six day Faculty Development Programme Conducted by H B T I, Kanpur on **Curriculum Development and Evaluation methods in Technical Education** held on July 1-6 2013.

E. Seminar Attended / Paper Presented

1. Kinetic & Mechanism of alkaline Chloramine-T Oxidation of D-Mannose, D-Ribose and L(-) Sorbose in Presence of RuCl_3 .

Neelu Kambo and S.K. Upadhyay, National Symposium on Chemical Sciences, June 3 & 4, 2001, CDRI, Lucknow.

2. Influence of Anionic, Cationic and Non-ionic, Surfactants on the Chloramine-T Oxidation of Amino acids. A Kinetic Study.

Neelu Kambo and S.K. Upadhyay, National Seminar on Thermodynamics & Reaction Dynamics, March 23 - 25, 2003, DDU, Gorakhpur University.

3. 6th CRSI National Symposium, Feb. 6-8, 2004, **Indian Institute of Technology, Kanpur.**
4. Inhibition of prrmicellar aggregates on the rate of alkaline hexacyanoferrate(III) oxidation of reducing sugars; A kinetic study.

Neelu Kambo and S.K.Upadhyay, National Conference on Chemical Dynamics, Reaction Mechanism, Department of Chemistry, Acharya Nagarjuna University, Gunture.
5. Meeting of **Young Scientist and Monitoring Workshop** on 21st and 22nd February 2008, **M.L. Sukhadia University, Udaipur.**
6. Faculty Development Programme on “**Recent Strategies for Remediation of Environmental Pollution**” held on April 25 & 26, 2008 at H.B.T.I.,Kanpur.
7. Workshop on Faculty Development Programme on “**Modern Analytical Techniques for Research and Industry**” held on Nov, 10-14, 2008 at H.B.T.I.,Kanpur.
8. Workshop on Faculty Development Programme on “**Quality Control Techniques in Oils and Allied Products**” held on March, 20-25, 2009 at H.B.T.I.,Kanpur.
9. Natoinal Seminar on “**Environmental Science and Engineering**” held on Jan., 23, 2009 at Brahmavart Post Graduate College, Mandhana, Kanpur.
10. National Workshop on “**Green Chemistry Present Scenario in India; Education and Application**” held on Dec.11,2009 at ANDNMM College, Kanpur.
11. National Seminar on “**Science for Shaping the Future of India**” held on Dec.3-4, 2012 Organized by Indian Science Congress Association at DAV College, Kanpur.

Dr. Neelu Kambo

List of Publications

1. Kinetics and Mechanism of the Ruthenium(III) Catalyzed Oxidation of Reducing Sugars by Chloramine-T in alkaline medium.
Neelu Kambo and S.K. Upadhyay, **Transition Metal Chemistry**, **25(2000) 461**.
2. Kinetics and Mechanism of Palladium(II) Catalyzed Oxidation of Isobutanol and Isopropanol by Chloramine-T.
Neelu Kambo and S.K. Upadhyay, **Oxidation Communication**, **24(4) (2001) 547**.
3. Palladium(II) Complexes of Aliphatic amines and their Oxidation by Chloramine-T in Perchloric acid medium.
Neeti Grover, **Neelu Kambo** and S.K. Upadhyay, **International Journal of Chemical Kinetics**, **34 (10) (2002) 603**.
4. Kinetics and Mechanism of Palladium(II) Catalyzed Oxidation of some α -Amino acids by Chloramine-T in Perchloric acid medium.
Neeti Grover, **Neelu Kambo** and S.K. Upadhyay, **Indian Journal of Chemistry**, **41A (2002) 2482**.
5. Kinetics of Ruthenium(III) Catalyzed Chloramine-T Oxidation of D-Ribose, D-Mannose and L(-) Sorbose.
Neelu Kambo and S.K. Upadhyay, **Oxidation Communication**, **26 (4) (2003) 502**.
6. Kinetics and Mechanism of Oxidation of Alanine, Phenylalanine and Valine by N-bromosuccinimide in alkaline medium.
Neelu Kambo, Neeti Grover and S.K. Upadhyay, **Journal of Indian Chemical Society**, **79 (2002) 939**.
7. Kinetics and Mechanism of Platinum(IV) Catalyzed Oxidation of some Hexose's by Chloramine-T.
Neelu Kambo and S.K. Upadhyay, **Indian Journal of Chemistry**, **43A (2004) 1210**.
8. Kinetics and Mechanism of Oxidation of Amino alcohols by N-bromosuccinimide in alkaline medium.
Shalini Pandey, **Neelu Kambo** and S.K. Upadhyay, **Oxidation Communication**, **27 (4) (2004) 821**.
9. Kinetics and Mechanism of Ruthenium(III) Catalyzed Oxidation of some Reducing Sugars by Sodium Metaperiodate in alkaline medium.
Rashmi Tripathi, **Neelu Kambo** and S.K. Upadhyay, **Bulgarian Journal of Chemistry and Industry**, **75 (2004) 18**.
10. Influence of surfactants on Oxidation of Aspartic and Glutamic acids by Chloramine-T in HClO₄ medium.

- Ekta Pandey, Neeti Grover, **Neelu Kambo** and S.K. Upadhyay, **Indian Journal of Chemistry**, **43A (2004) 1186**.
11. Platinum(IV) complexes of Reducing Sugars in an Alkaline medium and their Resistance to Reaction with N-bromosuccinimide. A kinetic study.
Rashmi Tripathi, **Neelu Kambo** and S.K. Upadhyay, **Transition Metal Chemistry**, **29(2004) 861**.
12. Platinum (IV) Inhibition during Hexacyanoferrate (III) Oxidation of Reducing Sugars.
Ekta Pandey, **Neelu Kambo** and S.K. Upadhyay, **Polish Journal of Chemistry**, **79 (2005) 1689**.
13. Inhibition effect of {Cationic surfactant-Ascorbic acid} premicellar aggregation on the rate of Hexacyanoferrate(III) Oxidation of Ascorbic acid. A kinetic study.
Neelu Kambo and S.K. Upadhyay, **J. Dispersion Science and Technology**, **29 (2008) 6**.
14. Positive Cooperativity in non-ionic Micellar Catalyzed Oxidation of Amino alcohols by N- bromosuccinimide: A kinetic study.
Shalini Pandey, **Neelu Kambo** and S.K. Upadhyay, **Oxid. Commun.** **29(2) (2006) 328**.
15. Inhibition of TX-100 on the Rate of Hexacyanoferrate(III) Oxidation of Reducing Sugars, A Kinetic study.
Neelu Kambo and S.K.Upadhyay, **J. Dispersion Science and Technology**,**27(2006)887**.
16. Hydrotropic Enhancement of Rate of the Browning Reaction; A Kinetic Study.
Neelu Kambo, Shalini Pandey and S.K.Upadhyay, **J. Dispersion Science and Technology**. **27(2006) 1113**.
17. Micellar Inhibition in Cysteine-Cystine Transformation by alkaline Hexacyanoferrate(III); A Kinetic Study.
Neelu Kambo and S.K.Upadhyay, **Colloid and Surfaces**, **296 (1-3) (2006) 117**.
18. Interaction of Non-Ionic Surfactants with Cerium(IV) in HClO₄ Medium; A Kinetic Study
Pragya Shukla, **Neelu Kambo** and Santosh K. Upadhyay, **J. Dispersion Science Technology**, **29, (2008) 7**.
19. Non-Ionic Micellar Catalysed Oxidation of Vitamins by Chloramine-T in HClO₄ Medium; A Kinetic Study
Varuna Shukla, **Neelu Kambo** and Santosh K. Upadhyay, **J. Dispersion Science Technology**, **29, (2008) 6**.
20. Anionic Gemini Surfactant viz. Sodium Salt of Bis(1-Dodeceny)Succinamic acid); Synthesis, Surface Properties and Micellar Effect on Oxidation of Reducing Sugars By Hexacyanoferrate(III).
Anoo Gautam, **Neelu Kambo**, S.K. Upadhyay and R.P. Singh, **Colloid and Surfaces A, Physicochem. Eng. Aspects**, **312 (2008) 195**

21. Antagonism in {Conventional anionic - Gemini anionic} mixed Micelles Catalysed Oxidation of D-Fructose by alkaline Chloramine –T, A Kinetic Study.

Neelu Kambo and S.K.Upadhyay, **International J. of Chemical Kinetics**, **41(2) (2008) 123.**

22. Micellar Effect in Redox Reaction; A Review.

S.K.Upadhyay and **Neelu Kambo**, **J.Colloid Surface Science Series, Chapter- Current Focus on Colloid Surfaces**, **344-389 (2009).**

23. Kinetic Behaviour of Ascorbic acid - Fructose Browning Reaction in Alkaline medium.

Neelu Kambo and S.K.Upadhyay, **Indian J. of Chemical Technology**, **33(10) 1393 (2012).**

24. Premicellar/ Micellar Inhibition in alkaline KMnO_4 Oxidation of Reducing Sugars, A Kinetic Study.

R Tripathi, **Neelu Kambo** and S.K.Upadhyay, **J. Dispersion Sci. Technology**, **33(10) 1393 (2012).**