

Curriculum Vitae

Name: **Dr. Vinod Kumar Singh**

Designation: **Professor**

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Academic Qualifications:

1. B.Sc. (Physics, Chemistry, Mathematics) 1987 University of Allahabad
2. M.Sc. (Physics with specialization in Electronics) 1989 University of Allahabad
3. NET/JRF (Physical Sciences) December, 1992 CSIR, New Delhi
4. D.Phil. "Statistical Mechanics and Thermodynamics of Liquids and Liquid Mixtures" 2003 University of Allahabad

Teaching Experience:

1. ISDC, University of Allahabad (1996 – 2001)
2. VSSD College, Kanpur (2001- Continued)

Research Experience: More than 23 Years

Research Guidance: 01 + 01 (submitted)

Some Important Papers in National / International Journals and Conferences:

1. J.D.Pandey, N.K.Soni, **V.K.Singh** & V.Sanguri; "Surface Tension of Ternary Liquid Mixtures", Phys. Chem. Liq., 39, 763-772 (2001)
2. **V.K.Singh**; "Non-linearity Parameter, B/A, of Pure Liquids and Binary Liquid mixtures at Elevated Pressures", Indian J. Phys., 79(6), 611-617 (2005)
3. D.Singh, V.Bhalla, S.Tripathi, **V.K.Singh** & A.K.Gupta; "Ultrasonic Properties of Plutonium Monochalcogenides", Universal Journal of Physics and Application, 2(1), 1-6 (2014)
4. A.Bajpai, V.Dubey, **V.K.Singh**, A.K.Singh, V.N.Mishra, K.K.Pandey & A.K.Pandey; "Quantum Chemical Study on 5-(1,3-Dithian-2-Y L)-2H-1,3-Benzodioxole- A D.F.T. Study", Journal of Chemistry and Chemical Sciences, 6(1), 78-87 (2016)
5. C.Kandpal, A.K.Singh, R.Dey, **V.K.Singh** & D.Singh; "Estimation of Effective Debye Temperature of Multicomponent Liquid Mixtures at 298.15 K", J.Pure Appl. Ultrason., 41, 19-23 (2019)
6. C. Kandpal, J.D.Pandey, R.Dey, A.K.Singh & **V.K.Singh**; "Comparative Study of Viscosity, Diffusion Coefficient, Thermal Conductivity and Gibbs Free Energy for Binary

Liquid Mixtures at Varying Temperatures”, Journal of Molecular Liquids, 333 (2021) 115858

7. S.Devi, **V.K.Singh**, B.K.Tiwari & S.C.Srivastava, “Viscometric Study of Ternary Liquid Mixtures using Ultrasonic Velocity at 298.15K”, European Chemical Bulletin 2023, 12 (Special Issue 5), 1163-1169
8. S.Devi & **V.K.Singh**, “Estimation of Dynamic Viscosities, Excess Molar Volumes and Refractive Indices of Ternary Liquid Mixtures”, Journal of Harbin Engineering University, Vol.44, No.12, 72-84, December 2023
9. Pradeep Tripathi, A.K.Singh & Vinod Kumar Singh, “Assessment of various Heavy Metals in Surface Water of polluted site in middle stretch of River Ganga, Kanpur, UP: A study for Ecological Impact”, Journal of Engineering and Technology Management 76 (2025)

Book: “Mechanics and Wave Motion” ISBN: 978-93-82332-32-9, Published by I.K. International Publishing House Pvt. Ltd., New Delhi and distributed by WILEY India Pvt. Ltd.

Administrative Experience: Proctor (2004 – 2011) & Member of Admission, Examination & Games Committee’s

Membership:

1. Life member of Ultrasonic Society of India (USI) & Indian Association of Physics Teachers (IAPT)
2. Member of Referee panels of Journal of Molecular Liquids, International Journal of Thermophysics & Journal of Pure and Applied Ultrasonics.