2. LIST OF PUBLICATIONS.

Research Publications:

A. PAPERS PUBLISHED IN REFERRED INTERNATIONAL JOURNALS (29)


2. Priyanka V. Tabhane, O.P. Chimankar, C.M. Dudhe & V.A. Tabhane; 2012; Ultrasonic studies on molecular interaction in polyvinyl chloride solution; **Der chemical sinica**, 3(4), 944-947.


6. V. A. Khati, S. B. Kondawar, V. A. Tabhane; 2011; Magnetic and transport properties of PolyaniLine-Ferric/magnetic Iron oxide Composites; **Functional materials, maclmillan advanced research series-2011**.

7. O.P. Chimankar, S. Jajodia, R. Shriwas & V.A. Tabhane; 2011; Nonlinear intermolecular interaction studies in Lysine and Adenosine with water; **Scholars Research Library, Archives of applied science research**, 3(3), 252-256.

8. O.P. Chimankar, R.S. Shriwas & V.A. Tabhane; 2011; Intermolecular interaction studies in some amino acids with aqueous NaOH, **Journal of Chemical and Pharmaceutical Research**, 3(3), 587-596.


10. O.P. Chimankar, R.S. Shriwas & V.A. Tabhane; 2010; Ultrasonic absorption studies in aqueous B-Alanine and L-Glutamic acid (monosodium salt); **Advances in applied science research**, 3(3), 78-85.

11. O.P. Chimankar, R.S. Shriwas & V.A. Tabhane; 2010; Intermolecular hydrogen bonding formation in aqueous D-Mannitol; **Scholars Research Library, Archives of applied science research**, 2(6), 285-289.

12. O.P. Chimankar, R.S. Shriwas, S. Jajodia & V.A. Tabhane; 2010; Ultrasonic absorption and relaxation studies in aqueous arginine and methionine using PEO technique, **Scholars Research Library, Archives of applied science research**, 1(4), 160-167.


17. V.A. Tabhane, S. Agrawal & M. Kalidoss; 2002; Revised free length theory applied to binary liquid mixtures of CCl4+toluene/aniline/o-cresol/m-cresol/p-cresol, **Physics & Chemistry of Liquids (UK)**, 40(1), 39-45.


20. V.A. Tabhane, V. D. Muley, S. Ghosh & S. B. Khasare; 1994; Cluster approach to thermodynamic behavior of liquid mixtures: acrylonitrile in methanol, p-dioxane and cyclohexane; **Acoustica (Germany)**, 80; 193.

21. V.A. Tabhane, S. Ghosh, A. Ghosh & T. N. Dhobe; 1992; Evaluation of Ultrasonic parameters of binary liquid mixtures from excess volume using Flory’s statistical theory; **Acoustica (Germany)**, 76(4); 55.

22. V.A. Tabhane; 1987; Acoustic wave velocities in some mono & disubstituted derivatives of benzene. **Acoustica (Germany)**, 13; 215.

B. PAPERS PUBLISHED IN REFERRED NATIONAL JOURNALS (31)


3. V.A. Tabhane & O.P. Chimankar; 2010; Molecular size and intermolecular binding energy determination of methyl- metha acrylate resins; J. pure & applied Ultrasonics; 30(1), 114-20.

4. V.A. Tabhane, O. P. Chimankar; 2007; Nonlinear acoustical properties in aqueous biomaterials; J. Acoustics Soc of India; 34 (4), 126-129

5. V.A. Tabhane, S.B. Kondawar, P. D. Wankar, K. G. Rewatkar, M. J. Hedau, R.A. Mondal; 2004; Characterization & conducting polymer composites; Proceedings of national seminar on Advance materials; 162-165.


12. V.A. Tabhane, O. P. Chimankar & Sharada Ghosh; 1999; Thermodynamic Properties in some aqueous biological fluid mixture: Indian J. of physics; 73A (2); 140-144.


16. V.A. Tabhane, Sharada Ghosh & Sangeeta Agrawal; 1999; Thermo-acoustical parameters of binary liquid mixtures from volume expansivity data, J. Pure Appl. Ultrasonics, 21(3); 122.


18. V.A. Tabhane, O.P.Chimankar & Sangita Agrawal; 1998; Ultrasonic investigation on aqueous solution of some biological material; J of Acoustical Soc of India, 24(3&4),110-114.


27. **V.A. Tabhane**; 1984; Study of ionic interactions in mixed salts solutions: *Acta Ciencia Indica*, 10(P); 339.

28. **V.A. Tabhane**; 1983; A case study of ground water pollution: *Water Pollution*, 75; 3.

29. **V.A. Tabhane**; 1983; Ultrasonic study of ground water pollution: *Acta Ciencia Indica*, 9(P); 90


**C. PAPERS PUBLISHED IN NATIONAL SYMPOSIA – Abstracted (33)**


3. **V.A.Tabhane** & O.P. Chimankar; 2009; Study of compatibility in polymer blend using thermoacoustic technique; National Symp. On Ultrasonics; VIT University, Vellore (T.N.).

4. **V.A. Tabhane** & O.P. Chimankar; 2009; hydrophobic interaction studies in aqueous sympathomimetic drugs; National Symp. on Acoustics; Hyderabad.


12. **V.A. Tabhane**, O.P.Chimankar, S.G.Goswami and A. Yoel, 1997; Measurement of Ultrasonic absorption in liquids with improved accuracies at 2 and 10 MHz, 8th National Symp on Ultrasonics, Amritsar(6-7Nov).
13. **V.A. Tabhane**, A. D. Rangari & S. A. Ghosh; **1997**: Studies of electrical properties on conducting polymers on substitution of different groups on polyaniline backbone: S S P Symp., **41**c; 113.
17. **V.A. Tabhane** & M. V. Kokate; **1995**: Role of dislocation under the influence of DC electric field in KNbO3 single crystals: Solid State Phys. Symp., **38**c; 360.
20. **V.A. Tabhane** & M. V. Kokate; **1994**: Micro domain nucleation under the influence of steady electric field in KNbO3 single crystals: Solid State Phys. Symp., **37**c; 474.
21. **V.A. Tabhane** & M. V. Kokate; **1993**: Impurity-dislocation interaction under steady electric field in KNbO3 single crystal: Solid State Phys. Symp., **36**c; 308.

**D. Conference Presentation:**

**PAPERS PRESENTED IN INTERNATIONAL CONFERENCES/ SEMINARS (24)**

3. S.A. Arote, **V.A. Tabhane** & H.M.Pathan; **2012**: Electrodeposition of porous Tin Oxide(SnO2) thin films useful for DSSC; 1st international conference on Physics of materials and materials based device fabrication, Shivaji University, Kolhapur (17-19, Jan’2012).
4. R.V.Ingle, **V.A. Tabhane** & H.M.Pathan; 2012; Studies of polyaniline(PANI) and its surface properties; 1st international conference on Physics of materials and materials based device fabrication, Shivaji University, Kolhapur (17-19, Jan’2012).


6. A.A. Meshram, **V.A. Tabhane** & H.M. Pathan; 2011; Cadmium hydroxide nonowire electrodes for glucose detection; 1st International conference on advanced nanomaterials and nanotechnology; IIT, Guwahati (8-10 Dec., 2011).


E. PAPERS PRESENTED IN NATIONAL CONFERENCES/ SEMINARS (44)

1. Priyanka Tabhane, O. P. Chimankar & V. A. Tabhane, 2012; Ultrasonic studies in polycarbonate-polymethamethacrylate blend in chloroform; National conference on materials characterization by ultrasonics; Department of Applied Physics, ASET, New Delhi, (3-4 April, 2012).

2. M.M.Deshmukh, V.A. Tabhane & H.M. Pathan; 2012; Electrical transport properties in ZnO/PANI nanocomposites; Workshop on nanotechnology and intellectual property rights and patents in science and technology from nanotechnology perspectives; Dr. Babasaheb Ambedkar Marathwada Universitat, Aurangabad (16-17 Feb’2012).


7. A.M.Meshram, V.A. Tabhane and H.M. Pathan; 2010; Chemical synthesis of nanocrystalline metal oxides useful for bio-sensor applications; National seminar & poster competition on life science technologies: An emerging frontier; J.B. College of Science, Wardha; (26th Dec’ 2010).


10. V.A. Tabhane & O.P. Chimankar; 2010; Importance of interionic association in peptide for drug production: Thermoacoustic study, National conference on nano materials and nano technology, VNIT, Nagpur (18, 19, 20 Jan’ 2010).


13. V.A. Tabhane & O.P. Chimankar; 2009; Thermo acoustic characterization in milk for detecting chemical additives, National conference on recent trends in basic and applied materials, Dept. of Physics, Institute of Science, Nagpur (10-11Jan).

14. V.A. Tabhane & O.P. Chimankar; 2009; Study of intermolecular association in aqueous D- Monitol using ultrasonic technique; National conference on recent trends in basic and applied materials, Dept. of Physics, Institute of Science, Nagpur (10-11Jan).

15. V.A. Tabhane, O.P. Chimankar; 2009; Estimation of volume expansivity of polysterine with CCl4, C6H6 and CS2 using molecular weight method, National Seminar on material characterization, J. B. Science College, Wardha.

17. **V.A. Tabhane**, A. Yoel & M. V. Kokate; 2009; Optical quality improvement of lead meta niobat single crystal by domain wall nucleation; National Symp on Emerging Techniques in Material Science, S.M.M. Col of Sc, Nagpur (22Aug).


27. **V.A. Tabhane** & S. B. Kondawar, 2006, Studies on chemically synthesized doped Conducting poly(o-anisidine) and copoly(aniline-o-anisidine), National Conference On Recent Advances In Materials Science, dept. of Phys, Dr Ambedkar Col, Nagpur.


31. **V.A. Tabhane** & O. P. Chimankar, 2004; Thermo acoustical behaviors and Intermolecular forces in some biomaterials with aqueous NaOH using Pulse Echo Overlay method, National Seminar on Growth Characterization of solid materials, LIT, Nagpur. (20-21Nov).


42. V.A. Tabhane & O. P. Chimankar, 1998, Ultrasonic Investigations on aqueous solution of biological material (Glycel-Glycel-Glycine) with Dioxane, Nat conf on adv in condensed matter Physics, Pondichery; 50-51.(26-27Feb).


F. Research Papers/ Articles in Books (09)

1. Priyanka Tabhane, O.P. Chimankar, Sangeeta Jajodia and V.A. Tabhane; 2011; Viscometric study of miscibility and interaction on polyvinyl acetate; 2011; Applied Ultrasonics; Shree publishers & distributors, New Delhi-110 002, 260.

2. Priyanka Tabhane, O.P. Chimankar, Sangeeta Jajodia and V.A. Tabhane; 2011; Acoustical studies on molecular interaction in polyvinyl chloride solution;Acoustic waves; Shree publishers & distributors, New Delhi-110 002, 254-261.


7. V.A. Tabhane, A. A. Yoel, M. V. Kokate & O. P. Chimankar; 1999; Role of γ - ray irradiation in controlling ferroelectric behavior of Pbnb2O6 single crystals; Condensed Matter Phys., Narosa Publishing House,265


Dr. Vilas A. Tabhane