

## 2. LIST OF PUBLICATIONS.

### Research Publications:

#### A. PAPERS PUBLISHED IN REFERRED INTERNATIONAL JOURNALS (29)

1. Priyanka V. Tabhane, O.P. Chimankar & V.A. Tabhane; 2012; Study of thermoacoustical properties of polyvinyl acetate in tetrahydrofuron; **Modern Physics Letters B**, 26(27),1250180(7pages).
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.
3. Priyanka V. Tabhane, O.P. Chimankar & V.A. Tabhane; 2012; Phase separation studies in polyvinyl chloride- polyvinyl acetate blend by ultrasonic technique; **J. chem. and pharm. Research**; 4(6), 3051-3056.
4. V.A. Khati, S.B. Kondawar & V.A. Tabhane; 2011; Studies on transport properties of Polyaniline- Ferric oxide polymer composites; **Anal. Bioanal. Electrochem**; 3(6), 614-624.
5. O.P.Chimankar, R.S.Shriwas, S. Jajodia & V.A.Tabhane; 2011; Thermo-acoustic and nonlinear properties of milk in NaHCO<sub>3</sub> using volume expansion coefficient; 2011, **Advances in Applied Science Research**, 2(3), 500-508.
6. V. A. Khati, S. B. Kondawar, V. A. Tabhane; 2011; Magnetic and transport properties of Polyaniline-Ferric/magnetic Iron oxide Composites; **Functional materials, macmillan 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.
9. O.P.Chimankar, R.S.Shriwas, P.S. Chopade & V.A.Tabhane; 2011; Interionic association in glycylglycine in aqueous solution of NaCl; **Journal of Chemical and Pharmaceutical Research**, 3(3), 579-586
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**; C, 1(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.
13. S.D. Bompilwar, S.B. Kondawar & V.A. Tabhane, S.R. Kargirwar; 2010; Thermal stability of CdS/ZnS nanoparticles embedded conducting polyaniline nanocomposites, **Pelagia Research Library, Advances In Applied Science Research**, 1(1), 166 -173.
14. S.D. Bompilwar, S.B.Kondawar & V.A. Tabhane; 2010, Impedance study of nanostructure CdS & ZnS; **Scholars Research Library, Archives of applied science research**, 2(3), 225-230.
15. S.B.Kondawar, S.D. Bompilwar, V.A. Khati, S.R. Thakre & V.A.Tabhane, & D.K.Burghate; 2010; characterizations of zinc oxide nanoparticles reinforced conducting polyaniline composites; **Scholars Research Library, Archives of applied science research**, 2(1), 247-253.
16. S. B. Kondawar, M.J. Hedau, V.A. Tabhane, S.P.Dongre, U.B. Mahatme & R.A. Mondal; 2006; Studies on chemically synthesized doped conducting poly (o-anisidine) and copoly{aniline-o-anisidine}; **Modern Phys Lett. B (UK)**, 20(23), 1461.
17. V.A. Tabhane, S. Agrawal & M. Kalidoss; 2002; Revised free length theory applied to binary liquid mixtures of CCl<sub>4</sub>+ toluene/aniline/o-cresol/m-cresol/p-cresol, **Physics & Chemistry of Liquids (UK)**, 40(1), 39-45.
18. V.A. Tabhane and K. G. Rewatkar; 1996; Effect of Temperature on Magnetization in Al substituted M-Ferrites; **Journal of Magnetism & Magnetic Materials**; 14; 222.
19. V.A. Tabhane, T. N. Dhobe & S. B. Khasare; 1995; Cluster approach to thermodynamic behavior of liquid mixtures; **Acoustics Letters (England)**, 15; 30.
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.
23. V.A. Tabhane; 1986; Ultrasonic wave propagation in binary liquid mixtures: **Acoustics Letters (England)**, 9; 13.

24. **V.A. Tabhane; 1985**; Ultrasonic velocity and free length in binary liquid mixtures: **Acoustica (Germany)**, **54**; 70.
25. **V.A. Tabhane; 1985**; Ultrasonic wave propagation in some liquids: **Acoustics Letters (England)** **18**; 419.
26. **V.A. Tabhane; 1984**; Effect of mixed salts on short range order in water: **Acoustics Letters (England)**, **7**; 317.
27. **V.A. Tabhane; 1983**; Ultrasonic study of molecular interaction in some mono and disubstituted derivatives Of benzene: **Acoustics Letters (England)**, **6**; 120.
28. **V.A. Tabhane & B. A. Patki; 1982**; Ultrasonic study of molecular interactions in binary liquid mixtures of phenol,
29. **V.A. Tabhane, V. N. Pendse & B. A. Patki; 1980**; Ultrasonic study of molecular interactions in toluidine-carbon tetrachloride: **Acoustica(Germany)**; **44**, 233.

#### **B. PAPERS PUBLISHED IN REFERRED NATIONAL JOURNALS (31)**

1. A.T.Shende, P.V. Tabhane, O.P. Chmankar & **V.A.Tabhane;2012**; Intermolecular free length and their correlation with molecular interaction in aqueous amino acids at 303.15K, **Biotechnology**; **6(10)**,332-336.
2. V. A. Khati, S. D. Bompilwar, S. B. Kondawar, S. P. Agrawal, **V. A. Tabhane** ; **2011**; Thermal behavior of zinc oxide nanoparticles embedded polyaniline composites, **Search and Research**, **III** (1):19-23,.
3. **V.A. Tabhane & O.P. Chimankar; 2010**; Molecular size and intermolecular binding energy determination of methyl- metha acrylite 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.
6. **V.A. Tabhane, S.B. Kondawar, D. V. Nandanwar, P. D. Wankar; 2002**; Synthesis and characterization of Organic polymer-polyaniline: **Proceedings of national seminar on novel synthesis of materials**; 33-36.
7. **V.A. Tabhane, O. P. Chimankar & K. G. Rewatkar; 2001**; Thermodynamic properties in some aqueous biological fluid mixtures: **Indian J. of Physics**, **75B** (2); 141-145.
8. **V.A. Tabhane, S. Jaykumar, N.Karunanidhi, V.Kannappan; 2000**; Molecular interactions of Iodine starch Compounds: **J. Acoust. Soc. Ind.**, **28(1-4)**, 377
9. **V.A. Tabhane, K.G.Rewatkar, S.S.Darokar, A.A.Yoel, D.V.Nandanwar; 2000**; Electrical studies of Lithium-Alluminate Ferrite Ceramics: **Ind. J. Phys.**, **74 A** (3), 327.
10. **V.A. Tabhane, S. Jaykumar, N. Karunanidhi, V. Kannappan and S.Subramanian; 2000**; Molecular interaction between electron donor and acceptor: **J. Acoustics Soc. India**, **28** (1-4); 373.
11. **V.A. Tabhane, Sangeeta Agrawal, K. G. Rewatkar; 2000**; Ultrasonic studies of binary liquid mixtures of cinnamaldehyde in methanol, acetone and cyclohexane: **J. Acoustics Soc. India**, **28** (1-4); 369.
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.
13. **V.A. Tabhane, A. D. Rangari & S. Dhakate; 1998**; Electrical properties of the derivatives of substituted polyaniline: **Indian J. of Pure & Applied Physics**, **36**; 354.
14. **V.A. Tabhane, O. P. Chimankar, S. Manja and T.K. Nambinarayanan; 1999**; Thermoacoustical studies on aqueous solutions of some biomaterial with NaOH: **Ultrasonics**, **21**; 67.
15. **V.A. Tabhane, S. Agrawal, S. Ghosh, & Kalidoss M; 1999**; Kalidoss-Jacobson free length theory applied to binary liquid mixtures of benzene + pyridine / piperidine / furon / tetrahydrofuron: **Indian J. of Pure & Applied Physics**, **37**; 583.
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.
17. **V.A. Tabhane, O. P. Chimankar, S. Manja & T.K.Nambinarayan; 1999**; Thermo- acoustical studies on aqueous solution of some Bio-Materials with NaOH: **J. Pure & Appl. Ultrasonics**, **21(3)**; 57
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.

19. **V.A. Tabhane**, A. D. Rangari & S. R. Dhakate; **1998**; Electrical properties of derivatives of substituted polyaniline: **Indian J. of Pure & Applied Physics**, **36**; 354.
20. **V.A. Tabhane** & M. V. Kokate; **1997**; Cluster approach to thermodynamic behaviour of liquid mixture: **Nagpur University Science Journal**, **VIII**; 29.
21. **V.A. Tabhane**, V. D. Bhandkhar & S. B. Khasare; **1995**; Cluster approach to thermodynamic behavior of liquid mixtures: Acrolein in methanol, cyclohexane & p-dioxane. **Indian J. of Pure & Applied Physics**, **33**; 248.
22. **V.A. Tabhane** & S. Ghosh; **1985**; Ultrasonic velocity and free length in binary liquid mixtures: **Indian J. of Pure & Applied Physics**, **23**; 301
23. **V.A. Tabhane**, S. Ghosh & S. W. Pranjale; **1985**; Comparison of free length theory & collision factor theory for binary liquid mixtures: **Indian J. of Pure & Applied Physics**, **23**; 502.
24. **V.A. Tabhane**, G. T. Thulkar & B. A. Patki; **1985**; Ultrasonic study of mixed salts solutions: KNO<sub>3</sub> & KNO<sub>2</sub> in water. **Indian J. of Pure & Applied Physics**, **23**; 58.
25. **V.A. Tabhane**, S. Ghosh & S. W. Pranjale; **1984**; Study of interaction in mixed salts solutions: KNO<sub>3</sub> & KNO<sub>2</sub> in water: **Acta Ciencia Indica**, **10(P)**; 113.
26. **V.A. Tabhane** & B. A. Patki; **1984**; Study of molecular interaction in binary liquid mixture, phenol, aniline, o, m, p-toluidine in carbon tetrachloride: **Indian J. of Pure & Applied Physics**, **22**; 447.
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
30. **V.A. Tabhane** & B. A. Patki; **1983**; Ultrasonic study of molecular interactions in carbon tetrachloride-toluidine mixtures: **Indian J. of Pure & Applied Physics**, **21**; 155.
31. **V.A. Tabhane**, V. B. Badhe & B. A. Patki; **1982**; Ultrasonic study of molecular interactions in carbon tetra chloride-cresol or phenol mixture: **Indian J. of Pure & Applied Physics**, **20**; 159.

### C. PAPERS PUBLISHED IN NATIONAL SYMPOSIUMS – Abstracted (33)

1. Priyanka Tabhane, O. P. Chimankar, Sangita Jajodia & **V. A. Tabhane**, **2011**, Viscometric study of miscibility and interaction of polyvinyl acetate, National symposium on acoustic, Bundelkhand University, **Zansi**, (17-19 November).
2. Priyanka Tabhane, O. P. Chimankar, Sangita Jajodia & **V. A. Tabhane**, **2011**, Acoustical studies on molecular interaction in polyvinyl chloride solution, National symposium on acoustic, Bundelkhand University, **Zansi**, (17-19 November)
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**.
5. **V.A. Tabhane**, O.P. Chimankar & V. N. Choudhari, **2008**; Molecular size & inter molecular binding energy determination of Methylmetha Acrylic Resins; 17th National Symp. on Ultrasonics, B. H. U., **Varanasi**; 206-209.
6. **V.A. Tabhane**, O.P. Chimankar & Nilesh Raut, **2006**, **Ultrasonic** wave propagation studies in some aqueous biomaterials, Proc of 15th Nat Symp. on Ultrasonics (NSU-V), **Allahabad**, pp.127. (1-3Nov).
7. **V.A. Tabhane**, K. G. Rewatkar & O. P. Chimankar; **1999**; Magnetic studies in Co-Al substituted Calcium ferrite: Solid State Phys. Symp., 42c, **Kalpakkam**
8. **V.A. Tabhane**, K.G. Rewatkar, & O.P. Chimankar, **1999**, Magnetic and Electrical studies in Al-substituted M-Ferrites, DAE-BRANS National Symp. On recent trends in electro and magneto Ceramics, Shivaji University, **Kolhapur**, pp.22 (18-20Feb).
9. **V.A. Tabhane**, O.P. Chimankar and Sangeeta Agrawal, **1998**, Ultrasonic Investigations on aqueous solution of some biological materials, National Symp. on Acoustics (NSA-98), **Kolkata** (18-20Dec).
10. **V.A. Tabhane**, O.P. Chimankar, K.S. Manja and T.K. Nambinarayanan, **1998**, Thermo acoustical studies on aqueous solutions of some biomaterials with NaOH, XI National Symp. on Ultrasonics, **Pondichery**, pp.12. (14-16Dec).
11. **V.A. Tabhane**, S.G. Charalwar, O.P. Chimankar, D.V. Nandanwar and M.V. Kokate, **1997**, Thermo acoustical parameters in some liquids, DAE Solid State Phys. Symp, 40c, 336, **Cochin**.
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, 8<sup>th</sup> 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.*, **41c**; 113.
14. **V.A. Tabhane**, S. G. Charalwar, D. V. Nandanwar, M. V. Kokate & O. P. Chimankar; **1997**; Thermoacoustical parameters in some liquids: *Solid State Phys. Symp.*, **40c**; 336.
15. **V.A. Tabhane** & M. V. Kokate; **1996**; Nucleation of micro-domains by dislocation & impurities in KNbO<sub>3</sub> single crystals: *Solid State Phys. Symp.*, **39c**; 751.
16. **V.A. Tabhane** & M. V. Kokate; **1996**; Micro structural changes in KNbO<sub>3</sub> single crystals due to  $\gamma$ - ray irradiation: *Solid State Phys. Symp.*, **39c**; 320.
17. **V.A. Tabhane** & M. V. Kokate; **1995**; Role of dislocation under the influence of DC electric field in KNbO<sub>3</sub> single crystals: *Solid State Phys. Symp.*, **38c**; 360.
18. **V.A. Tabhane** & M. V. Kokate; **1995**; Effect of  $\gamma$  - irradiation on ferroelectric behavior of KNbO<sub>3</sub> single crystals: *Solid State Phys. Symp.*, **38c**; 140
19. **V.A. Tabhane** & M. V. Kokate; **1994**; Effect of  $\gamma$  - irradiation on KNbO<sub>3</sub> single crystals: *Solid State Phys. Symp.*, **37c**; 256.
20. **V.A. Tabhane** & M. V. Kokate; **1994**; Micro domain nucleation under the influence of steady electric field in KNbO<sub>3</sub> single crystals: *Solid State Phys. Symp.*, **37c**; 474.
21. **V.A. Tabhane** & M. V. Kokate; **1993**; Impurity-dislocation interaction under steady electric field in KNbO<sub>3</sub> single crystal: *Solid State Phys. Symp.*, **36c**; 308.
22. **V.A. Tabhane** & S. Ghosh; **1993**; Ultrasonic study of molecular shapes in some binary liquid mixtures: *Solid State Phys. Symp.*, **36c**; 419.
23. **V.A. Tabhane**, T. N. Dhobe & S. Ghosh; **1992**; A Study of molecular shapes of some  $\alpha,\beta$ - unsaturated carbonyl compound: *Solid State Phys. Symp.*, **35c**; 507.
24. **V. D. Muley**, S. Ghosh & V.A. Tabhane; **1992**; Molecular shape determination in binary liquid mixtures: *Solid State Phys. Symp.*, **35c**; 115.
25. **V.A. Tabhane**, G. T. Thulkar & B. A. Patki; **1985**, Study of molecular association in some liquids: *Solid State Phys. Symp.*, **28c**; 205.
26. **V.A. Tabhane**, S. Ghosh, S. W. Pranjale & M. K. Bagade; **1984**; Study of excess free energy in binary liquid mixtures CCl<sub>4</sub> - phenol, aniline: *Solid State Phys. Symp.*, **27b**; 125.
27. **V.A. Tabhane**, S. Ghosh, T. N. Dhobe & B. A. Patki; **1984**; Study of free volume in CCl<sub>4</sub> -cresol mixture: *Solid State Phys. Symp.*, **27g**; 246.
28. **V.A. Tabhane**, S. Ghosh, S. W. Pranjale & B. A. Patki; **1984**; Study of excess free energy in binary liquid mixtures CCl<sub>4</sub> + Phenol, aniline: *Solid State Phys. Symp.*, **27b**; 125.
29. **V.A. Tabhane**, S. Ghosh, S. W. Pranjale & B. A. Patki; **1984**; Acoustic parameters in some liquids: *Solid State Phys. Symp.*, **27g**; 241.
30. **V.A. Tabhane** & B. A. Patki; **1983**; Study of excess free energy in binary mixture of carbon tetrachloride and cresol: *Nuclear Phys. and Solid State Phys. Symp.*, **26c**; 487.
31. **V.A. Tabhane** & G. T. Thulkar; **1982**, Study of molecular order in some liquids: *Solid State Phys. Symp.*, **25c**; 501.
32. **V.A. Tabhane** & B. A. Patki; **1981**; Study of excess free energy in binary mixtures of carbon tetrachloride - cresol or phenol mixtures; *Nuclear Phys. and Solid State Phys. Symp.*, **23c**; 131.
33. **V.A. Tabhane**, V. N. Pendse & B. A. Patki; **1980**; Compressibility and Viscosity in binary mixtures of carbon tetrachloride - toluidine: *Nuclear Phys. and Solid State Phys. Symp.*, **23c**; 847.

#### **D. Conference Presentation:**

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

1. Priyanka Tabhane, O.P.Chimankar, R. srivas & **V.A.Tabhane**; **2012**; Study of miscibility and interaction in polyvinyl acetate blend using ultrasonic technique; International symposium on ultrasound in the control of industrial process, Madrid, **Spain**(18-20 April, 2012).
2. Priyanka Tabhane, O.P.Chimankar, C.M. Dudhe & **V.A.Tabhane**; **2012**; Concentration dependent phase separation studies by ultrasonic technique in polyvinyl chloride- polyvinyle acetate blend; 1st Indo- US International conference on polymers for packaging applications; Kottayam, **Kerala**(31<sup>st</sup> March- 2<sup>nd</sup> April, 2012)
3. S.A. Arote, **V.A. Tabhane** & H.M.Pathan;**2012**;Electrodeposition of porous Tin Oxide(SnO<sub>2</sub>) thin films useful for DSSC;1<sup>st</sup> 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; 1<sup>st</sup> international conference on Physics of materials and materials based device fabrication, Shivaji University , Kolhapur (17-19, Jan'2012).
5. V.A. Khati,,S.B. Kondawar & **V.A. Tabhane**; **2011**; Magnetic and transport properties of polyaniline-feric magnetic iron oxide composites; International conference on advanced materials;PSG college of technology, Coibtoore (12-16 Dec' 2011).
6. A.A. Meshram, **V.A. Tabhane** & H.M. Pathan; **2011**; Cadmium hydroxide nonowire electrodes for glucose detection; @nd International conference on advanced nanomaterials and notechnology; IIT, **Guwahati** (8-10 Dec., 2011).
7. U.B. Mahatme, S.P. Dongre & **V.A. Tabhane**; **2011**; Thermal stability and oxidation states of chemically synthesized composites of polyaniline salt with zirconium dioxide; POLICHR 19-WORLD FORUM ON ADVANCED MATERIALS, Kathmandu, **Nepal** (20-24March).
8. V.A. Khati, S.D. Bompilwar, S.B. Kondawar & **V.A. Tabhane**: **2011**; Electrical and magnetic study of polymeric magnetic composites; International conference on Chemistry for mankind: Innovative ideas in life sciences; R.T.M. Nagpur University, **Nagpur** (9-11th Feb' 2011).
9. A.A.Meshram, P.S. Chaware, V.K. Pandit, **V.A. Tabhane** and H.M.Pathan;**2011**; Chemical synthesis of cadmium hydroxide nanowires and their application in glucose detection; International conference on Chemistry for mankind: Innovative ideas in life sciences; R.T.M. Nagpur University, **Nagpur** (9-11th Feb'2011).
10. V.A. Khati, S.D. Bompilwar, S.B. Kondawar & **V.A. Tabhane**; **2011**; Electrical and magnetic study of polymeric magnetic composites; International conference on Chemistry for mankind: Innovative ideas in life sciences; R.T.M. Nagpur University, **Nagpur** (9-10 Feb' 2011).
11. Archana A. Meshram, **V.A. Tabhane**, S.H. Pawar & H.M. Pathan; **2010**; Chemical synthesis of nanocrystalline metal oxides useful for medical applications; International conference on nanotechnology and medical sciences; Centre for interdisciplinary research, D.Y. Patil University, **Kolhapur** (21-23 Oct).
12. **V.A.Tabhane**, S.D. Bompilwar & S.B. Kondawar; **2010**; Synthesis and characterization of nanostructure ZnS/CdS reinforced conducting Polyaniline nanocomposites; International Conference on nanomaterials and nanotechnology; Tiruchengode, **Namakkal** (TN.).
13. **V.A. Tabhane**, O, P. Chimankar, S. Jajodia & R. Shrivasi; **2010**;Intermolecular interaction studies in some amino acids using thermoacoustic method; IEEE International Ultrasonics Symposium, San Diego, **California, USA**
14. **V.A. Tabhane**, V. B. Mahatme, K.G. Rewatkar, S. P. Dongre, P. B. Dabrase; **2009**; Oxidation states of electrically conductive guest – host composites of poly aniline salt and V2O5 xerogel, International conference on active smart materials, Thiagarajar, College Of Engineering, **Madurai(T.N)**.
15. **V.A. Tabhane**, V. B. Mahatme, K.G. Rewatkar, S. P. Dongre, P. B. Dabrase; **2009**; Thermal stability and oxidation states of chemically synthesized composites of Polyaniline salt with zirconium dioxide, International conference on active smart materials, Thiagarajar, College of Engineering, **Madurai**, India.
16. **V.A. Tabhane**, O.P.Chimankar & P. Kalode; **2008**; Nanotechnology- a new frontier research,International conference on nanomaterials and applications, Dept. of Chem & Phys, Shivaji University, **Kolhapur**, India. (9-11Dec).
17. **V.A. Tabhane**, O.P.Chimankar; **2007**; Thermo acoustics Nonlinear studies in aqueous DNA Solutions, 19th International Congress on Acoustics ICA 2007, Madrid, **Spain**. (2-7Sept).
18. **V.A. Tabhane** & O.P. Chimankar;**2007**; Nonlinear thermoacoustical properties in aqueous biomaterials, studies in simulation and modeling; International Conference on Acoustics & Music, Theory Applications; Vancouver, **Canada**.(19-21Jun).
19. **V.A. Tabhane** & S.B. Kondawar; **2006**; Conductivity and Magnetic susceptibility of chemically synthesized doped polyaniline, poly (o-anisidine) and copoly(aniline-o-anisidine), Indo- Singapore Symposium on Adv Functional Materials, IIT, **Mumbai**, India.
20. **V.A. Tabhane**, O.P.Chimankar; **2005**; Ultrasonic Investigations in aqueous biomaterials using PEO Technique, International Conference on Physics for World and Society, Celebration of World Year of Physics – 2005, Bikaner & **Jaipur**, India(1-4Dec).
21. **V.A. Tabhane** & S.B. Kondawar, **2003**, Synthesis, characterization and transport Properties of organic conducting polymer composites, Transport and magnetic properties of SrTiO<sub>2</sub>, Zn<sub>2</sub>Fe<sub>10</sub>O<sub>22</sub> Hexaferrite, 2nd International Conf on Materials for Adv Technologies, Suntec, Singapore International Convention and Exhibition Centre, **Singapore**.
22. **V.A. Tabhane**, O.P.Chimankar, D.V.Nandanwar, K.G.Rewatkar; **1999**; Acoustical studies on Molecular Interaction in some biomaterial with aqueous NaOH at 303K; International Conference and Exhibition on Ultrasonics, **New Delhi**.(2-4Dec).

23. **V. A. Tabhane**, M. V. Kokate, R. G. Rewatkar & Sangeeta Agrawal; **1999**; Evaluation of thermo-acoustic parameters from volume expansivity data in fluid mixtures, International Conference on Mathematical Phys., Dept. of Mathematics, **Nagpur University**, (11-16 January).
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#### **E. PAPERS PRESENTED IN NATIONAL CONFERENCES/ SEMINARS (44)**

1. Priyanka Tabhane, O. P. Chimankar & **V. A. Tabhane**, **2012**; Ultrasonic studies in polycarbonate-polymethacrylate 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 University, Aurangabad (16-17 Feb' 2012).
3. U.B. Mahatme, **V.A.Tabhane**, D.S. Badwaik and S.P.Dongre; **2011**; Thermodynamic study of electrically conductive Pani/PbS polymer composite; Bhalerao Science College, **Saoner**, Dist-Nagpur (17<sup>th</sup> dec, 2011).
4. Archana A. Meshram & **Vilas Tabhane**; **2011**; Nanocrystalline metal oxides: potential biosensors; National conference on recent trends in material synthesis and characterization, Bhalerao Science College, **Saoner**, Dist-Nagpur; 17<sup>th</sup> 2011.
5. A.D. Dahegaonkar, S.B. Kondawar, **V.A. Tabhane** and S.P.Dongre; **2011**; Morphology and infra red spectroscopy of chemically synthesized polyaniline-fly ash composites; National conference on recent trends in material synthesis and characterization, Bhalerao Science College, **Saoner**, Dist-Nagpur (17<sup>th</sup> dec' 2011).
6. Priyanka Tabhane, O. P. Chimankar, C. M. Dudhe, Sangita Jajodia & **V. A. Tabhane**, **2011**, Study of polyvinyl acetate blend using ultrasonic technique, National Conference on synthesis and characterization of advanced materials, Janata Mahavidyalaya, **Chandrapur**, (8<sup>th</sup> October 2011).
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**; (26<sup>th</sup> Dec' 2010).
8. **V.A. Tabhane**, S. Bompilwar, V. Khati, Priyanka Tabhane & S. B. Kondawar; **2010**; Enhanced Thermal Stability of Polyaniline- ZnS nano composites; National Seminar on Synthesis of Advanced Materials and their Applications; N. H. Col, Bramhpuri, Dist. **Chandrapur** ( March).
9. V.A. Khati, S.D. Bompalliwar, S.B. Kondawar & **V.A. Tabhane**; **2010**; Thermal study of polyaniline- Fe<sub>2</sub>O<sub>3</sub> composites, National conference on advanced nanomaterials; Jagat Science college, **Goregaon**, Distt. Gondia (25th Feb' 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).
11. V.A. Khati S.D. Bompalliwar, S.B. Kondawar & **V.A. Tabhane**; **2010**; Synthesis, characterization and thermal study of polyaniline- ZnO composites; National conference on nano materials and nano technology, VNIT, **Nagpur** (18, 19, 20 Jan' 2010).
12. V.A. Khati, S.D. Bompalliwar, S.B. Kondawar & **V.A. Tabhane**; **2010**; Characterizations of zinc oxide nanoparticles reinforced conducting polyaniline composites" National conference on advanced materials, Vidya Bharati Mahavidyalaya; **Amravati** ( 6<sup>th</sup> -7<sup>th</sup> January 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).
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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).
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21. **V.A. Tabhane**, O.P.Chimankar, Sangeeta Jajodiya, Rangeeta Shriwas; **2008**; Hydrogen interaction studies in between lysine, adenosine in aqueous medium; National conference on advances in Phys & its applications, BITCON Bhilai Institute of Technology, **Durg** (7-8Nov).
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23. **V.A. Tabhane** & S. B. Kondawar, 2008, Nanocomposite of inorganic semiconductor zinc Oxide and organic conducting polymer, National Conference on Adv Technologies In Materials and Crystals, Dept. of Phys, Dr Ambedkar Col, **Nagpur** (28-29 Jan' 2008).
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25. Sangita Jajodia & **V. A. Tabhane**, **2008**, Theoretical evaluation of ultrasonic velocities in binary mixtures using free length theory, Revised free length theory and Flory's theory, Tenth Conference of International Academy of Physical Sciences, Guru Ghasidas University, **Bilaspur**, ((12-14 January).
26. **V.A. Tabhane** & S. B. Kondawar, **2006**, In-situ polymerization of polyaniline- TiO<sub>2</sub> Nanocomposites; Studies on chemically synthesized conducting polyaniline- cadmium Sulphide composites, National Conference on Recent Advancements in Material Science, R.M. Vivekananda Collage(Autonomous), **Chennai**.
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**.
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29. **V.A. Tabhane**, O.P.Chimankar, M.Kalidoss and Nilam Jagtap, **2005**, Ultrasonic Absorption & Relaxation in some biomaterials with aqueous NaOH, National Conf on Ultrasonics, **Tiruchirappalli**.(2-4Dec).
30. **V. A. Tabhane** & Sangeeta Jajodia, **2004**, Comparison of free length theory, Revised free length theory & Flory's theory for binary liquid mixtures, 7<sup>th</sup> Conference of International Academy of Physical Sciences, Dept. of Mathematics, University of Allahabad, **Allahabad**.
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40. **V.A. Tabhane**, O.P.Chimankar & K.G.Rewatkar, **1999**, Thermodynamic properties in some aqueous biological fluid mixture, National Conference on Thermodynamic Properties, **Gauhati**. (11-13March).
41. **V.A. Tabhane**, A.Yoel and O.P.Chimankar, **1998**, Role of gamma ray irradiation in controlling ferroelectric behavior of PbNb<sub>2</sub>O<sub>6</sub> single crystals, Proceeding of Prof. K S. Krishnan Birth Centenary conf on condensed matter Physics, **Allahabad**, pp.166.(4-7Dec).
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).
43. **V. A. Tabhane**, S.G. Charalwar, S.G. Goswami, Sangita Agrawal & S. B. Khasare, **1998**, Model equation of state for visualizing thermodynamic behavior of liquid mixtures, Workshop on physical ultrasonics, St. Joseph's College, **Tiruchirapalli**, pp 54-61( 27<sup>th</sup> January).
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#### **F. Research Papers/ Articles in Books (09)**

1. Priyanka Tabhane, O.P. Chimankar, Sangeeta Jajodia and **V.A. Tabhane**; **2011**; Viscometeric 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.
3. **V.A. Tabhane** & O.P. Chimankar; **2007**; Acoustical properties in aqueous biomaterials; Studies in simulation and modeling; WSEAS Press, 27- 30.
4. **V.A. Tabhane**, O.P. Chimankar & S. Jajodia; **2007**; Ultrasonic studies of molecular interaction in aqueous biomaterials; Advances in Electronic Materials and Devices- Article 15; Anamaya Publications, New Delhi.
5. **V.A. Tabhane**, D. S. Badwaik, V.D. Badwaik & O. N. Awasthi; **1999**; Phase transition of liquid crystals using thermo-acoustical parameters; Condensed Matter Phys., Narosa Publishing House,280.
6. **V.A. Tabhane**, K. G. Rewatkar & D. V. Nandanwar; **1999**; Study of K-edges of 3d transition metals in pure and substituted ferrites; Condensed Matter Phys., Narosa Publishing House, 309.
7. **V.A. Tabhane**, A. A. Yoel, M. V. Kokate & O. P. Chimankar; **1999**; Role of  $\gamma$ - ray irradiation in controlling ferroelectric behavior of PbNb<sub>2</sub>O<sub>6</sub> single crystals; Condensed Matter Phys., Narosa Publishing House,265
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9. **V.A. Tabhane**, A. A. Yoel, V. Y. Koltewar, S. Nanarao & M. V. Kokate; **1999**; Dielectric behaviour of PbNb<sub>2</sub>O<sub>6</sub> single crystals at various temperatures; Condensed Matter Phys., Narosa Publishing House,206.

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