

CURRICULUM VITAE

of Adavala Venkatesulu

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EDUCATIONAL QUALIFICATIONS

COURSE	DETAILS	PERCENTAGE
Ph.D	<ul style="list-style-type: none">➤ In Physics (Soft Condensed Matter Physics)➤ Thesis: Quantum Chemical, Physical & Thermo Acoustic studies in Some polar liquid crystals.➤ Sri Krishnadevaraya University, Anantapur, Andhra Pradesh, India / Nov 2001 – Jun 2007	NA
M.Sc.	<ul style="list-style-type: none">➤ In Physics with specialization in Electronics➤ Sri Krishnadevaraya University, Anantapur, Andhra Pradesh, India / July 1998 – June 2000	First Class 73.14%
B.Sc.	<ul style="list-style-type: none">➤ with Mathematics, Physics and Statistics.➤ Sri Krishnadevaraya University, Anantapur, Andhra Pradesh, India / July 1995 – June 1998	Distinction with 75.5%

TEACHING EXPERIENCE

July 2017 to till date	Assistant Professor and Coordinator for PG <i>Post Graduate Department of Physics</i> GFG College, Hosakote-562114, Bengaluru, India
Sept 2009 – Jun 2017	Assistant Professor & Head Dept. of Physics, GFG College, Hosakote-562114, Bengaluru, India
July 2007 – Aug 2009	Lecturer & HOD of Physics for B.Tech., Graduate courses Sri Krishnadevaraya University College of Engineering and Technology (SKUCET), Sri Krishnadevaraya University, Anantapur, Andhra Pradesh, India
June 2003 – June 2007	Lecturer , Dept. of Physics, CVLNR Degree and PG College, Anantapur, Andhra Pradesh, India
June 2000 – Dec 2001	Lecturer , Dept. of Physics, CVLNR DEGREE COLLEGE, Anantapur, Andhra Pradesh, India

RESEARCH GUIDENCE for Ph.D Scholars as Main Research Supervisor

Sl. No.	Name of the Research Student	University	Year of Admission	Year of Award
1	M. Chandrasekhar	JNT University, Hyderabad	2009	2016
2	M. Raghavendra	Rayalaseema University - Kurnool	2010	2017
3	Srinivasa	Rayalaseema University - Kurnool	2010	Pursuing

RESEARCH GUIDENCE for M.Phil Scholars as Main Research Supervisor

Sl. No.	Name of the Research Student	University	Year of Admission	Year of Award
1	Y Chandrasekhar	Sri Vinayaka Mission University -Selam	2006	2008

RESEARCH PROJECTS COMPLETED As a Principal Investigator (worth of Rs. 21,20 000)

Sl. No.	Project Details
1	<ul style="list-style-type: none"> ➤ Title: "Structure –Property Investigations in some polar Liquid crystals using Computer aided Quantum Chemical Studies" ➤ Funding agency: University Grants Commission-South Western Regional Office (UGC-SWRO). ➤ Duration: October2013 to September 2015, (Amount: Rs.1 20 000)
2	<ul style="list-style-type: none"> ➤ VGST-SDP project for "Establishment of center for Excellence in Physics" Funding agency: VGST, GOK, Dept. of IT,BT& S&T (Amount: Rs.20 00 000)

UGC SPONSORED REFRESHER AND ORIENTATION COURSES ATTENDED

Sl. No.	Refresher / Orientation	Sponsors	Year	Theme of the Course
1	Refresher in Physics @ Indian Institute of Science-TDC IISC	UGC	18-06-2017 to 10-07-2017	University and PG College teachers training programmer in Physics
2	Refresher in Physics @ Dept. of Polymer Science, SK University, Anantapur,	UGC	28-09-2007 To 18-10-2017	Advances in polymeric materials
3	Orientation Course @ Academic Staff College, Sri Venkateswara University, Tirupathi.	UGC	23-08-2010 to 18-09-2010	NA
4	Refresher in Physics @ JNT University, Hyderabad	UGC	12-08-2013 To 03-09-2013	"Physics of Bulk, Thin and Nano Size Materials"
5	Refresher Course by Dept. of Collegiate Edn. & Karnataka Jnana Ayog	GOK	01-04-2012 to 07-04-2012	Teacher Empowerment Training for Assistant Professors"

ATTENDED AS A VISITING SCIENTIST

Sl. No.	Year	Details of the Course and Venue
1	June 2000	Summer Research Programme in INSTITUTE OF PHYSICS (DAE Unit), Bhubaneswar, Orissa, India
2	Feb 2002	SERC School on the Development of Plasma based Particle Accelerators at SAHA Institute of Nuclear Physics (DAE Unit), Kolkata, West Bengal, India

MERITS / AWARDS

Sl. No.	Details
1	Awarded merit certificate in National Standard Examination in Physics in 1998. (Graduate level). Conducted by Indian Association of Physics Teachers .
2	Awarded merit certificate in National Standard Examination in Physics in 1995. (At Class XII level). Conducted by Indian Association of Physics Teachers .

PUBLICATION IN PEER-REVIEWED JOURNALS (Total Publications – 22)

1. R.R Reddy, **A.Venkatesulu**, K.Neelakanteswara Reddy, K. Rama Gopal, *On the behavior of thermo-acoustic properties of liquids. Journal of Molecular Liquids (Elsevier)*, Vol. 126, PP: 9-13, 2006. [Impact Factor:3.648 and Citation Index:13] [doi:10.1016/j.molliq.2004.08.032](https://doi.org/10.1016/j.molliq.2004.08.032).
2. R.R Reddy, **A.Venkatesulu**, K.Neelakanteswara Reddy, K. Rama Gopal, *Thermo acoustic Parameters in the Nematic and Isotropic phases of 5CB and Tetraethyl methane in 5CB* *Journal of Molecular Liquids(Elsevier)*, Vol. 130, PP: 112-118, 2007. [Impact Factor: 3.648 and Citation Index:20], [doi:10.1016/j.molliq.2006.05.014](https://doi.org/10.1016/j.molliq.2006.05.014).
3. R.R Reddy, **A.Venkatesulu**, K. Narasimhulu, L. Siva Sankar Reddy, K. Ragavendra Kumar, K. Rama Gopal, *Correlation between available volume and Inter Molecular free length from different Thermo-acoustic Parameters.* *Journal of Molecular Liquids(Elsevier)*, Vol. 140, PP: 48-53, 2008. [Impact Factor: 3.648 and Citation Index:27] [doi:10.1016/j.molliq.2008.01.003](https://doi.org/10.1016/j.molliq.2008.01.003).
4. M.Parinitha, **A.Venkatesulu**, Dielectric and AC Conductivity studies of Vanadium Pentoxide doped polyaniline Composites, *Research Inventy: International Journal of Engineering and Science (IJES)*, 2013, E –ISSN-2319-1813.
5. M.Parinitha, A.Venkatesulu, Synthesis, characterization and transport property of PANI–calcium titanate composites, *International Journal of Latest Research in Science and Technology* ISSN (Online):2278-5299 Volume 2, Issue 1 :Page No.495-498 , January-February (2013) <http://www.mnkjournals.com/ijlrst.htm> - IJLRST, 2013
6. M. Chandra Sekhar, T.Madhu Mohan, T.Vijaya Krishna and **A.Venkatesulu**. Density, Refractive Index, Speed of Sound and Computational Studies of Intermolecular Interactions in Binary Mixtures of 2-Chloroaniline with Butanols (1-Butanol, 2- Butanol) at T(303.15–318.15)K, *Journal of Solution Chemistry (Springer)* 2015, Volume 44, [Issue 2](https://doi.org/10.1007/s10953-015-0306-4), pp 237-263, [DOI 10.1007/s10953-015-0306-4](https://doi.org/10.1007/s10953-015-0306-4), ISSN 0095-9782. [Impact Factor:1.342 and Citation Index:5]
7. M.Chandrasekhar, **A.Venkatesulu**, T.Madhu Mohan and M.Gowrisankar Density Functional Theory, Natural Bond Orbital and Atoms in Molecule Analyses on the Hydrogen Bonding Interactions in 2-chloroaniline-Carboxylic Acids” *Oriental journal of chemistry-OJCHEG* 2015, Vol. 31, No. (2),

<http://dx.doi.org/10.13005/ojc/310233>, ISSN : 0970 - 020X, ONLINE ISSN : 2231-5039, [IPP:0.478(2014) and SNIP:0.578(2014)]. [**Impact Factor:0.58 and Citation Index:13**]

8. M.Chandrasekhar, **A.Venkatesulu** and M.Gowrisankar “Thermodynamic and theoretical study on hydrogen bonded binary mixtures of isomeric butanols with o-toluidine at T = (303.15 to 318.15) K” *Journal of Molecular Liquids(Elsevier)*209 (2015) 428–439. [Impact Factor: 3.648 and Citation Index:10]<http://dx.doi.org/10.1016/j.molliq.2015.04.034>.
9. **A.Venkatesulu**,M.Gowrisankar, T. Srinivasa Krishna and K.Ravindhranath “Studies on the importance of chain length of alkanols on the thermodynamic and transport properties of liquid mixtures at various temperatures” *The Journal of Chemical Thermodynamics*, Volume 107, April 2017, Pages 104–113, <http://dx.doi.org/10.1016/j.jct.2016.12.019>[**Impact Factor:2.784 and Citation Index:1**]
10. R. Balaji, M. Gowri Sankar, **A. Venkatesulu**, M. Chandra Shekar “Mesomeric effect on thermodynamic parameters of binary liquid mixtures of N-methyl formamide and o-substituted anilines” *Journal of Molecular Liquids(Elsevier)*Volume:230, March-2017, Pages:36–43, <http://dx.doi.org/10.1016/j.molliq.2016.12.109>. [Impact Factor: 3.648 and Citation Index: 0]
11. M.Chandrasekhar, **A.Venkatesulu** and M.Gowrisankar, Densities, Speed of sound and dynamic viscosities properties of binary liquid mixture 2-Chloroaniline + carboxylic acids. *Physics and Chemistry of Liquids, (Taylor & Francis)* Volume 55, 2017 - Issue 2, Pages 196-217 <http://dx.doi.org/10.1080/00319104.2016.1183201>[**Impact Factor:1.145 and Citation Index:1**]
12. P. Venkateswarao MuvvaRaghavendra , A. Venkatesulu , K . Sambasiva Rao, “Electron Releasing Effect on the Thermodynamic and Transport Properties of Liquid Mixtures at Various Temperatures” *IOSR Journal of Applied Chemistry 10(07):12-27, July 2017, DOI: 10.9790/5736-1007021227*
13. MC Sekhar, M Gowrisankar, A Venkatesulu, KC Reddy, “Experimental and computational study of the molecular interactions between 2-chloroaniline and substituted ethanol’s ” 221, 1,867-877 - *Journal of Molecular Liquids*, 2016 <https://doi.org/10.1016/j.molliq.2016.06.014> [Impact Factor: 3.648 and Citation Index:0]
14. A.Venkatesulu, N.Srinivasa Rao & P Ravindranath,“Heat Transfer Characteristics of Nanofluids in fully developed channels And flat walls” *Open Journal of Applied & Theoretical Mathematics (OJATM)* Vol. 2, No. 4, December 2016, pp. 753~763 ISSN: 2455-7102
15. Muvva Raghavendra, A.Venkatesulu&M.Gowrisankar “Excess molar volumes, speeds of sound and viscosities for binary mixtures of 2-methylaniline with selected di- and tri – chloro substituted benzene at various temperatures - comparison with prigogine-flory-patterson theory”*ARPJ Journal of Engineering and Applied Sciences (ISSN 1819-6608)* Vol. 12, No. 22, November 2017, pp. 5966~5982 ISSN: 1819-6608
16. Muvva Raghavendra, A. Venkatesulu, M. Gowrisankar and E. Kalavathi “Study of Intermolecular Interactions in Binary Mixtures of 2-Methylaniline with Isomeric Chlorotoluenes at Various Temperatures” *Asian J. Chem. /2017 / 29(12)/pp 2597-2604* <https://doi.org/10.14233/ajchem.2017.20703>
17. Muvva Raghavendra, E.Kalavathi, A. Venkatesulu K. Chandra Sekhara Reddy,“Inductive / Mesomeric effect on molecular interactions in binary mixtures of the 2 -methoxyanilineand

mono substituted benzene derivatives at various temperatures” *Research Journal of Chemistry and Environment*, Vol. 21 (12) December (2017)

18. K Sivakumar, M Raveendra, M Chandrasekhar, K Chandrasekhar Reddy, **A Venkatesulu**, K Dayananda Reddy,” Study on Thermo physical properties of binary mixture containing aromatic alcohol with aromatic, substituted aromatic amines at different temperatures in terms of FT-IR, ¹H NMR spectroscopic and DFT method” *Journal of Fluid Phase Equilibria (Elsevier)-Vol 462,85-99(2018)*
19. Raghavendra Muvva, Venkatesulu Adavala ,Srinivasa Krishna Tadikonda, M.Gowrisankar “Studies on associated solutions: Evaluation of thermodynamic parameters of blends of 2-methylaniline and substituted ethanol at various temperatures” *Journal of Solution Chemistry.2018 (JOSL-D-17-00134R2* Accepted for publication on 16th January 2018)
20. Muvva Raghavendra, A. Venkatesulu, M. Gowrisankar & M Chandrasekhar “Excess thermodynamic properties in binary mixtures of 2-methoxy aniline with acetophenone and cyclic ketones at various temperatures” *Indian Journal of Advances in Chemical Science (IJACS)*. Manuscript Number: IJACS-386. (2017) (Accepted for Publication)
21. M.Chandrasekhar, **A.Venkatesulu** and M.Gowrisankar “Effect of placement of hydroxyl group in isomeric butanediols in intermolecular interactions with 2-chloroaniline: A computational and Experimental approach”, *Journal of Solution Chemistry*.2017 (Accepted for publication)
22. Muvva Raghavendra, **A.Venkatesulu**, M. Gowrisankar “Investigations of molecular interactions in binary mixtures of the 2-methylaniline and mono substituted benzene derivatives at various temperatures,*Oriental journal of chemistry-OJCHEG 2017* (Under Review)

PAPER PRESENTATIONS

1. “**Abinitio and DFT investigations on some organic acids relevant to tropospheric aerosols**” AdavalaVenkatesulu and K Chandrasekhar Reddy in National Conference on Environment and Climate Change: Issues and Challenges (ECCIC-2017) during 10th-11th March,2017 at Department of Physics, Sri Krishnadevaraya University,Ananthapur,Andhrapradesh,India
2. “**Molecular Modelling and simulation Techniques to address Global Warming**” A.Venkatesulu,M Chandrasekhar and K Chandrasekhar Reddy in National Conference on Environmental Pollution and its impact on regional climate change(EPRCC-2016) during 11th-12th March,2016 at Department of Physics, Sri Krishnadevaraya University,Ananthapur,Andhrapradesh,India.
3. “**Thermodynamic and theoretical study on hydrogen bonded binary mixtures of isomeric butanols with O-toulidine at T=(303.15 to 313.15)**”, M Chandrasekhar, **A.Venkatesulu** and M.Gowrisankar, **UGC & SAP Sponsored Two Day National Level Conference On “Advances and Innovations in Chemical Sciences”(NCAICS-2015)** during February 12-13,2015 at Department of Chemistry,University of Mumbai.
4. “**Experimental and Computational approach to the study of Intermolecular Interactions in the Binary mixtures of 2-Chloroaniline with 2-Methyl-1-Propanol/2-Methyl-2-Propanol at T=(303.15 to 318015)K under atmospheric pressure**”, M Chandrasekhar,T.Madhumohan,T.VijayaKrishna,V.SrinivasaRao,K.Sivakumar and **A.Venkatesulu** ,The National Conference on Thermodynamics of Chemical, Biological,

Environmental and Non-Conventional energy Systems-(TCBNES-2014),during 17-18 October,2014 at Department of Chemistry,Sardar Patel University,Gujarat.

5. **“Food Security Through Biodiversity Conservation”** K.Harish Kumar and **A.Venkatesulu**, Two Day National Workshop on Environmental Pollution and Impacts on Public Health and Agriculture(EPPA-2012),during 21-22 February,2012 at Department of Physics, SriKrishnadevaraya University, Anantapur, AndhraPradesh.
6. **“Physico-Chemical Parameters and Zoo Plankton communities in K.R.PuramLake,Bangalore,Karnataka”** A.Venkatesulu and K.Harish Kumar, Two Day National Workshop on Environmental Pollution and Impacts on Public Health and Agriculture(EPPA-2012),during 21-22 February,2012 at Department of Physics, Sri Krishnadevaraya University,Anantapur,AndhraPradesh.
7. **“Dielectric Investigations on Hydrogen Bonded Polar Binary Mixture of Propanol-2-ol And Ethyl Benzoate”** T.MadhuMohan, T.Vijay Krishna, A.Venkatesulu, S.Sreehari Sastry and V.R.K.Murthy. UGC National Seminar on “Emerging Materials and technologies (EMT-2010) during 9-10 October, 2010,Dept.of Physics, SSBN Degree and PG college, Anantapur, India.
8. **“On The Behaviour of Induced Smectic-G Phase in Hydrogen Bonded Liquid Crystal”** A.Venkatesulu, T.Madhumohan, T.Vijaya Krishna, K.Chandrasekar Reddy. UGC National Seminar on “Emerging Materials and technologies (EMT-2010) during 9-10 October, 2010,Dept.of Physics, SSBN Degree and PG college, Anantapur, India.
9. **“Synthesis,Spectroscopic Characterization and DFT Caluculations On Chlorophenyl Substituted PyrazolesDerivatives”** G.Sivareddy, A.Venkatesulu, K.Chandrasekhar Reddy and M.S.Surendrababu. UGC National Seminar on “Emerging Materials and technologies (EMT-2010) during 9-10 October, 2010,Dept.ofPhysics,SSBN Degree and PG college, Anantapur, India.
10. **“ThermoAcoustic Parameters of NematogenicDifluorobengene Derivatives”** K.Chandrasekarareddy, D.Sailaja and A.Venkatesulu. UGC National Seminar on “Emerging Materials and technologies (EMT-2010) during 9-10 October 2010,Dept.of Physics, SSBN Degree and PG college, Anantapur, India.
11. **“Low Power Consumption LCD technology that meets our needs”** R.N.V.Ranga Reddy, **A. Venkatesulu**, K. Fakruddin and K. Neelakanteswar Reddy, presented in National Seminar on RENEWABLE ENERGY SOURSES AND OTHER RELATED TECHNOLOGIES, Organised at Sri Sant Gahanna Maharaja College of Engineering, Maharashtra, INDIA.
12. **“Optical studies of homologous series of Liquid Crystals”** R.N.V.Ranga Reddy, **A. Venkatesulu**, K. Fakruddin and K. Neelakanteswar Reddy, Presented in national seminar on Recent Trends in Optoelectronic Materials And Devices,21-22 November,2002, at Dept. of Physics, Sri Venkateswara University, Tirupathi, India