Current CV



Name & Designation	:	Prof. BYRU VENKATRAM REDDY Registrar & Professor of Physics Kakatiya University, Warangal - 506 009, Telangana, India Phone: +91 870 2461428 (O), +91 9440162740 (M) E-mail: bvreddy67@yahoo.com		L	
Father's and Mother's Name	:	Late Sri Ragha	va Reddy	& Late Smt. Laxmi Devi	
Date of Birth	:	20/10/1966			
Educational Qualifications	:	B.Sc (MPE) M. Sc: B. Ed: Ph. D: PGDCS:	1986 1989 1990 1992 2000	Osmania University Kakatiya University Kakatiya University Kakatiya University University of Hyderabad	I Div I Div II Div - I Div

Employment Details:

Designation	Place of work	From	То
Professor	Dept. of Physics, KU, Warangal	11/02/2018	Till date
Associate Professor	Dept. of Physics, KU, Warangal	11/02/2015	10/02/2018
Assistant Professor (AGP: Rs. 8000/-)	Dept. of Physics, KU, Warangal	11-02-2012	10/02/2015
Assistant Professor (AGP: Rs. 7000/-)	University P.G. College (KU), Godavarikhani, KU College of Engg., KU Campus; University Arts & Science College, Subedari & Dept. of Physics, UC, KU	11/02/2007	10-02-2012
Assistant Professor (AGP: Rs. 6000/-)	University P.G. College (KU), Godavarikhani, Karimnagar	11-02-2003	10-02-2007
Lecturer (Ad-hoc)	University P.G. College (KU), Godavarikhani, Karimnagar	05-09-1994	10-02-2003
Lecturer (Part-time)	C.K.M Arts & Science College, Warangal	28-08-1989	04-09-1994

Teaching:

Experience Papers taught <u>Research:</u> Experience

Papers taught	: Electronics, Molecular Spectroscopy and Quantum Mechanics
Research:	
Experience	: 33 years
Specialization	: Molecular Spectroscopy, DFT computations & Material Science
Publications	: 48 (International Journals: 40; National Journals: 08);
WoS & Sci Publications	: 36
Citations	: 406
	https://scholar.google.co.in/citations?user=Rkt0lRgAAAAJ&hl=en
h-index	:12
i10-index	: 14
No. of Ph.Ds awarded/Submitted	: 03/02
No. of candidates pursuing for Ph.D	: 01

: 33 years (PG: 26 years; UG: 7 years)

Books authored/edited	 : 1. Basic Electronics (Telugu Akademi, Hyderabad) 2. Physics of Semiconductor Devices (Telugu Akademi, Hyderabad) 3. Basic Instrumentation (Telugu Akademi, Hyderabad) (In Press)
Reviewer for Reputed International Journals	 ACS Omega (ACS publishers) Spectrochimica Acta A (Elsevier Publishers), Physical Chemistry Chemical Physics (RSC publishers) Molecular Physics (Taylor & Francis) Springer Nature Applied Sciences (Springer) J. Molecular Structure (Elsevier Publishers) J. Non-crystalline Solids (Elsevier Publishers), Canadian J. Chemistry (Canadian Science Publishing) Analytical Chemistry Letters (Taylor & Francis) Computational Biology and Chemistry (Elsevier Publishers) RSC Advances (RSC publishers) Journal of Biomolecular Structure & Dynamics (Taylor & Francis) Heliyon (Elsevier Publishers) Results in Chemistry (Elsevier) Scientific Reports (Springer) Food Chemistry (Elsevier) Indian J. Pure & Applied physics (CSIR, NISCAIR) DAE Solid State Physics Symposium Proceedings
Work-shops, Conferences, Seminars, etc attended	: 47; International (Abroad): 02; International (India) : 10 National: 35 (Annexure II – IV)
Research Projects completed	: 01 (Vibrational spectroscopic investigations and Density Functional Theory (DFT) calculations of some Biomolecules, funded by UGC of Rs. 11.45 lakh)
Foreign visits	 1) USA (Ohio State University, Columbus, Ohio) in 2011; Funded by UGC, New Delhi 2) USA (Southern Methodist University, Dallas, Texas) in 2018; Funded by ITS-SERB, DST, New Delhi
Achievements/Awards	 1) Recipient of "ISPA Life Time Achievement Award – 2022" from Indian Spectro Physics Association, Chennai, India 2) Recipient of "ISPA Dr. Gunasekaran Award - 2020" from Indian Spectro Physics Association, Chennai, India 3) Recognized as Outstanding Reviewer by Elsevier Publishers for J. Molecular Structure 4) Complementary Membership in ACS publishers 5) Identified Mentor of NITTTR, UGC, Govt. of India.
Academic Positions:	
(i) Member, BoS in Physics University of Madras, Chennai (01/9/2020) onwards	: Design of Curriculum
 (ii) Member, BoS in Electronics (UG) SR&BGNR Govt. Degree & PG College Khammam (Dec 2019 onwards) 	: Involving in curriculum design
(<i>iii</i>) <i>Member</i> , BoS in Physics Mahathma Gandhi Univ, Nalgonda (September 2019 onwards)	: Involving in curriculum design
(iv) <i>Member</i>, BoS in Physics (PG)Satavahana University, Karimanagar(July 2019 onwards)	: Involving in curriculum design
(<i>v</i>) <i>Member</i> , BoS in Environmental Science KU, Warangal (06/10/2016 – 05/10/201	
(<i>vi</i>) <i>Chairman</i> , BoS in Physics and Electron KU, Warangal (30/5/2015 – 07/6/2017)	ics : Introduced CBCS system, syllabi was revised & New papers were introduced

	<i>Member,</i> Syllabus Revision Committee for Applied Physics (UG Engineering Courses) KU, Warangal (2010-2018)	: Syllabus of Applied Physics for B.Tech was revised
(viii)	<i>Coordinator</i> , UGC SAP-DRS-II, Physics Dept, KU (09/2/2017 onwards)	: Coordinating with UGC cell, KU & UGC for utilization of grant for research and academics
(ix)	<i>Member,</i> BoS in Physics (PG) KU, Warangal (2013-15)	: Involving in curriculum design
(x)	<i>Member,</i> BoS in Physics & Electronics Chaitanya Degree College (Autonomous), Hanamkonda, Warangal (2007 - 2011)	: Curriculum and syllabi of Physics & Electronics were revised
(xi)	Member	: American Chemical Society (ACS)
(xii)	Life Member & Member, Executive Council	: Indian Spectro Physics Association (ISPA)
(xiii)	Life Member	: Laser & Spectroscopy Society of India (LASSI)
(xiv)	Life Member	: Indian Society of Atomic and Molecular Physics (ISAMP)
(xv)	Member	: Governing Body, Kendriya Vidyalaya, NTPC, Jyothinagar, Karimnagar Dist. (During 2008-2009)
(xvi)	Member	: College Planning and Development Council, Govt. Degree College, Godavarikhani, Karimnagar Dist. (During 2008-2009)
(xvü)	Resource Person, State level Pedagogical	: Lectures were given to JLs in Refresher Course Training Program, APIE (2007 -2008)
(xix)	<i>Executive Member & Seminar Secretary</i> GPPPPG, Godavarikhani; an NGO for Pollution Control & Environmental Protection (During 2000-2009)	: Organized number of workshops & Awareness programs in schools and colleges

Administrative Positions in Kakatiya University:

(i) Registrar	: Kakatiya University (03/8/2021 onwards)
(ii) Controller of Examinations (FAC)	: Kakatiya University (01/6/2021 – 24/6/2021)
(iii) Dean, Academic Audit	: Kakatiya University (03/8/2021 - 04/01/2022)
(iii) Addl. Controller of Exams (Conf. Scetio	n): Kakatiya University (18/9/2017 - 24/6/2021)
(iv) Director (I/c)	: Central Instrumentation Centre, KU (30/4/2020 – 04/01/2022)
(v) Head of the Department	: Department of Physics, KU (22/05/2019 to 21/5/2021)
(vi) Addl. Controller of Exams (UG Section)	: Kakatiya University (03/9/2012 – 31/8/2015)
(vii) Director	: University Hostels, KU (07/7/2011 – 12/9/2012)
(viii) Principal	: Univ P.G. College (KU), Godavarikhani (08/8/2008-18/8/2009)
(ix) Joint Director	: UPGC, Godavarikhani Hostels (1998-2001 & 2007-08)
(x) Coordinator	: Student Welfare and Placement Cell University P.G. College, Godavarikhani (KU), (2004-2005)
(xi) Program Officer	: NSS, Univ. P.G College, GDK (KU)

	Annexure - I Research Publications No. of Citations : 406; h-index: 12; i10 index: 14				
Year	S.No.	Title & Authors	Journal details	Impact Factor	
2022	48	Experimental and density functional theory study on structure, vibrational and molecular characteristics of 2-chloro-5- methylpyrimidine and 2,4-dichloro-5-methylpyrimidine <i>B. Sreenivasa, L. Ravindranatha, K. Srishailama,b, Jai Kishan Ojhac</i> <i>and B. Venkatram Reddy</i> *	Molecular Simulation https://doi.org/10.1080/08927022.20 22.2060967 (Taylor & Francis)	2.178	
2022	47	Barrier potential, Structure (monomer & dimer), Inter- & Intra- molecular interactions, Vibrational analysis, Fukui functions, MESP, NBO, UV and NMR analysis of pyridine-3-carboxylic acid using Spectroscopic and DFT approach <i>G. Ramesh and B. Venkatram Reddy</i> *	Polycyclic Aromatic Compounds http://dx.doi.org/10.1080/1040 6638.2022.2046614 (Taylor & Francis)	3.74	
2022	46	Synthesis, DFT computations, molecular docking studies and anticancer activity of 2-(4-fluorophenyl)-3-(5-methylisoxazol-3- yl)thiazolidin-4-one <i>G.Ramesh, B.Rathnakar, Ch.Narsaiah, N.Rameshwar, M.Srinivas,</i> <i>V.Namratha, G.Durgaiah, Y.Narsimha Reddy, B.Venkatram Reddy,</i> <i>M. Satyanarayana</i>	Chemical Data Collections 39 (2022) 100859 (Elsevier Publishers)	2.18	
2021	45	Synthesis, single-crystal X-ray diffraction, NLO and DFT studies of centrosymmetric 4-amino-3,5-dimethyl-1 <i>H</i> -pyrazolium citrate monohydrate salt <i>B. Radhika, J. Prashanth, Srinivas Basavoju, S. Jyothi and</i> <i>B. Venkatram Reddy</i> *	Molecular Physics doi.org/10.1080/00268976.20 21.2022797 (Taylor & Francis)	1.962	
2021	44	Theoretical (DFT) and experimental (FT-IR & FT Raman) approach to investigate the molecular geometry and vibrational properties of 2,5- and 2,6-dihydroxytoluenes <i>P. Venkata Ramana Rao, K. Srishailam^b</i> , B. Venkatram Reddy* , <i>G.</i> <i>Ramana Rao^b</i>	J. of Molecular Structure 1240 (2021) 130617 (Elsevier Publishers)	3.196	
2021	43	Synthesis, evaluation of molecular structure from torsional scans, study of vibrational and molecular characteristics using spectroscopic and DFT methods of some thiosemicarbazones and investigation of their anticancer activity <i>K. Srishailam, K. Ramaiah, K. Laxma Reddy, B. Venkatram Reddy*</i> , <i>G. Ramana Rao</i>	Chemical Papers, 75(7) (2021) 3635-3647 doi.org/10.1007/s11696-021 -01595-x (Springer)	2.097	
2021	42	Synthesis, antimicrobial activity and DFT studies of 4,5-dihydro-9- methoxy-4-(5-methylisoxazol-3-yl)benzo[f][1,4]oxazepin-3(2H)-one <i>G. Ramesh</i> , <i>K. Ramu</i> , <i>M. Srinivas</i> , <i>R. Haripriya</i> , <i>B. Venkatram</i> <i>Reddy</i> *	Materials Today: Proceedings (Elsevier Publishers) doi.org/10.1016/j.matpr. 2021.08.219	1.24	
2020	41	Synthesis of Sr1-xBaxBi2B2O7 glass ceramics: A study for structure and characterization using experimental techniques and DFT method <i>G. Padmaja, G. Devarajulu, B. Deva Prasad Raju, G.R. Turpu,</i> <i>K. Srishailam, B. Venkatram Reddy</i> *, <i>G. Pavan Kumar</i>	J. of Molecular Structure 1220 (2020) 128660 https://doi.org/10.1016/j.molstruc.2020.128660 (Elsevier Publishers)	3.196	
2020	40	Theoretical and experimental study of torsional potentials, molecular structure (monomer and dimer), vibrational analysis and molecular characteristics of some dimethyl bipyridines <i>L. Ravindranath, B. Venkatram Reddy</i> *	J. of Molecular Structure https://doi.org/10.1016/j.molstruc.2019.127089 1200 (2020) 127089 (Elsevier Publishers)	3.196	
2020	39	NMR & Electronic Spectra, NLO, FMO, NBO and Thermodynamic Properties of Pentachlorophenol: An Experimental and Theoretical Investigation <i>P. V. Ramana Rao, K. Srishailam, G. Ramesh, B. Venkatram Reddy*,</i> <i>G. Ramana Rao</i>	Asian J. of Chemistry 32(12) (2020) 3057-3062 (Asian Publication Corp.)	0.54	

2019	38	Investigation of torsional potentials, hindered rotation, molecular structure and vibrational properties of some biphenyl-carboxaldehydes using spectroscopic techniques and density functional formalism <i>K. Srishailam</i> , <i>B. Venkatram Reddy</i> *, <i>G. Ramana Rao</i>	J. of Molecular Structure 1196 (2019) 139-161 (Elsevier Publishers)	3.196
2019	37	Barrier potentials, molecular structure, force filed calculations and quantum chemical studies of some bipyridine di-carboxylic acids using the experimental and theoretical using (DFT, IVP) approach <i>Jyothi Prashanth, Ramaiah Konakanchi, Byru Venkatram Reddy</i> *	Molecular Simulation doi.org/10.1080/08927022.2019.1634807 (Taylor & Francis)	2.178
2019	36	Synthesis, crystal and molecular structure, and characterization of 2- ((2-aminopyridin-3-yl)methylene)-N-ethylhydrazinecarbothioamide using spectroscopic (1H and 13C NMR, FT-IR, FT-Raman, UVeVis) and DFT methods and evaluation of its anticancer activity <i>K. Ramaiah, K. Srishailam, K. Laxma Reddy, B. Venkatram Reddy*,</i> <i>G. Ramana Rao</i>	J. of Molecular Structure 1184 (2019) 405-417 (Elsevier Publishers)	3.196
2019	35	Structural and vibrational properties of pentabromophenol and pentafluorophenol: A spectroscopic investigation using density functional theory <i>P. Venkata Ramana Rao,K. Srishailam, L. Ravindranath,</i> B. Venkatram Reddy*, G. Ramana Rao	J. of Molecular Structure 1180 (2019) 665-675 (Elsevier Publishers)	3.196
2019	34	Experimental and theoretical determination of structural and vibrational properties of pentachlorophenol and pentachlorothiophenol <i>K. Srishailam, P. Venkata Ramana Rao, L. Ravindranath,</i> B. Venkatram Reddy*, <i>G. Ramana Rao</i>	J. of Molecular Structure 1178 (2019) 142-154 (Elsevier Publishers)	3.196
2019	33	Synthesis, spectroscopic, and DFT quantum chemical studies of 3- and 4-pyridyl-acetonitriles <i>P. Rajender Reddy, J. Prashanth, B. Prasanna, B. Venkatram Reddy</i> *	J. of Molecular Structure 1176 (2019) 447-460 (Elsevier Publishers)	3.196
2019	32	Vibrational spectroscopic (FT-IR, FT-Raman), anti-inflammatory, docking and molecular characteristic studies of Ni(II) complex of 2- aminonicotinaldehyde using theoretical and experimental methods <i>K. Ramaiah, J. Prashanth, J. Haribabu, E. Srikanth, B. Venkatram</i> <i>Reddy*, R. Karvembu, K. Laxma Reddy</i>	J. of Molecular Structure 1175 (2019) 769-781 (Elsevier Publishers)	3.196
2018	31	Molecular structure, vibrational analysis, hyperpolarizability and NBO analysis of 3-methyl-picolinic acid using SQM calculations <i>G. Ramesh, J. Prashanth, J. Laxman Naik, B. Venkatram Reddy</i> *	J. of Structural Chemistry Vol. 59, No.5 (2018) 1022-1031 (Springer Publishers)	1.071
2018	30	Synthesis, Structural, Biological Evaluation, Molecular Docking and DFT Studies of Co(II), Ni(II), Cu(II), Zn(II), Cd(II) and Hg(II) Complexes bearing Heterocyclic Thiosemicarbazone ligand <i>Ramaiah K, J. Haribabu, J. Prashanth, V. B. Nishtala, Ramachary M,</i> <i>Saikumar M, Durgaiah G, Ramasamy K, B. Venkatram Reddy,</i> <i>Narsimha Reddy Y, Laxma Reddy K*</i>	Appl Organometal Chem. 2018; e4415 (Wiley) https://doi.org/10.1002/aoc.4415	4.105
2018	29	Spectroscopic investigation on structure (monomer and dimer), molecular characteristics and comparative study on vibrational analysis of picolinic and isonicotinic acids using experimental and theoretical (DFT & IVP) methods <i>G. Ramesh, B. Venkatram Reddy</i> *	J. of Molecular Structure 1160 (2018) 271-292 (Elsevier Publishers)	3.196
2018	28	Study on structure, vibrational analysis and molecular characteristics of some halogen substituted azido-phenylethanones using FTIR spectra and DFT <i>J. Prashanth, B. Venkatram Reddy</i> *	J. of Molecular Structure 1155 (2018) 582-597 (Elsevier Publishers)	3.196

2018	27	Molecular structure and vibrational analysis of 2,5- pyridinedicarboxylic acid using experimental and theoretical methods <i>J. Laxman Naik and B. Venkatram Reddy</i> *	Materials Science and Engineering 360 (2018) 012028 (IOP Conf. Series)	0.51
2017	26	Synthesis, structural, spectroscopic, anti-cancer and molecular docking studies on novel 2-[(Anthracene-9-ylmethylene)amino]-2- methylpropane-1,3-diol using XRD, FTIR, NMR, UV-Vis spectra and DFT <i>P. Pavitha, J. Prashanth, G. Ramu, G. Ramesh, K.Mamatha,</i> B. Venkatram Reddy*	J. of Molecular Structure 1147 (2017) 406-426 (Elsevier Publishers)	3.196
2016	25	Investigation of torsional potentials, molecular structure, vibrational properties, molecular characteristics and NBO analysis of some bipyridines using experimental and theoretical tools <i>J. Prashanth</i> , <i>B. Venkatram Reddy</i> *, <i>G. Ramana Rao</i>	J. of Molecular Structure 1117 (2016) 79-104 (Elsevier Publishers)	3.196
2016	24	Molecular geometry, NBO analysis, Hyperpolarizability and HOMO- LUMO energies of 2-azido-1-phenylethanone using Quantum chemical calculations J. Prashanth, G. Ramesh, J. Laxman Naik, Jai Kishan Ojha, B. Venkatram Reddy *	Materials Today: Proceedings 3 (2016) 3761–3769 (Elsevier Publishers)	1.24
2016	23	Experimental and theoretical study of 3-methyl-4-nitrobenzoic acid using DFT and IVP methods <i>J. Prashanth, Jai Kishan Ojha, B. Venkatram Reddy*,G. Ramana Rao.</i>	Journal of Physics: Conference Series 759 (2016) 012057, pp 1-8. IOP Science Publishers	0.599
2015	22	Experimental (FTIR and FT-Raman) and theoretical investigation of some pyridine-dicarboxylic acids <i>J. Laxman Naik</i> , B. Venkatram Reddy* , <i>N. Prabavathi</i> .	J. of Molecular Structure 1100 (2015) 43-58 (Elsevier Publishers)	3.196
2015	21	Molecular Structure, vibrational spectra, natural bond orbital and thermo dynamic analysis of 3,6-dichloro-4-methylpyridazine and 3,6- dichloropyridazine-4-carboxylic acid by dft approach. <i>N. Prabavathi*, N. Senthil Nayaki, B. Venkatram Reddy</i>	Spectrochim. Acta A, 136 (2015) 1134-1148 (Elsevier Publishers)	4.098
2015	20	Molecular structure, vibrational analysis and first order hyperpolarizability of 4-methyl-3-nitrobenzoic acid using density functional theory J. Prashanth, G. Ramesh, J. Laxman Naik, Jai Kishan Ojha, B. Venkatram Reddy* , G.Ramana Rao	Optics and Photonics Journal 5 (2015) 91-107 (Scientific Research Publishers, USA)	0.761
2015	19	Molecular structure and vibrational analysis of 2,6-pyridine- dicarboxylic acid using experimental and theoretical methods <i>J. Laxman Naik, G. Ramesh and B. Venkatram Reddy</i> *	ICSEMF-2015 (e-book) 331-335	
2015	18	Vibrational analysis and Transferability of Force constants of 3-methyl pyridine-2-carboxylic acid using DFT and IVP methods <i>J. Laxman Naik, J. Prashanth and B. Venkatram Reddy</i> *	ICSEMF-2015 (e-book) 336-339	
2015	17	Spectroscopic study of 2-azido-1-phenylethanone using density functional theory (DFT) <i>J. Prashanth, B. Venkatram Reddy*, G. Ramana Rao</i>	ICSEMF-2015 (e-book) 340-343	
2013	16	Transferable valence force fields: the case of out-of-plane vibrations of some trimethoxybenzenes.J. Laxman Naik, B. Venkatram Reddy*, G. Ramana Rao	Conference Proceedings of AMST-2012, 416-422 (2013), Lap LAMBERT Academic Publishers	
2012	15	Vibrational analysis and Valence force field for nitrotoluenes, dimethylanilines and some substituted methylbenzenes. Jai Kishan Ojha, B. Venkatram Reddy , G. Ramana Rao*	Spectrochim. Acta A, 96 (2012) 632-643, (Elsevier Publishers).	4.098

2011	14	Vibrational analysis of some substituted methylbenzenes. Part II: Transferability of force constants - the case of tetra-, trimethyl- benzenes and nitroparatoluidine Jai Kishan Ojha, B. Venkatram Reddy , G. Ramana Rao*	AIP Conference Proceedings of International Conference: Optics-2011; 1391 (2011) 472 (AIP Publishers, USA)	
2008	13	Vibrational spectra and modified valence force field of N,N'-methylene- bisacrylamide. B. Venkatram Reddy, G. Ramana Rao*	Ind. J. of Pure & App. Phys. 46 (2008) 611 (NISCAIR, CSIR, New Delhi)	0.923
2007	12	Normal coordinate analysis of some di- and trimethoxy nitrobenzenes. <i>B. Venkatram Reddy</i> , <i>G. Ramana Rao</i> *	Acta Ciencia Indica, Vol.33, No.1 (2007) 27 (Pragathi Prakashan, Meerut)	
2007	11	Transferable valence force fields: the case of out-of-plane vibrations of dimethoxybenzenes. <i>B. Venkatram Reddy, G. Ramana Rao</i> *	Asian J. of Physics Vol.16, No.1 (2007) 29 (Anitha Publications, Ghaziabad).	
2006	10	Normal coordinate analysis of some fluorotoluenes. Jai Kishan Ojha, B. Venkatram Reddy , G. Ramana Rao*	Acta Ciencia Indica, Vol.32, No.4 (2006) 509 (Pragathi Prakashan, Meerut)	
2004	9	Vibrational analysis of mononitro substituted benzamides, benzaldehydes and toluenes: Part I – Vibrational spectra, normal coordinate analysis and transferability of force constants of nitrobenzamides, nitrobenzaldehydes and nitrotoluenes. <i>Md. Qayyum</i> , B. Venkatram Reddy , <i>G. Ramana Rao</i> *	Spectrochim. Acta A, 60 (2004) 279 (Elsevier Publishers)	4.098
2004	8	Vibrational analysis of mononitro substituted benzamides, benzaldehydes and toluenes: Part II – Transferability of valence force constants. <i>Md. Qayyum</i> , B. Venkatram Reddy , G. Ramana Rao *	Spectrochim. Acta A, 60 (2004) 291 (Elsevier Publishers).	4.098
2002	7	Normal coordinate treatment of some pyridines. B. Venkatram Reddy, G. Ramana Rao *	Indian J. of Physics 76B (4) (2002) 473 (Springer Publishers)	1.947
1996	6	Vibrational analysis of substituted anisoles: Part III – Normal coordinate analysis of 2,6-di- and penta-chloro anisoles. B. Venkatram Reddy, A. Pavan Kumar, G. Ramana Rao*	Asian J. of Physics 5 (1996) 193 (Anitha Publications, Ghaziabad).	
1994	5	Transferable valence force fields for substituted benzenes: Part I – Monohalogenated anisoles. B. Venkatram Reddy, G. Ramana Rao *	Vibrational Spectroscopy 6 (1994) 231 (Elsevier Publishers)	2.507
1994	4	Transferable valence force fields for substituted benzenes: Part II – Di- and Tri-methoxy benzenes. B. Venkatram Reddy, G. Ramana Rao*	Vibrational Spectroscopy 6 (1994) 251 (Elsevier Publishers)	2.507
1994	3	Transferable valence force fields for substituted benzenes Part III – Tri-substituted benzenes. B. Venkatram Reddy, G. Ramana Rao *	Vibrational Spectroscopy 6 (1994) 259 (Elsevier Publishers).	2.507
1992	2	 Vibrational analysis of substituted anilines, anisoles and anisidines: Part III – Further evidence for the transferability of valence force constants. B. Venkatram Reddy, D. Vijaya Kumar, G. Ramana Rao* 	Vibrational Spectroscopy 4 (1992) 67 (Elsevier Publishers).	2.507
1992	1	Normal Coordinate Analysis of out-of-plane vibrations of some fluoro- and chloro substituted anisoles. B. Venkatram Reddy , B. Laxmaiah, G. Ramana Rao*	Indian J. Pure & App. Phys. 30 (1992) 351 (NISCAIR, CSIR, New Delhi).	0.923

<u>ANNEXURE-II</u>

Work-shops, Conferences, etc organized

- 1. Coordinator, "**Two-day National Workshop on Physics of Materials and Molecules**" during 15-16 March, 2019 at Department of Physics, Kakatiya University, Warangal.
- 2. Coordinator, UGC-DAE CSR Two-day 'Awareness Workshop on Diffraction and other Characterization Techniques in Material Science' during 12-13 April, 2017 at Department of Physics, KU, Warangal.
- 3. Convener, **MIST-2009**, a 3 day Workshop on Management, Informatics, Science and Technology at Univ. P. G. College, Godavarikhani held during March 4 6, 2009.
- 4. Convener, Commerce Meet-2008 held on 15th Nov., 2008 at Univ. P. G. College, Godavarikhani.

<u>A N N E X U R E - III</u> List of Work-shops / Recharge / Training Programmes, etc attended

- Mentors Orientation Training Programme (Mentoring of Faculty of UGC)
 1-10 Feb., 2021 organized by National Institute of Technical Teachers Training and Research, UGC, Govt. of India, Chennai
- 2. One Day State level Workshop on Redesigning UG Physics Syllabus under Revised CBCS Curriculum 8th Feb., 2020 at Department of Physics, Govt. Degree College, Kamareddy, TS
- 3. UGC-DAE CSR Two-day Awareness Workshop on Diffraction and other Characterization Techniques in Material Science

12-13 April, 2017 at Department of Physics, Kakatiya University, Warangal.

- 4. Faculty Development Program (FDP) on "Signals, Systems and Transform techniques theory with MATLAB
 - 26-31 Dec., 2016 at E&ICT Academy, NIT, Warangal
- Sceice Academie's 82nd Refresher Course on Experimental Physics
 6-21 Dec., 2016 at Department of Physics, Kakatiya University, Warangal.
- 6. State level One-day Orientation Programme on CBCS Quality Enhancement and Sustenance 28th Sept., 2016, Pingle Govt. College for Women, Warangal
- National Workshop on Advanced Analytical and Molecular Techniques 30th Nov - 1st Dec. 2015, Advanced Analytical Lab, Andhra University, Vishakhapatnam
- 8. One-day Workshop on SPSS 22 Application 5th July, 2014, Dept. of Computer Science, Kakatiya University, Waranal
- 9. Two week ISTE Work-shop on Signals and Systems, organized by IIT, Kharagpur through NMECIT, MHRD, New Delhi.
 - 02-12 Jan., 2014, SVS Group of Institutions, Hanamkonda, Warangal
- Winter School on Recent Trends in Physics of Atoms, Molecules and Lasers 2011, Sponsored by UGC under Networking Program.
 9-31 Jan., 2011, Dept. of Physics, Banaras Hindu University, Varanasi.
- 11. One-week Workshop on Physics Practicals for Under Graduate Teachers 23-29 Dec., 2010, Dept. of Physics, Univ. Arts & Science College (KU), Warangal
- Two-day Work-shop on Nanoscience & Nanotechnology
 3rd & 4th Nov., 2010 at Dept. of Physics, Kakatiya University, Warangal.
- 67th Orientation Programme sponsored by UGC Academic Staff COllgege
 4-30 Oct, 2010, Academic Staff College, Osmania University, Hyderabad
- 14. Training program on Microprocessors, Microcontrollers and Digital Communications 13-17 July, 2010, Dept. of Physics, Kakatiya University, Warangal.
- 15. Training program on Microprocessors, Microcontrollers and Digital Communications 22-26 Feb., 2010, Dept. of Physics, Kakatiya University, Warangal.
- 16. Workshop on Nuclear energy & Applications
 21st & 22nd March, 2009 at National Institute of Technology, Warangal.
- National Work-shop on Recent Advances Trends in Physics
 3-4 March, 2008 at Dept. of Physics, Kakatiya University, Warangal.

- National Workshop on Recent Advances in Physics
 3rd & 4th Feb., 2006 at Dept. of Physics, Kakatiya University, Warangal.
- 19. Workshop on Physics Practicals 3 Sept., 2005, Dept. of Physics, KU & Chaitanya Degree College, Hanamkonda
- Two-day seminar on Revised Common core Syllabus for UG Courses
 5-6 August, 2005, Dept. of Physics, CKM Arts & Science College, Warangal
- Workshop on Microprocessors and Applications
 18-23 Jan., 1999 at Dept. of Physics, Kakatiya University., Warangal

 III SERC School in Atomic and Molecular Physics sponsored by DST, Govt. of India.
- 22. III SERC School in Atomic and Molecular Physics sponsored by DST, Govt. of India. *11-30 Dec., 1995 at CAT, Indore.*

$\underline{A N E X U R E - IV}$

List of International Conferences/Seminars, etc attended

- 1. International Conference on Physics of Advanced Materials and Molecules (ICPAMM) *30-31 Jan., 2020, Dr. Ambedkar Govt. College, Chennai, India*
- 27th Austin Symposium on Molecular structure and Dynamics @ Dallas (ASMD@D)
 3-5 March, 2018, Southern Methodist University, Dallas, Texas, USA
- 3. International Conference on Materials Research and Applications (ICMRA) *11-13 March, 2016, CMR Technical Campus, Hyderabad.*
- 4. International Conference on Sceince and Engineering of Materials for Future Needs 21-22 Dec., 2015, S.R & B.G.N.R Asts & Science College, Khammam, TS, India
- XXVII IUPAP International Conference on Computational Physics (CCP- 2015)
 2-5 Dec., 2015, Indian Institute of Technology (IIT), Guwahati
- 5th International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS-2014) 8-12 July, 2014, Dept. of Physics, Mar Ivanios College, Thrivandrum, Kerala
- 66th OSU International Symposium on Molecular Spectroscopy 20-24 June, 2011, Ohio State University, Columbus, Ohio, USA.
- Optics'11, an International Conference on light
 23-25 May, 2011, National Institute of Technology, Calicut, Kerala, India.
- 9. International Symposium on Advances in Physics
- 25 Feb., 2006, Dept. of Physics, NAS College (CCS Univ), Meerut, UP, India
- 10. International Conference on Perspectives in Vibrational Spectroscopy.

26-28 Feb., 2006 at Meerut University, Meerut.

 International Conference on Spectroscopy: Perspectives & Frontiers 3-5 Jan., 1996 at BARC, Bombay

$\underline{A N E X U R E - V}$

List of National Conferences/Seminars, etc attended

- National Conference on Recent Advances in Applied Nano Materials (RAANM 2018)
 16-17 Feb., 2018, Dept. of Physics, University Science College (OU), Saifabad, Hyderabad.
- Two Day National Seminar on Issues and Challenges of Higher Education in Newly Formed States
 26 27 Feb., 2015, Dept. of Economics, Mahathma Gandhi University, Nalgonda
- 3. A One Day National Conference on Emerging Areas of Research in Renewable Energy Resources and Electronics India

21st Feb., 2015, Dept. of Physics, Mahathma Gandhi University, Nalgonda

- 4. Two-day National seminar on Recent Advances in Physics,
- 6-7, Nov., 2014, Dept. of Physics, Kakatiya University, Warangal
- National Conference on Advanced Materials & Technologies 19-21 Nov., 2012, Kakatiya University, Warangal.

- 6. Two Day National Seminar on Recent Trends in Solid State Physics 13-14 Feb., 2012, Kakatiya University, Warangal.
- 7. National Conference on Current Trends in Condensed Matter Research 20-22 Sept., 2004 at Univ. Arts & Science College, Warangal.
- 8. National Seminar on Current Trends in Physics 12-13 Feb., 2004 at Dept. of Physics, Kakatiya University., Warangal.
- 9. XIII National Conference on Atomic and Molecular Physics 16-20 Jan., 2001 at IACS, Kolkata.
- 10. National Conference on Recent Trends in Vibrational Spectroscopy 26-28 Feb., 1996 at Meerut College (Meerut Univ.), Meerut
- 11. National Conference on Current Trends in Atomic and Moilecular Physics 21-23 Dec., 1993 at BARC, Bombay.
- 12. IX National Conference on Atomic and Molecular Physics
- 14-18 Dec., 1992 at BARC, Bombay.
- 13. Symposium on Molecular Spectroscopy 9th & 10th May., 1992 at M.M. College (Meerut Univ.) Modinagar.
 14. National Seminar on Molecular Spectroscopy
 - 15-17 March., 1991 at Banaras Hindu University, Varanasi.

<u>ANNEXURE-VI</u>

List of Invited Talks / Popular Lectures/ Chaired Sessions , etc given:

- 24. Invited Talk on "Experimental and theoretical study of molecular structure and vibrational characteristics of some 4-phenyl phenols" at NVCRAMS – 2021 on 8th Oct., 2021 organized by St. Peter Institute of Education & Research, Chennai.
- 23. Invited Talk on "Synthesis, molecular structure from torsional scans, study of vibrational and molecular characteristics using spectroscopic and DFT methods of some thiosemicarbazones and investigation of their anticancer activity" at International Conference on Physics of Emerging Materials and Molecules (ICPEMM-2021)" during 4-5 March 2021 organized by Sri Vidya Mandir Arts & Science College (Autonomous), Uthangarai, TN.
- 22. Key note address on "*Importance of Physics & Success stories of Great Physicists*" at **Three day Webinar on Knowledge Prism during 29th – 31 Dec., 2020** organized by TTWRCDC, Jangaon.
- Invited Talk on "Importance of Physics in Engineering Physics" at Induction Program for Engineering Students on 16th & 17th Dec., 2020 organized by KU College for Engineering & Technology for Women, KU Campus, Warangal – 506009.
- 20. Keynote address on "*Nano Science and Photonics*" at **Webinar on Fundamentals of Photonics and Nano** Science for UG students on 23rd July, 2020 organized by Govt. degree College, Luxettipet, Mancherial Dist, TS.
- 19. Invited Talk on 'Semiconductor Devices and Logic Circuits'at One Day State level Workshop on Low Cost Models with Simulations in Undergraduate Physics Practicals 7th Mar., 2020 at Department of Physics, Govt. Degree College (Autonomous), Siddipet, TS
- 18. Invited Talk on 'National Education Policy: Design of Physics component by UGC and TSCHE A review' at One Day State level Workshop on Redesigning UG Physics Syllabus under Revised CBCS Curriculum 8th Feb., 2020 at Department of Physics, Govt. Degree College, Kamareddy, TS
- 17. Invited Talk on 'Spectroscopic study for structure, vibrational analysis and characteristics of some dimethylbipyridines and biphenyl-carboxaldehydes using experimental and theoretical methods' at International Conference on Physics of Advanced Materials and Molecules (ICPAMM) 30-31 an., 2020 at Dr. Ambedkar Govt. College, Chennai, India
- 16. Invited Talk on 'Spectroscopic study for structure, vibrational analysis and characteristics of some biomolecules using experimental and theoretical methods' at **Two-day National Workshop on Physics of Materials and Molecules** 15-16 March, 2019, Department of Physics, Kakatiya University, Warangal

- 15. Invited talk on 'Raman Scattering and Applications' at IAPT sponsored One-day workshop on Physics for Creativity and Innovation - 2019 (PCI-19) 2nd March 2019, Dept. of Physics, SRR Govt. Arts & Science College, Karimnagar
- 14. Invited Talk on '*Characteristics and Applications of Operational amplifiers*' at **One-day workshop on Emerging Trends in Electronics and Instrumentation** 22nd Feb., 2019, Dept. of Electronics, Acharya Nagarjuna University, Guntur
- 13. Invited Talk on *'Cathode Ray Oscilloscope and Applications'* at IAPT One-day Workshop on Physics Practicals 9th April, 2018, Kakatiya Government Degree College, Hanamkonda, Warangal.
- 12. Invited talk on 'Operational Amplifiers, Characteristics and Applications' 27th March, 2018 at Department of Physics, South Campus, Telangana University, Nizamabad
- 11. Chaired the Lecture Sessions at **"Science Academies' Two-week Refresher Course in Experimental Physics"** 6-21ec., 2016 at Dept. of Physics, KU, Wgl.
- 10. Invited Talk on '*CBCS Quality Enhancement and Sustenance*' at "**State level One day Orientation Programme** on CBCS" on 21st Sept., 2016, at Govt. Pingle College for Women, Waddepalli, Warangal.
- Invited Talk on 'Success Stories of Great Scientists' at "INSPIRE 2015" 24th Jan., 2016, Kakatiya Government Degree College, Hanamkonda.
- 8. Invited Talk on 'Semiconductor Devices & Logic Circuits' at "Refresher Course in Physics for Junior Lecturers" on 9th Dec., 2015, Govt. Junior College, Hanamkonda.
- Invited Talk on '*Reforms in Examination System for Transparency, Accountability and Accuracy*' at "Two Day National Seminar on Issues and Challenges of Higher Education in Newly Formed States" on 27th Feb., 2015 at Dept. of Economics, Mahathma Gandhi University, Nalgonda.
- 6. Chaired the Session at **"Two Day National Seminar on Issues and Challenges of Higher Education in Newly Formed States"** on 27th Feb., 2015 at Dept. of Economics, Mahathma Gandhi University, Nalgonda.
- Invited Talk on '*Renewable Energy Resources*' at "One day National Conference on Emerging Areas of Research in Renewable Energy Resources and Electronics in India" 21st Feb., 2015, Dept. of Physics, Mahathma Gandhi University, Nalgonda.
- 4. Invited Talk on '*Alternate Energy Resources*' at **"INSPIRE 2014"** 4th Nov., 2014, Kakatiya Government Degree College, Hanamkonda.
- Invited Talk on 'Physics Practicals for UG Teachers'
 23-29 Dec., 2010, Dept. of Physics, Univ. Arts & Science College, Warangal.
- 2. Invited Talk on '*Mechanics of rigid bodies*' at **"Refresher course for UG Physics Teachers"** 22nd Oct., 2010, Dept. of Physics, Kakatiya University, Warangal.
- 1. Invited Talk on '*Communication Systems*' at **"Refresher course for Junior Lecturers"** 16th Oct, 2010, Bala Vikasa, Fathima Nagar, Kazipet, Warangal.