

CURRICULUM VITAE — KADALI CHAITANYA



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EDUCATION AND RESEARCH EXPERIENCE

- JAN 2011 DOCTOR OF PHILOSOPHY, DEPARTMENT OF PHYSICS, ANDHRA UNIVERSITY, VISAKHAPATNAM, ANDHRA PRADESH, INDIA.
- APRIL 2005 M.SC PHYSICS, DEPARTMENT OF PHYSICS, ANDHRA UNIVERSITY, VISAKHAPATNAM, ANDHRA PRADESH, INDIA.
- APRIL 2002 B.SC INSTRUMENTATION, ANDHRA UNIVERSITY, VISAKHAPATNAM, ANDHRA PRADESH, INDIA.

OTHER DIPLOMA'S

- JUNE 2011 PG DIPLOMA IN ENVIRONMENTAL STUDIES, ANDHRA UNIVERSITY, VISAKHAPATNAM, ANDHRA PRADESH, INDIA.
- APRIL 2011 PG DIPLOMA IN COMPUTER APPLICATIONS, PERMITTED BY DEPT. OF EMPLOYMENT & TRAINING, GOVT. OF ANDHRA PRADESH, INDIA.

RESEARCH INTEREST

WE USE THE INFRARED ABSORPTION SPECTROSCOPY AND RAMAN SCATTERING SPECTROSCOPY TO STUDY THE MOLECULAR STRUCTURE OF BIOACTIVE COMPOUNDS AND THEIR DERIVATIVES. AS THE SUPPLEMENTARY METHODS WE APPLY NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY. TO INTERPRET OBTAINED EXPERIMENTAL RESULTS WE CARRY OUT THE QUANTUM-CHEMICAL CALCULATIONS AND MOLECULAR MODELING.

INSTRUMENTS HANDLED

2006 – 2012 FT-IR SPECTROPHOTOMETER (SHIMADZU FT-IR 8700) USED TO IDENTIFICATION OF ORGANIC COMPOUNDS AND SECONDARY STRUCTURES OF PROTEINS

UV-VIS SPECTROPHOTOMETER (SHIMADZU UV 1600) USED TO STUDY THE QUANTITATIVE ANALYSIS OF PHARMA COMPOUNDS, DENATURATION STUDIES, COLOUR MATCHING MEASUREMENTS

EMPLOYMENT

2010 – PRESENT ASSISTANT PROFESSOR, DEPARTMENT OF PHYSICS, VISAKHA INSTITUTE OF ENGG & TECHNOLOGY, JNTUK, VISAKHAPATNAM.

2008 - 2010 TEACHING ASSOCIATE, DEPARTMENT OF GEOLOGY, ANDHRA UNIVERSITY, VISAKHAPATNAM.

AWARDS AND GRANTS

2008 – 2010 TEACHING ASSOCIATE FELLOWSHIP, DEPARTMENT OF GEOLOGY, ANDHRA UNIVERSITY, VISAKHAPATNAM.

PUBLICATIONS

1. VIBRATIONAL ASSIGNMENT OF THE SPECTRAL DATA AND THERMODYNAMIC PROPERTIES OF 2CHLORO4FLUOROBENZOPHENONE USING DFT QUANTUM CHEMICAL CALCULATIONS. (PUBLISHED) K. CHAITANYA, C.SANTHAMMA, B. MARK HERON, CHRISTOPHER D. GABBUTT, ALICIA C. INSTONE VIBRATIONAL SPECTROSCOPY, VOLUME 57, ISSUE 1, 16 SEPTEMBER 2011, PAGES 35-41 (IMPACT FACTOR : 2.08)
2. MOLECULAR STRUCTURE, VIBRATIONAL SPECTROSCOPIC (FT-IR, FT-RAMAN),UV-VIS SPECTRA, FIRST ORDER HYPERPOLARIZABILITY, NBO ANALYSIS, HOMO AND LUMO ANALYSIS, THERMODYNAMIC PROPERTIES OF BENZOPHENONE 2,4-DICARBOXYLIC ACID BY AB INITIO HF AND DENSITY FUNCTIONAL METHOD. (PUBLISHED) K.CHAITANYA, SPECTROCHIMICA ACTA PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY (2012), PP. 159-173 (IMPACT FACTOR : 1.77)
3. MOLECULAR STRUCTURE, VIBRATIONAL SPECTROSCOPIC (FT-IR, FT-RAMAN), FIRST ORDER HYPERPOLARIZABILITY, NBO ANALYSIS, HOMO AND LUMO ANALYSIS, THERMODYNAMIC PROPERTIES OF 3, 5-DIMETHYLBENZOPHENONE BY AB INITIO HF AND DENSITY FUNCTIONAL METHOD. (PUBLISHED) K. CHAITANYA, C. SANTHAMMA, K. V. PRASAD, V.VEERAAIAH, J. AT. MOL. SCI. 3 (2012), PP. 1-22.
4. DENSITY FUNCTIONAL THEORY STUDY, FT-IR AND FT-RAMAN SPECTRA AND SQM FORCE FIELD CALCULATION FOR VIBRATIONAL ANALYSIS OF 1, 3-BIS (HYDROXYMETHYL) BENZIMIDAZOLIN-2-ONE (SUBMITTED TO JOURNAL). LYNNETTE JOSEPH, D.SAJAN , K. CHAITANYA , H. C. DEVARAJEGOWDA, JAYAKUMARY ISAC
5. MOLECULAR STRUCTURE, ELECTRONIC ABSORPTION AND VIBRATIONAL SPECTRAL ANALYSIS OF 2-HYDROXY -4-METHOXYBENZOPHENONE: A SCALED QUANTUM MECHANICAL FORCE FIELD STUDY (SUBMITTED TO JOURNAL). LYNNETTE JOSEPH, D.SAJAN , K. CHAITANYA,T. SUTHAN, N.P.RAJESH, JAYAKUMARY ISAC
6. THREE PHOTON ABSORPTION AND VIBRATIONAL SPECTROSCOPIC STUDIES OF 2-METHYLAMINO-5-CHLOROBENZOPHENONE (SUBMITTED TO JOURNAL). D.SAJAN ,K. CHAITANYA, B.S ARUN SASI,K. SAFAKATH, REJI PHILIP ,T. SUTHAN, N.P.RAJESH
7. SYNTHESIS, CRYSTAL GROWTH, THERMAL AND SCALED QUANTUM CHEMICAL STUDIES OF THE STRUCTURAL AND VIBRATIONAL SPECTRA OF 1- (4-AMINOPHENYL)-3-(3, 4 -DIMETHOXYPHENYL)-2-PROPEN-1- ONE (WILL SUBMIT TO JOURNAL). LYNNETTE JOSEPH, D.SAJAN, VENKATARAYA SHETTIGAR ,K. CHAITANYA, ,NEERAJ MISRA, TOM SUNDIUS, I. NE`MEC
8. VIBARTIONAL AND ELECTRONIC ABSORPTION SPECTRAL STUDIES OF 5-AMINO-1-(4-BROMOPHENYL)-3-PHENYL-1-H-PYRAZOLE (SUBMITTED TO SPECTROCHIMICA ACTA - SAA-S-12-00146-1). M. V. S. PRASAD, KADALI CHAITANY , N.UDAYA SRI , V.VEERAAIAH
9. EXPERIMENTAL (FT-IR,FT-RAMAN AND UV-VIS SPECTRA) AND DENSITY FUNCTIONAL THEORY CALCULATIONS OF DIETHYL 1H-PYRAZOLE-3,5-DICARBOXYLATE (SUBMITTED TO JOURNAL OF MOLECULAR STRUCTURE- ACCEPTED). (IMPACT FACTOR : 1.599) N.UDAYA SRI , KADALI CHAITANYA , M. V. S. PRASAD, V.VEERAAIAH, A.VEERAAIAH

10. VIBRATIONAL EXPERIMENTAL (FT-IR, FT-RAMAN AND UV-VIS ABSORPTION SPECTRA) AND THEORETICAL (HOMO, LUMO AND NBO) STUDY OF 7-HYDROXY-4-PHENYLCOUMARIN AND 5,7-DIHYDROXY-4-PHENYLCOUMARIN (SUBMITTED TO JOURNAL)
M. V. S. PRASAD, KADALI CHAITANYA , N.UDAYA SRI, V.VEERAAIAH , A.VEERAAIAH
11. VIBRATIONAL AND ELECTRONIC ABSORPTION SPECTRAL STUDIES OF 2-CHLORO-3-QUINOLINECARBOXALDEHYDE (SUBMITTED TO COMPTES RENDUS CHIMIE- CRCHIMIE-D-12-00030)
M. V. S. PRASAD , KADALI CHAITANYA, N.UDAYA SRI , V.VEERAAIAH, A.VEERAAIAH.
12. MOLECULAR STRUCTURE, VIBRATIONAL SPECTROSCOPIC (FT-IR, FT-RAMAN),UV-VIS SPECTRA, FIRST ORDER HYPERPOLARIZABILITY, NBO ANALYSIS, HOMO AND LUMO ANALYSIS, THERMODYNAMIC PROPERTIES OF 2,6-DICHLOROPYRAZINE BY AB INITIO HF AND DENSITY FUNCTIONAL METHOD (ACCEPTED J. AT. MOL. SCI.).
M. V. S. PRASAD, N.UDAYA SRI , A.VEERAAIAH, V.VEERAAIAH, K.CHAITANYA
13. EXPERIMENTAL (FT-IR, FT-RAMAN AND UV-VIS SPECTRA) AND DENSITY FUNCTIONAL THEORY CALCULATIONS OF 3-CYANO-4-METHYLCOUMARIN (SUBMITTED TO SPECTROCHIMICA ACTA).
N.UDAYA SRI, K.CHAITANYA , M.V.S.PRASAD, V.VEERAAIAH, A.VEERAAIAH.
14. "VIBRATIONAL AND ELECTRONIC PROPERTIES OF 2-(BROMOACETYL)BENZO(B)FURAN - AN EXPERIMENTAL AND THEORETICAL STUDY (SUBMITTED TO VIBRATIONAL SPECTROSCOPY).
A.VEERAAIAH, K.CHAITANYA , M.V.S.PRASAD, V.VEERAAIAH, N.UDAYA SRI
15. VIBRATIONAL AND ELECTRONIC SPECTRA OF 5-ACETYLRACIL USING DFT CALCULATIONS (SUBMITTED TO SPECTROCHIMICA ACTA ACCEPTED) (IMPACT FACTOR 1.77)
A.VEERAAIAH, KADALI CHAITANYA, V.VEERAAIAH, M.V.S.PRASAD, N.UDAYA SRI
16. VIBRATIONAL AND ELECTRONIC ABSORPTION SPECTRA OF (Z)-2-(4-NITROBENZYLIDENE)-1-BENZOFURAN-3(2H)-ONE (SUBMITTED TO JOURNAL OF MOLECULAR STRUCTURE)
A.VEERAAIAH, K. ANAND SOLOMON, G.GOPI KRISHNA, J. SATAYANARAYANA REDDY, V.VEERAAIAH, K. CHAITANYA* -ACCEPTED). (IMPACT FACTOR : 1.599)

CONFERENCES

1. PRESENTED A PAPER ON "FACTOR GROUP ANALYSIS ON SOME BENZOPHENONE DERIVATIVES" IN NATIONAL SYMPOSIUM ON ATOMIC, MOLECULAR AND LASER PHYSICS (CONDUCTED BY LASSI-2007) HELD AT THE DEPARTMENT OF PHYSICS, BANARAS HINDU UNIVERSITY, VARANASI.
2. PRESENTED A PAPER ON "ABSORPTION AND FLUORESCENCE SPECTRA OF 9, 10-DIPHENYLANTHRACENE" IN NATIONAL SEMINAR ON RECENT ADVANCES IN PHYSICS (NCRAP 2008) HELD AT THE DEPARTMENT OF PHYSICS, PACHIAYAPPAI'S COLLEGE, CHENNAI.

TEACHING EXPERIENCE

- AT ANDHRA UNIVERSITY (2008 – 2010). 12 HR/WEEK

"PHYSICS I" (MECHANICS) SEMESTER I

"PHYSICS III" (OPTICS) SEMESTER III

"PHYSICS IV" (EM THEORY) SEMESTER IV

- TEACHING EXPERIENCE AT VISAKHA INSTITUTE OF ENGG @ TECH (2010 – STILL). 18HR/WEEK

“PHYSICS I ” (APPLIED PHYSICS-I) SEMESTER I

“PHYSICS II” (APPLIED PHYSICS-II) SEMESTER II
ENGINEERING PHYSICS LAB – I AND II

PEER-REVIEW ACTIVITIES

1. JOURNAL REVIEWER FOR JOURNAL OF MOLECULAR STRUCTURE

2. JOURNAL REVIEWER FOR INDIAN JOURNAL OF PURE AND APPLIED PHYSICS