

Name	Dr. N. RAMESH BABU			
Contact (office)	Professor in Physics & Administrative Officer Department of Science and Humanities M.I.E.T Engineering College Trichy.			
Email	nrbmiet@gmail.com			
Educational Qualifications	DEGREE	EDUCATIONAL INSTITUTION	BOARD/ UNIVERSITY	YEAR OF PASSING
	Ph.D., (Physics)	Annamalai University, Annamalai Nagar	Annamalai University	2015
	M.Phil., (Physics)	National College, Trichy	Bharathidasan University	1999
	M.Sc., (Physics)	Jamal Mohamed College, Trichy	Bharathidasan University	1989
	B.Sc., (Physics)	Bishop Heber College, Trichy	Bharathidasan University	1986
Professional Career Profile	Organization	Designation	Date of Joining	Duration of work
	M.I.E.T. Polytechnic College	Lecturer	05/06/91	13/02/01
	M.I.E.T. Engineering College	Lecturer	14/02/01	07/12/03
	M.I.E.T. Engineering College	Assistant Professor	08/12/03	30/11/11
	M.I.E.T. Engineering College	Professor	01/12/11	Till Date
Awards & Recognitions	----			
Membership in Professional Bodies	ISTE Member			
Academic Areas of Interest	Structural and Vibrational Spectroscopy.			
Administrative Capabilities	Having capability in all kinds of Administrative works.			

LIST OF PUBLICATIONS

1. H. Saleem, Y. Erdogdu, S. Subashchandrabose, V. Thanikachalam, J. Jayabharathi and **N. Ramesh Babu**, "Structural and vibrational studies on (E)-2-(2-hydroxy benzyliden amino)-3-phenyl propionic acid using experimental and DFT method", Journal of Molecular Structure 1030(2012) 157-167.
2. **N. Ramesh Babu**, S. Subashchandrabose, M. Syed Ali Padusha, H. Saleem and Y. Erdogdu, "Synthesis and Spectral Characterization of hydrazone derivative of furfural using experimental and DFT methods", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 120 (2014) 314-322.
3. **N. Ramesh Babu**, S. Subashchandrabose, M. Syed Ali Padusha and H. Saleem, "Structural and Vibrational studies on (E)-1-(4-methoxybenzylidene) Semicarbazide (MBSC) using experimental and DFT methods", Indian Journal of applied research volume: 4, Issue: 4, Apr (2014) 01-06.
4. **N. Ramesh Babu**, S. Subashchandrabose, M. Syed Ali Padusha, H. Saleem, V. Manivannan and Y. Erdogdu, "Synthesis and Structural Characterization of (E)-N'-((Pyridin-2-yl) methylene) benzohydrazide by X-ray diffraction FT-IR, FT-Raman and DFT methods", Journal of Molecular Structure 1072 (2014) 84-93.
5. H. Saleem, S. Subashchandrabose, **N. Ramesh Babu** and M. Syed Ali Padusha, "Vibrational Spectroscopy investigation and density functional theory calculations on (E)-N'-(4-methoxybenzylidene) benzohydrazide", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 143 (2015) 230-241.
6. S. Subashchandrabose, **N. Ramesh Babu**, H. Saleem and M. Syed Ali Padusha, "Vibrational Studies on (E)-1-((pyridine-2-yl) methylene) semicarbazide using experimental and theoretical method", Journal of Molecular Structure 1094 (2015) 254-263.

7. **N. Ramesh Babu**, H. Saleem, S. Subashchandrabose, M. Syed Ali Padusha and S. Bharanidharan, "Structural and vibrational studies on 1-(5-methyl-[1, 3, 4] thiadiazol-2-yl)-pyrrolidin-2-ol", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 152 (2016) 252-261.
8. D. Sumathi, H. Saleem, V. Thanikachalam, **N. Ramesh Babu** and S. Bharanidharan, "Vibrational Spectroscopy (FT-IR, FT-Raman and UV) studies of E-[1-Methyl-2,6-diphenyl-3-(propan-2-yl) piperidin-4-ylidene]amino-3-methylbenzoate] using DFT method", *International Journal of Scientific research* Vol.5, issue 03 (2016) 09-28.
9. D. Sumathi, H. Saleem, S. Srinivasan, **N. Ramesh Babu** and D. Usha, "Vibrational, Ultra Violet, Natural Bond Orbital analysis of E-[1-3-methylthienyl) -5- Phenyl-2, 4- Pentadiene-3-one] using Quantum Mechanical Computations and Experimental Spectra", *Journal of new developments in Chemistry* (2016) DOI:10. 14302/Issn. 2377. 2549. Jndc. 16-1119.
10. S. Bharanidharan, H. Saleem, S. Subashchandrabose, M. Suresh and **N. Ramesh Babu**, "FT-IR, FT-Raman and UV-Visible Spectral Analysis on (E)-N'-(thiophen-2-ylmethylene) Nicotinothiazide", *Archives in Chemical research* Vol.1 No.1:7 (2017) 01-14.
11. M. Shahul Hameed, J. Joseph Princice, **N. Ramesh Babu** and A. Arunachalam, "Effect of silver doping on optical properties of nanoflower ZnO thin films prepared by spray pyrolysis technique", *Journal of Material Science : Materials in Electronics* (2017) DOI: 10.1007/s10854-017-6592-4.
12. M. Shahul Hameed, J. Joseph Princice, **N. Ramesh Babu**, S. Syed Zahirullah, Sampat G. Deshmukh, and A. Arunachalam, "Morphology-controllable of Sn doped ZnO nanorods prepared by spray pyrolysis for transparent electrode application", *AIP Proceedings*, 020001 (2018), <https://doi.org/10.1063/1.5032796>.

PAPERS PRESENTED IN NATIONAL SEMINARS

1. Vibrational spectroscopic studies on 2,5-BIS (2-Thienylmethylene) cyclopentanone using experimental and DFT methods, **N. Ramesh Babu**, S. Subashchandrabose, H. Saleem, S. Srinivasan, and AN. Palaniyappan, National seminar on recent trends in synthetic methods and chemistry of natural products, Dept. of Chemistry, Annamalai University, Annamalainagar, 14th -15th October 2011 (SMNP-2011).
2. Spectral Investigation of 5-(4¹-Methylthiophency-1-Pyeny-2-4-pentadiene-3-one using FT-Raman, FT-IR, UV and DFT method, **N. Ramesh Babu**, H. Saleem, S. Srinivasan and S. Subashchandrabose, National conference on advantages in materials science, Dept. of Physics, Annamalai University, Annamalainagar, 1st – 2nd March, 2012 (NCAMS – 2012).

POSTER PRESENTATION IN INTERNATIONAL WORKSHOP/ CONFERENCE

1. **N. Ramesh Babu**, S. Bharanidharan, H. Saleem, A. Nathiya and S. Subashchandrabose, FT- IR, FT-Raman and Scaled Quantum Chemical studies of the molecular structure, Homo-Lumo, NBO Analysis of "(E)-1-(4-methoxybenzylidene) semicarbazide, Seventh Indo-US Workshop on Mathematical Chemistry, Jointly organized by PRIST University, Thanjavur, India and University of Minnesota Duluth, Minnesota, U.S.A., 4th - 6th December 2012.
2. **N. Ramesh Babu**, H. Saleem, S. Subashchandrabose, S. Bharanidharan, A. Nathiya and FT-Raman, FT-IR, UV Spectral Studies and Total Energy Distribution Aided by DFT Analysis (E)-1-((furan -2-yl) methylene)-2-(1-phenylriny) hydrazide. Seventh Indo-US Workshop on Mathematical Chemistry, Jointly organized by PRIST University, Thanjavur, India and University of Minnesota Duluth, Minnesota, U.S.A., 4th - 6th December 2012.

3. **N. Ramesh Babu**, H. Saleem, S. Bharanidharan, S. Subashchandrabose and A. Nathiya, Theoretical Investigation of the Molecular Structure, Vibrational Spectra (FT-IR and FT-Raman), Homo-Lumo and NBO studies on (E)-N'-((Pyridin-2-yl) methylene) benzohydrazide. Seventh Indo-US Workshop on Mathematical Chemistry, Jointly organized by PRIST University, Thanjavur, India and University of Minnesota Duluth, Minnesota, U.S.A., 4th - 6th December 2012.
4. **N. Ramesh Babu**, S. Subashchandrabose, H. Saleem, S. Bharanidharan and A. Nathiya, Vibrational Spectra (FT-IR and FT-Raman), Electronic Spectra and Scaled Quantum Chemical Studies of (E)-1-((Pyridin-2-yl) methylene) semicarbazide. Seventh Indo-US Workshop on Mathematical Chemistry, Jointly organized by PRIST University, Thanjavur, India and University of Minnesota Duluth, Minnesota, U.S.A., 4th - 6th December 2012.
5. **N. Ramesh Babu**, A. Nathiya, H. Saleem, S. Subashchandrabose and S. Bharanidharan, Vibrational Spectroscopic Studies, Homo-Lumo, NBO analysis and thermodynamic Functions of (E)-N'-(4-methoxybenzylidene) benzohydrazide using density functional Theory method, Seventh Indo-US Workshop on Mathematical Chemistry, Jointly organized by PRIST University, Thanjavur, India and University of Minnesota Duluth, Minnesota, U.S.A., 4th - 6th December 2012
6. **N. Ramesh Babu**, S. Subashchandrabose and H. Saleem, Structural and Vibrational studies on "1-(5-methyl-[1, 3, 4] thiadiazol-2-yl)- Pyrrolidin- 2-ol, International conference on Chemical and Environmental Research (ICCER-2014), Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamilnadu, 11th – 12th, March 2014.