

CURRICULUM VITAE

1. Name : **Dr. NAGESWARA RAO GOLLAPALLI**
2. Father's Name : **NARASAI AH**
3. Date of birth : **04 - 09 - 1957**
4. Present position & Address : **Professor, Dept. of Inorganic & Analytical Chemistry,
Andhra University, VISAKHAPATNAM-530003, INDIA**

5. Educational Qualifications:

Course	Name of the University	Year of Passing	Division	% of Marks	Subjects Taken
B.Sc	Andhra University	1978	I	68.7	Chemistry, Maths & Physics
M.Sc	-do-	1981	I	68.5	Inorganic Chemistry
M.Phil.	-do-	1985	I	69.8	Bio-inorganic Chemistry
Ph.D.	-do-	1991			Complex equilibria of biological importance in aquo-organic media - Computer augmented modeling studies

6. Research experience : **Since 1984**

7. Teaching experience : **Since 1985 for M. Sc. Students in the subjects of Inorganic Chemistry, Bio-inorganic Chemistry, Organometallic Chemistry, Instrumental methods of Analysis**

8. Publications : Papers published = **149**
Other publications = **18**
Conferences attended = **65**
Workshops attended = **7**
Radio talks = **10**

9. Other achievements : i) **Dr Sarvepalli Radhakrishnan Award-Best Academician of the year 2008**
ii) **Best Researcher award 2000 by Andhra University**
iii) **Post-doctoral Research Fellow (1998-99), Univ. of Durban-Westville, Durban, South Africa**
iv) **Biotechnology National Associate (1990-91) Indian Institute of Science, Bangalore**
v) **Awardee of merit certificate for paper presentation (Convention of Chemists, 1985)**

10. Projects handled : i) **UGC minor research scheme (1991 - 92)**
ii) **DST scheme for Young Scientists (1992-94)**
iii) **DOD Project on "Predictive models on Fish population in North Andhra Coast using Artificial Neural Network (1998 – 2004)**

11. Administrative: Experience

- 1) **Assistant Principal, AU College of Science & Technology (June, 2001 – September, 2008)**
- 2) **Joint Local Secretary, 95th Indian Science Congress, January 3-7, 2008 Andhra University**
- 3) **Convener, Indian Science Congress Association, Visakhapatnam Chapter (April, 2008 – to date)**
- 4) **Chief Warden, AU Science Hostels (September, 2008 – to date)**
- 5) **Head of the Department, Inorganic & Analytical Chemistry (July, 2009 –to date)**

12. Books published : **Computer Applications in Chemistry (2005), Himalaya Publishing House, Mumbai**

13. Fields of Research : **Chemical speciation & Bioavailability and Reaction dynamics**

14. Number of research degrees awarded: Ph. D: **12**; M. Phil.: **12**; Diploma: **1**

Ph. D.

S. No	Name of the research scholar	Title of the thesis	Year
1	K V Lavanya	Complex equilibria of biological importance-Speciation of Ca(II) and Mg(II) complexes of L-arginine and L-histidine in micellar media- A computer augmented modeling study	1998
2	S B Ronald	Computer augmented speciation of magnesium(II) and calcium(II) complexes of L-glutamine and succinic acid in aquo-organic media	2001
3	VLSN Murthy	Effect of cosolvent on complex equilibria of L-glutamine and succinic acid with calcium(II) and magnesium(II)	2002
4	A Ramakrishna	Speciation studies of biological importance – Cobalt(II) and nickel(II) complexes of L-glutamine and succinic acid in aquo-organic media	2004
5	K Raghavachary	Speciation of metal complexes of formyl coumarin and its Schiff bases in methanol-water mixture	2005
6	M Padma Latha	Chemical speciation of amino acid complexes of Co(II), Ni(II), Cu(II) and Zn(II) ions in aqua-organic mixtures	2006
7	V Maheswara Rao	Interaction of L-glutamic acid and L-methionine with toxic metal ions- A computer augmented modeling study	2006
8	N Annapurna	Some kinetic and mechanistic studies on the oxidation of L-cystine	2008
9	Ch B V N Raju	Novel Assay and stability indicating liquid chromatographic methods for some antibiotic, antiviral and antiparkinson's drugs and pharmaceutical preparations	2009
10	B Srikanth	A study on chemical speciation of L-arginine and succinic acid with essential metal ions in micellar media	2009
11	P Srinivasa Rao	Chemical Speciation of Co(II), Ni(II), Cu(II) and Zn(II) complexes with Bio-ligands in aqua-surfactant mixtures	2009
12	V Sambasiva Rao	Micellar effect on chemical speciation of complexes of essential metal ions with L-aspartic acid and L-arginine	2010

M.Phil

S. No	Name of the research scholar	Title of the dissertation	Year
1	G Priyabrunda	MLHAQ - A database for stability constants estimated using computer programs in aqueous solution	1997
2	S Prasada Rao	Chemometric investigation of complex equilibria of succinic acid and L-glutamine with magnesium(II) in aquo-urea media	1997
3	VLSN Murthy	Complex equilibria of succinic acid and L-glutamine with calcium(II) in aqua-urea media- A computer augmented modeling study	1997
4	V Thirumalaveni	Chemometric investigation of complex equilibria L-arginine and L-histidine with cobalt(II) in micellar media	1997
5	G Himabindu	Compartmentalisation of protonation equilibria L-glutamine and succinic acid	2002
6	V U S Sagar	Computer assisted speciation of nickel(II) complexes of L-arginine and L-histidine in CTAB micellar medium	2002
7	T Vidyasagar	A study on noise pollution levels in Visakhapatnam city	2003
8	V Sreedevi	Experimental designs for determination of protonation constants of phenolphthalein in micellar media – spectrophotometric study	2004
9	G Srinivasa Rao	Assessment of salt water intrusion in coastal aquifers of Greater Visakhapatnam Municipal Corporation	2007
10	Ch Kumara Babu	Assessment of water quality parameters in Greater Visakhapatnam Municipal Corporation, Andhra Pradesh, India	2008
11	P Sita Rani	Ternary complexes of essential metal ions with citric and succinic acids in cationic micellar medium	2009

12	G. Pushparaju	Speciation of ternary complexes of citric and succinic acids in anionic micellar medium	2010
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PG Diploma in Computer methods and programming

K Nandini, Package for characteristics of metal ions of biological significance (1995)

15. Membership in Professional bodies

1. Member, Board of Studies in Environmental Sciences (PG)
2. Member, Board of Studies in Inorganic & Analytical Chemistry (PG)
3. Member, Board of Studies, Ch. S.D. St. Theresa's College for Women (A), Eluru
4. Member, Board of Studies, S.D. S. (A) College of Arts & Applied Sciences, Sriramanagar
5. Member, Board of Studies, Y.N. College, Narsapur
6. Member, Board of Studies, M.R.(A) College, Vizianagaram
7. Member, Board of Studies, P.R. Govt. College, Kakinada
8. Governing body member, College, Pithapuram
9. Life member, Indian Science Congress Association
10. Life member, Indian Council of Chemists
11. Life member, Indian Society for Technical Education
12. Life member, International Society of Teachers and Researchers in Chemistry
13. Member, Indian Chemical Society, Kolkata

LIST OF PUBLICATIONS OF Dr. G. NAGESWARA RAO

1. G N Rao, K V Ramana & R S Rao
New graphical procedures for the evaluation of stepwise stability constants of consecutive complex equilibria in aqueous and aqua - organic media
Indian J Chem 26A (1987) 849-52
2. S V V S Rao, G N Rao, A R Babu & R S Rao
Computer augmented instruction (CAI) in Chemistry
J Chem Sci 9 (1987) 1-31
3. K V Bapanaiah, G N Rao, A R Babu & R S Rao
Extension of Job's continuous variation method to a two phase system
J Indian Council Chem 4 (1988) 79-83
4. G N Rao, S V V S Rao, A R Babu & R S Rao
Prospects of intelligent computer augmented instruction (ICAI) in Chemistry
J Indian Council Chem 6 (1988) 77-92
5. S V V S Rao, A R Babu, G N Rao, A Satyanarayana & R S Rao
Lagrange interpolation method for calculation of stability constants of complex equilibria in solution phase
Indian J Chem 28A (1989) 292-7
6. G N Rao, V M Ch Vinayakumari, K V Ramana & R S Rao
Computer augmented modeling of complexes of amino acids in aquo-organic mixtures: Part II. Acido-basic equilibria of L-alanine and L-DOPA in aqua - DMF media
Indian J Chem 28A (1989) 709-12
7. G N Rao, A R Babu, SVVS Rao, A Satyanarayana, R S Rao & KV Ramana
DISPLOT-A computer program for distribution plots of proton-ligand and unprotonated metal-ligand complexes in solution phase
Acta Cien Indica 15 (1989) 321-338
8. G N Rao, S V V S Rao & R S Rao
Computer augmented instruction in Chemistry V. Multifacet applications of microcomputers in Chemical Research
Indian J Chem Sci 4 (1990) 73-112
9. N Padmaja, M S Babu, G N Rao, R S Rao & K V Ramana
Effect of urea on the speciation of 1,10-phenanthroline complexes of toxic metal ions – computer augmented modeling studies
Polyhedron 9 (1990) 2497-2506
10. G N Rao, K V Ramana & R S Rao
Computer augmented modeling of complexes of amino acids in aquo-organic mixtures. Part I. Acido-basic equilibria of L-alanine and L-DOPA in aquo-DMSO media
J Indian Chem Soc 68 (1991) 34-41
11. G N Rao
A PC based computer program to aid the preparation of solvent systems for the HPLC
Comput Biol Med 21 (1991) 161-165
12. G N Rao and K Anand kumar
A microcomputer program to analyze the CD spectrum of proteins and Nucleic acids-Use of Lotus 1-2-3 spread sheet
Comput Biol Med 21 (1991) 443-450
13. G N Rao, S V V S Rao, A R Babu & R S Rao
Computer oriented mathematical models for chemical systems
Asian J Chem 4 (1992) 99-104
14. G N Rao & R S Rao
A critical review of computer programs in complex equilibria by pH metry
J Indian Council Chem 8 (1993) 12-28
15. V Haribabu, A R Babu, G N Rao, K V Ramana & R S Rao
PHCABS: A feasibility study of an expert system for acido-basic equilibria in solution phase
Bull Pure Appl Chem 12C (1993) 31-34
16. G Somidevamma, G C Rao, M S Babu & G N Rao
Extraction and spectrometric determination of traces of thallium as the ferroin-tetrachlorothallate(III) complex
J Indian Council Chem 9 (1993) 10-15
17. K Umakantham, A Bhanumathi, G N Rao & KV Ramana

- Calcination and Sintering studies on modified lead titanate ceramic materials
Indian J Pure Appl Phys 32 (1994) 756-63
18. M W Pandit, R S Rao, S V V S Rao, G N Rao & D. Muralikrishna
An efficient Lagrange interpolation algorithm with minimum truncation errors
Bull Pure Appl Sci 13C (1994) 41-9
19. JSVML Rao, N Satyanarayana, D Muralikrishna, G N Rao & RS Rao
Chemical Applications of Linear Kalman Filter
Chem Educ 11 (1994) 26-33
20. G N Rao & A. Ramamohan Rao
Ecological balance between man and plant - a chemist's perspective
J Teach Res Chem 1 (1994) 33-37
21. G N Rao
The Human Genome Project: Aims and Objects
Chem Educ 11 (1994) 14-17
22. G N Rao
The chemistry of boron cluster compounds
Chem Educ 11 (1994) 37-41
23. K Umakantham, A Bhanumathi & G N Rao
Anomalous electrical behaviour in rare earth doped strontium barium niobate ceramics
Bull Pure Appl Sci 13D (1994) 15-18
24. R Bhaskara Rao, J S Sukumar V U S Sagar & G N Rao
Estimation of thallium(III) in ores and minerals - a modeling study
J Indian Council Chem X (1994) 58-68
25. K Umakantham, K C Mouli, A Bhanumathi & G N Rao
Modified lead titanate ceramics for ultrasonic transducers
J Pure Appl Ultrasonics 16 (1994) 87-91
26. A Braibanti, R S Rao, A R Babu & G N Rao
CEES.Expert system for complex equilibria. I MODGEN. Model generator for metal ligand equilibria in solution phase
Ann Chim (Italy) 85 (1995) 17-29
27. M S Babu, J S Sukumar, G N Rao & M S P Rao
Effect of denaturants on the speciation of amino acid complexes- Computer augmented modeling studies IV: Cobalt(II), Copper(II) and Zinc(II) complexes of L-glutamic acid in water-DMF
Indian J Chem 34A (1995) 567-72
28. G N Rao & R S Rao
Characteristics of water-organic solvent mixtures
J Teach Res Chem 2 (1995) 15-28
29. G N Rao & A R Rao
Metal clusters in biology: Iron-sulfur clusters
J Teach Res Chem 2 (1995) 37-43
30. J.S Sukumar, G N Rao, K V Ramana & M S P Rao
Effect of denaturants on the speciation of amino acid complexes- Computer augmented modeling studies VI: Protonation equilibria of L-ornithine and L-glutamic acid in anionic micellar media
Indian J Chem 35A (1996) 121-6
31. K V Lavanya, G N Rao & K V Ramana
Metal clusters in biology-Part III: The story of cytochromes
J Teach Res Chem 3 (1996) 42-49
32. K Umakantham, K C Mouli, A Bhanumathi & G N Rao
Structural properties of Inorganic materials: Tungsten bronze SBN ceramics
Bull Mater Sci 19 (1996) 345-55
33. A Braibanti, R S Rao, G N Rao & N Satyanarayana
Data-, Knowledge- and Method- bases in Chemistry Part II. Data Structures in Chemistry
J Indian Council Chem 12 (1997) 27-40
34. K Umakantham, K C Mouli, G N Rao & A Bhanumathi
Frequency relaxation in certain inorganic ceramic materials
Indian J Pure Appl Phys 35 (1997) 52-6
35. G N Rao & S Ramachandra Setty
The role of metals in biology and medicine
J Teach Res Chem 4(1)(1997) 35-46
36. M S Babu, J S Sukumar, G N Rao, K V Ramana & M S P Rao
Effect of denaturants on the speciation of amino acid complexes- Computer augmented modeling studies

- Part V: Cobalt-, Copper- and Zinc(II) complexes of L-ornithine in water-urea mixtures
J Indian Chem Soc 74 (1997) 452-5
37. K Umakantham, M Ravindra, K C Mouli, G N Rao & A Bhanumathi
XRD, phase transition and piezoelectric properties of La doped PBN ceramics
Indian J Phys 71A (1997) 555-62
38. Ch S V Prasad, A Braibanti, R S Rao & G N Rao
Chemical Applications of three-dimensional surfaces and contour diagrams
Samyak J Chem 1 (1997) 17-21
39. G N Rao, V A Ramam & R S Rao
A software package, KINTOB for kinetic studies
Bull Soc Kinet India 19(2) (1997) 1-6
40. V A Ramam, G N Rao, S V R Sastry & R S Rao
KINETOMETRICS-Part II: Study of integral order reactions with linear model option of KINTOB
Indian J Chem 36A (1997) 964-9
41. K Umakantham & G N Rao
Preparation and characterization of niobates - Part VI: Synthesis, XRD, SEM and piezoelectric studies of potassium and barium doped lead strontium niobates.
Bull Mater Sci 20(8) (1997) 1039-48
42. G. Priyabrunda, G N Rao & R S Rao
Expert systems and their relevance to Chemistry
J Teach Res Chem 4(2)(1997) 29-41
43. G N Rao, V A Ramam, S V V S Rao & R S Rao
KINETOMETRICS-Part I: KINTOB - A tool box for kinetics
J Indian Chem Soc 75(4) (1998) 236-47
44. M S P Rao, T S Rao, G N Rao & B B V Sailaja
Kinetics and mechanism of reduction of thallium(III) with mesoxalic acid in perchloric acid medium.
Oxidation Commun. **21**(3) (1998) 410 – 14
45. K Umakantham & G N Rao
Applications of Electroceramics
Everyman's Sci. 33(3) (1998) 94 – 97
46. V L S N Murthy, S Prasada Rao, G N Rao & K V Ramana
Effect of denaturants on the speciation of amino acid complexes - A computer augmented modeling study. Part VIII - complex equilibria of succinic acid and L-glutamine in water-urea media
Samyak J Chem 2(1) (1998) 5 -11
47. E Fiscaro, A Braibanti, R S Rao, C Compari, A Ghiozzi & G N Rao
A software for the estimation of binding parameters of biochemical equilibria based on statistical probability model
Talanta 45 (1998) 1267-79
48. K C Mouli, K Umakantham, A Bhanumathi & G N Rao
Preparation and characterization of certain niobates - Part V: Dielectric and structural studies of potassium and rare-earth doped lead metaniobates.
Indian J Pure Appl Phys 36 (1998) 648-54
49. A Braibanti, R S Rao, G N Rao & N Satyanarayana
Data, Knowledge and Method bases in Chemical Sciences I. BAQOR - Database for equilibrium constants in aqua-organic media
Talanta 47 (1998) 649-54
50. A Braibanti, E Fiscaro, C Compari, A Ghiozzi, R S Rao & G N Rao
Calculation of site affinity, cooperativity between sites and self-association in polymer-ligand-proton complexes.
Reactive & functional Polymers 36 (1998) 245-9
51. A Braibanti, R S Rao, G. Priyabrunda & G N Rao
CEES: Expert system for complex equilibria II. MLHAQ - A database for equilibrium constants estimated through computer programs
Ann Chim (Italy) 89 (1999) 193 - 209
52. S B Jonnalagadda & G N Rao
Kinetics and Mechanistic Studies on toluidine blue reaction with sulfite in aqueous solution and role of Cu(II) as promoter
Int J Chem Kinet 31 (1999) 539 - 49
53. S B Jonnalagadda & G N Rao
Kinetics of Reduction of toluidine blue with sulfite-Kinetic salt effect in elucidation of Mechanism
J Chem Educ 77 (4) (2000) 506 - 9

54. M S Babu, G N Rao, K V Ramana & M S P Rao
Solvent effect on protonation equilibria of L-Ornithine and L-Glutamic acid
J Indian Chem Soc 77 (8) (2000) 380-5
1. V V P Rao, V A Ramam, G N Rao & R S Rao
Envirometrics Part II: Application of artificial neural networks in chemical analysis of rock samples
Proc. Nat. Seminar on Env. Geology & Waste management, August (2000) 125-8
56. G N Rao, K S Rao, R S Rao & LH A Rehman,
A bird's eye view of chemometric tools
J Indian Council Chem 17(2) (2000) 48 - 65
57. A Braibanti, RS Rao, S B Jonnalagadda & G N Rao
Envirometrics Part I: Modeling of water salinity and air quality data
Ann Chim (Italy) 91 (2001) 29 - 39
58. M S Babu, G N Rao, K V Ramana & M S P Rao
Speciation of L-ornithine complexes of Cobalt-, Copper- and Zinc(II) in water – DMF mixtures
J Indian Chem Soc 78(2001) 280 - 3
59. BBV Sailaja, T Kebede, G N Rao & MSP Rao
Effect of denaturants on the speciation of dicarboxylic acids – Uranium(VI) complexes of malonic acid in micellar media
Indian J Chem 40A (2001) 852-6
60. M S Babu, G N Rao, K V Ramana & M S P Rao
Computer augmented speciation studies of Cobalt(II), Copper(II) and Zinc(II) complexes of L-Glutamic acid in water – urea mixtures
Indian J Chem 40A (2001) 1334-8
61. S B Jonnalagadda & G N Rao
Non-linear kinetics and mechanism of Nile blue reaction with acidic bromate and with aqueous bromine
S Afr J Chem 54 (2001) 41-59
62. A Braibanti, RS Rao, G N Rao & SVVS Rao
Data-, Knowledge- and Method- bases in Chemical Sciences Part IV. Current status on databases
Ann Chim (Italy) 92 (2002) 689-704
63. G N Rao
Impact of academic Research on Higher Education and Industrial Growth
AIU Journal (2002) 43-51
64. G N Rao and T S Rao
How to predict shapes of molecules?
Education Space 1(1) (2002) 10-12
65. BBV Sailaja, T Kebede, G N Rao & MSP Rao
Effect of surfactants on protonation equilibria of oxalic and malonic acids
J Indian Chem Soc 79 (2002) 155-8
66. G N Rao & S B Ronald
Effect of solvent on protonation equilibria of L-glutamine and succinic acids
J Indian Chem Soc 79 (2002) 416-9
67. BBV Sailaja, T Kebede, G N Rao & MSP Rao
Effect of denaturants on the speciation of dicarboxylic acids – Uranium(VI) complexes of oxalic acid in micellar media
J Indian Chem Soc 79 (2002) 583-6
68. G N Rao & S B Ronald
Speciation of calcium(II) and magnesium(II) complexes of L-glutamine and succinic acid in ethylene glycol - water mixtures
J Indian Chem Soc 79(10) (2002) 796-8
69. S B Ronald & G N Rao
Speciation of ternary complexes of calcium(II) and magnesium(II) of L-glutamine and succinic acid in ethylene glycol-water mixtures
J Indian Chem Soc 79(10) (2002) 799-801
70. S B Ronald & G N Rao
Speciation of ternary complexes of calcium(II) and magnesium(II) of L-glutamine and succinic acid in acetonitrile-water mixtures
Proc Nat Acad Sci India, 72A, IV (2002) 301-13
71. S B Jonnalagadda, M Shezi & G N Rao
Kinetics and simulation of reaction between Safranin-O and acidic bromate and role of bromide therein
Int J Chem Kinet 34 (2002) 542-9
72. M S Babu, G N Rao, K V Ramana & M S P Rao

- Mixed ligand complexes of Cobalt(II), Copper(II) and Zinc(II) with L-Ornithine and L-Glutamic acid in water – urea mixtures
Proc Nat Acad. Sci., India 73A(II) (2003) 173-84
73. K V Lavanya, K Y Kiran Kumar, T S Rao & G N Rao
Micellar effect on metal – ligand equilibria of magnesium(II) and calcium(II) with L-arginine
J Indian Chem Soc 80 (2003) 301-3
74. K V Lavanya, G N Rao, M Rajesh & M S Babu
Micellar effect on protonation equilibria of L-arginine and L-histidine
J Indian Chem Soc 81 (2004) 384-7
75. G N Rao & VLSN Murthy
Effect of dielectric constant of medium on protonation equilibria of L-glutamine and succinic acid
J Indian Chem Soc 81 (2004) 424-6
76. T V Sagar, G N Rao & N S Rao
Impact of modern agricultural practices on chemical and microbial quality of soil and water
Nat Seminar on "Impact of Water", August 7-8, 2004, Guntur
77. G N Rao & S B Ronald
Speciation studies of calcium(II) and magnesium(II) complexes of L-glutamine and succinic acid in acetonitrile - water mixture
Proc Nat Acad Sci India, 74(A),III (2004) 245-51
78. B B V Sailaja, T Kebede, G N Rao & M S P Rao
Effect of micelles on speciation of ternary complexes of Uranyl(VI) with oxalic and malonic acids
Proc Nat Acad Sci, India 74(A), IV (2004) 399-412
79. A Braibanti, R S Rao, V A Ramam, G N Rao & V V P Rao
Prospects of second generation artificial intelligence tools in calibration of chemical sensors
Ann Chim (Italy) 95 (2005) 291-301
80. V U S Sagar, G Himabindu, K G Sudarsan & G N Rao
Speciation studies of binary complexes of nickel(II) with L-arginine and L-histidine in micellar medium
J Indian Chem Soc 82 (2005) 598-601
81. G N Rao & A Ramakrishna
Speciation studies of nickel(II) complexes of L-glutamine and succinic acid in urea-water mixtures
Proc Nat Acad Sci, India, 75(A),(IV) (2005) 245-8
82. P Ajaybabu, B Radha, V V Laxmi & G N Rao
DoD: Database of databases-updated molecular biology databases
In Silico Biology 5 (2005) 54-9
83. G N Rao & A Ramakrishna
Speciation of ternary complexes of cobalt(II) and nickel(II) with L-glutamine and succinic acid in urea-water mixtures
J Indian Chem Soc 83 (2006) 332-5
84. G N Rao & K G Sudarsan
Effect of micelles on speciation of ternary complexes of nickel(II) with L-arginine and L-histidine
Chem Speciation Bioavail 18(2) (2006) 71-6
85. T Vidyasagar & G N Rao
Noise Pollution levels in Visakhapatnam City (India)
J Environ Sci Engg 48(2) (2006) 139-42
86. V M Rao, M P Latha, T S Rao & G N Rao
Speciation studies of Pb^{II}, Cd^{II}, Hg^{II}, Co^{II}, Ni^{II}, Cu^{II} and Zn^{II} complexes of L-glutamic acid in urea-water mixtures
J Indian Chem Soc 83 (2006) 925-7
87. P Ajaybabu, T V G Krishna, B Radha, L D Srinivas & G N Rao
DoD 2006: Molecular biology database update
Bioinformation 1(6) (2006) 228-30
88. V M Rao, M P Latha, T S Rao & G N Rao
Mixed ligand complexes of toxic metal ions with L-glutamic acid and L-methionine in urea-water mixtures
Chem Speciation Bioavail 18(4) (2006) 143-51
89. P Ajaybabu, J Udyama, R K Kumar, B Radha, D Sarva Mangala & G N Rao
DoD 2007: 1082 Molecular biology databases
Bioinformation 2(2) (2007) 64-7
90. A Ramakrishna & G N Rao
Speciation of cobalt(II) and nickel(II) ternary complexes of L-glutamine and succinic acid in DMF-

- water mixtures
Proc Nat Acad Sci, India 77(A), I (2007) 21-6
91. V M Rao, M P Latha, T S Rao & G N Rao
Effect of dielectric constant of urea-water medium on protonation constants of L-glutamic acid and L-methionine
J Indian Chem Soc 84 (2007) 346-9
 92. M P Latha, V M Rao, T S Rao & G N Rao
Speciation studies of some toxic and essential metal complexes of L-methionine in urea-water mixtures
Proc Nat Acad Sci, India 77(A), II (2007) 109-15
 93. M P Latha, V M Rao, T S Rao & G N Rao
Determination of protonation constants of L-glutamic acid and L-methionine in 1, 2-propanediol-water mixtures
Acta Chim Slov 54 (2007) 160-5
 94. A Ramakrishna & G N Rao
Effect of urea on speciation of cobalt(II) complexes of L-glutamine and succinic acid
Chem Speciation Bioavail 19(3) (2007)105-110
 95. A Ramakrishna & G N Rao
Speciation of nickel(II) complexes of L-glutamine and succinic acid in DMF-water mixtures
Proc Nat Acad Sci, India 77(A), IV (2007) 287-91
 96. M P Latha, V M Rao, T S Rao & G N Rao
Chemical Speciation of Pb(II), Cd(II), Hg(II), Co(II), Ni(II), Cu(II) and Zn(II) binary complexes of L-methionine in 1, 2-propanediol-water mixtures
Bull Chem Soc Ethiop 21(3) (2007) 363-72
 97. G N Rao, A Ramakrishna & K Raghavachary
Formation constants of aluminium(III), indium(III), oxovanadium(IV) and dioxouranium(VI) chelates with formyl coumarin derivatives in ethanol-water mixture
Proc Nat Acad Sci, India 78(A), I (2008) 1-6
 98. N Annapurna, A Kalyan Kumar, P Vani & G N Rao
Kinetics of oxidation of L-cystine by pyridinium bromochromate
J Indian Chem Soc 85 (2008) 542-5
 99. M P Latha, V M Rao, T S Rao & G N Rao
Speciation of ternary complexes of some essential metal ions with L-glutamic acid and L-methionine in 1, 2-Propanediol – Water Mixtures
Acta Chim. Slov. 55 (2008) 248-56
 100. K V Lavanya, V M Rao & G N Rao
Speciation of ternary complexes of calcium(II) and magnesium(II) with L-arginine and L-histidine in micellar media
Oxidat Commun 31(2) (2008) 398-409
 101. V M Rao, M P Latha, T S Rao & G N Rao
Ternary complexes of Pb(II), Cd(II) and Hg(II) with L-glutamic acid and L-methionine in 1,2-propanediol-water mixtures
Oxidat. Commun 31(2) (2008) 410-422
 102. Ch B V N Raju, G Panda, G N Rao, J Rockey
HPLC-UV Assay method for clydamycin palmitate hydrochloride as drug substance and oral solution.
Anal Lett 41 (2008) 2033-2043
 103. N Annapurna, A K Kumar, P Vani & G N Rao
Kinetics and mechanism of oxidation of L-cystine by manganese(III) in sulfuric acid medium.
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108. S. B. Jonnalagadda & G N Rao
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109. A Ramakrishna, G N Rao & S. B. Jonnalagadda
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110. V L S N MURTHY & G N RAO
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- 114 P S Rao, B Srikanth, V S Rao, C Kamala Sastry & G N Rao
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121. K V Santhee Devi, B Rama Raju and G N Rao
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130. K V Santhee Devi, B Rama Raju and G N Rao
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131. B Srikanth, V S Rao, P S Rao, C Kamala Sastry & G N Rao
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132. TVN Partha Sarathi, G N Rao & P Vani
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140. N Padmaja & G N Rao
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141. B Rama Raju, K V Santhee Devi, N Padmaja & G N Rao
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143. K V Santhee Devi, B Rama Raju & G N Rao
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146. Raju S, Ananda Kumar B, Pushpa Raju G, Bharath Kumar Naik K & G N Rao
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147. N Vijaya Kumar & G N Rao
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OTHER PUBLICATIONS

1. G N Rao
Speciation studies of drugs and antidotes - computer modeling
Res. Note, AU 1(2) (1995) 6
2. G N Rao
Intelligent database for the characteristics of metal ions in biota
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3. G N Rao, R S Rao & K S Rao
Applications of Artificial Neural Networks in chemical sciences
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4. G. Priyabrunda, G N Rao & R S Rao
MLHAQ - A database for the stability constants estimated using computer programs in aqueous solution
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5. G N Rao
Historical sketch of Organometallic chemistry. Parts I & II
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6. VLSN Murthy, G N Rao & K V Ramana
Effect of urea on the speciation of calcium(II) complexes of succinic acid and L-glutamine - A computer augmented modeling study
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7. G N Rao
Historical sketch of Organometallic chemistry. Part III - Metal Pi-acceptor compounds
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8. G N Rao & R S Rao
Computational Inorganic Chemistry
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9. G N Rao
Historical sketch of Organometallic chemistry. Part IV - Ziegler-Natta catalyst
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10. G N Rao & K V Lavanya
Why are men more vulnerable than women to defects in social skills?
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11. G N Rao
Historical sketch of Organometallic chemistry. Part V - Applications in Medicine
Res. Note, AU 3(7) (1997) 7
12. G N Rao
Historical sketch of Organometallic chemistry. Part VI - Applications in Agriculture and Industry
Res. Note, AU 3(8) (1997) 4-5
13. G N Rao & S Prasada Rao
Chemometric investigation of complex equilibria of succinic acid and L-glutamine with magnesium (II) in aqua - urea media
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14. G N Rao
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Res. Note, AU 3(9) (1997) 2-3
15. G N Rao
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Res. Note, AU 3(10) (1998) 5-7
16. G N Rao & R S Rao
Combinatorial chemistry in drug design
Res. Note, AU 3(11) (1998) 4-5
17. R S Rao & G N Rao
Intelligent tools for complex chemical systems in the New Millennium
Bull. AU Research Forum 5(11) (2000) 4-5
18. G N Rao
Science and technology-Indian scenario

B V K College Silver Jubilee Souvenir
(2006)

Seminars / Symposia/ Summer School / Workshops

1. V Conference of Indian Council of Chemists, Dhanbad, December 1985
2. X International CODATA Conference, Ottawa, Canada, July, 1986
3. VI Conference of Indian Council of Chemists, Madurai, Dec 27-29, 1986
4. 23rd Annual convention of Chemists, Annamalai, December 1986
5. VIII Conference of Indian Council of Chemists, Tirupati, December 1988
6. XIX International Conference on Solution Chemistry, Lund, Sweden, August 15-18, 1988
7. National Conference on Advances in Physical Chemistry, Kalyani, March 16-18, 1989
8. All India Summer School on Mathematical modeling in Biosciences, Assam Engineering College, Guwahati , July 17-30, 1989
9. International workshop on Computer oriented algorithms and Expert Systems, Andhra University, Visakhapatnam, September 11-25, 1989
10. 26th Annual Convention of Chemists, Indore, December 1989
11. Regional workshop on Introduction to molecular modeling, Indian Institute of Science, Bangalore, January 10-11, 1991
12. X Conference of Indian Council of Chemists, Goa, January 1992
13. 80th Indian Science Congress, Goa, January 3-8, 1993
14. XI Conference of Ind. Council of Chemists, Muzaffarpur, March 12-14, 1993
15. Training in Crystal growth, Anna University, Madras, May 31- June 13, 1993
16. 30th Annual Convention of Chemists, December 27-29, 1993
17. National Conference on Amino acids, Andhra University, Visakhapatnam, 1993
18. DST National workshop on Microprocessors and PC based systems, B A Marathwada University, Aurangabad, July 4 -22, 1994
19. 31st Annual Convention of Chemists, BHU, Varanasi, December 21-24, 1994
20. Symposium on "Teaching Methods in Chemistry", Andhra Univ., Visakhapatnam, March 11, 1995
21. National Seminar on "Research in Primary Education", Hyderabad, September 13-15, 1995
22. XIII Conference of Indian Council of Chemists, Bombay, December 28-30, 1995
23. DAE Symp. Solid. Stat. 38C(1995) 45
24. IUPAC Conf. On Chemical Thermodynamics, Osaka, Japan, August 25-30, 1996
25. Nat. Seminar on Recent Advances in Biochemistry & Molecular biology, Andhra University, Visakhapatnam, December 12-14, 1996
26. DAE Symp. Solid. Stat. 39C(1996) 55
27. IUPAC International conference on chemical and biological thermodynamics, Amritsar, January 5-8, 1997
28. XVI Conference of Indian Council of Chemists, Mangalagangothri, December 29-31, 1997
29. DAE Symp. Solid. Stat. 40C(1997) 40
30. National Conf. on Industry – education initiatives in chemistry, Dr. B.A. Marathwada Univ. Aurangabad, February 6-8, 1998
31. 7th International Chemistry Conference in Africa, University of Natal, Durban, South Africa, July 6-10, 1998
32. Inorganic '99, University of Stellenbosch, Stellenbosch, South Africa, January 17-20, 1999.
33. Eighteenth annual Conference of Indian Council of Chemists, North Maharashtra University, Jalgaon, December 27-29, 1999
34. **Symposium on Industry-Academia dialogue on research themes, Andhra university Visakhapatnam, February 17-18, 2000 (Invited talk)**
35. National seminar on Environmental geology with special reference to waste management, Andhra University, Visakhapatnam, August 12-13, 2000
36. 7th International Conference on Chemometrics in Analytical chemistry, Antwerp, Belgium, October 16-20, 2000
37. National seminar on Trends in Biotechnology in the 21st century-Perspectives in bioactive molecules, Feb 12-14, 2001, GITAM, Visakhapatnam
38. National seminar on Networking of University, research institute and industry, CFTRI, Mysore, September 27-28, 2001
39. International conference on Industrial pollution and control technologies, JNTU, Hyderabad, December 7-10, 2001
40. National symposium on Recent trends in chemical kinetics, Andhra University, Visakhapatnam, January 31, 2002
41. **National seminar on "The role of computers in Physical sciences", NUPG Centre, Nuzvid, February 14-16, 2002 (Invited talk)**
42. 9th International meeting on chemical sensors, Boston, USA, July 7-10, 2002

43. IUPAC conference, Rostock, Germany, July 2002
44. 1st Asian Meeting of Bioinorganic Chemistry, Okazaki, Japan, March 7-10, 2003
45. Annual Conf. Of Indian Council of Chem., IIT Rurkee, October 17-19, 2003
46. Nat. Seminar on Impact of Modern Agricultural practices on chemical and microbial quality of soil and water, Hindu College, Guntur, August 7-8, 2004
47. Chemistry biology interface: Synergistic new frontiers, University of Delhi, November 21-26, 2004
48. **7th Conference of International Acad. Phys. Sci., University of Allahabad, December 21-23, 2004 (Invited talk)**
49. **National Seminar on physics of non-crystalline materials, ANU PG center, Nuzvid, December 29-31, 2004 (Invited talk)**
50. **Regional Conf. Of Indian Council of Chemists, ANU PG center, Nuzvid, January 23, 2005 (Invited talk)**
51. **Work shop on Environmental Hazards and need for environmental Audit, PR Govt. College, Kakinada, February 28, 2005 (Invited talk)**
52. **National Seminar on Recent developments in coordination and Bioinorganic chemistry, Kakatiya University, Warangal, March 11-12, 2005 (Invited talk)**
53. **Seminar on Emerging trends in renewable energy sources, Ch. S. D. St. Theresa College, Eluru, March 28-29, 2005 (Invited talk)**
54. National Conference On Recent trends in chemistry of biologically interesting compounds, VHNSN College, Virudhunagar, July 22-23, 2005
55. 57th Indian Pharmaceutical congress, Hyderabad, December 2-4, 2005
56. **Regional Seminar on Scientific Vision, Govt. Degree College, Tekkali, Nov 21-22, 2006 (Invited talk)**
57. 38th Convention of South African Chemical Institute, University of Kwazulu-Natal, Durban, South Africa, December 3-8, 2006
58. National Seminar on New frontiers in Chemistry, Kakatiya University, Warangal, 23-24 February, 2007.
59. National Seminar on Global Temperature rise: An Indian effort towards mitigation of carbon dioxide emissions, Andhra University, Visakhapatnam, 21-22 September 2007.
60. **Regional Workshop on Instrumental methods in Practical Chemistry, Dr V S Krishna Govt. College, Visakhapatnam, 11-12 December 2007 (Invited talk).**
61. 95th Indian Science Congress, Andhra University, Visakhapatnam, 3-7 January, 2008.
62. National Seminar on Modern Trends in Analytical methods of analysis, Sri Krishnadevaraya University, Anantapur, 25-27 February 2008.
63. International Conference on sustainable environmental sanitation and water resources during new millennium, GITAM University, Visakhapatnam, 26 March 2008.
64. **National Seminar on Emerging Trends in Chemistry, Govt. Degree and PG College, Tuni, 28 July, 2008 (Invited talk).**
65. **National Seminar on Role of metal ions in reaction pathways, SRR Govt. Degree and PG College, Karimnagar, 28-29 August, 2008 (Invited talk).**
66. International Seminar on analytical chemistry-its importance in industry, environment and health, Andhra University, Visakhapatnam, November 8-12, 2008.
67. International conference on Frontiers in chemistry research, Mangalore University, Mangalagangothri, December 29-31, 2008.
68. 96th Indian Science Congress, North eastern hill University, Shillong, 3-7 January, 2009.
69. National Seminar on Analytical Chemistry – its importance in industry, environment and health, Andhra University, Visakhapatnam, 24-26, September, 2010.

Refresher course / Orientation Programme

- | | |
|--|-----------------------|
| 1. Academic staff orientation course, Andhra University, Visakhapatnam | Jan.22 - Feb.18, 1992 |
| 2. Academic staff Refresher course, Andhra University, Visakhapatnam | February 2 - 25, 1995 |
| 3. Academic staff Refresher course, Andhra University, Visakhapatnam | February 8 - 28, 2001 |

Radio talks

1. Quiz on Science, 13-2-96
2. Tips to Medical & Engineering entrance Examinations, 10-4-96
3. Tips to Medical & Engineering entrance Examinations, 19-4-96
4. Tips to Medical & Engineering entrance Examinations, 8-5-96
5. Tips to General Science for competitive examinations, 2-10-96
6. Tips to General Science for competitive examinations, 9-10-96
7. Talks on Latest scientific inventions & discoveries, 8-1-97
8. Talks on Latest scientific inventions & discoveries, 22-1-97
9. Quiz on General Science, 7-9-1999.
10. Interview on Industrial pollution, 12-11-2008

Conferences Organized

1. Joint Local Secretary, 95th Indian Science Congress, 3-7 January, 2008, Andhra University, Visakhapatnam
2. Co-director, National Seminar on Analytical Chemistry – its importance in industry, environment and health, 24-26, September, 2010, Andhra University, Visakhapatnam.