Publications of Dr. R. RAMESH RAJU, Dept.of Chemistry, ANU.

Publications in National and International Journals

- 1) **Ramesh Raju, R.,** Damodar, J. and Jayarama Reddy, S. The Electrocatalytic hydrogenation of α Aryl acrylic acids. Electrochemistry Communications, 4, 115-117 (2002).
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- 13) N.Bujji Babu, P.Srinivasa Rao and R.Ramesh Raju. "RP-HPLC Method Development and Validation of Levodopa". International Journal of Research in Pharmaceutical and Biomedical Sciences, 1(1), 23-26 (2010).
- 14) P.Srinivasa Rao, N.Bujji Babu and R. Ramesh Raju. "Study the Effect of Chlorpyrifos on Proteins in Fresh Water Fish Labeo Rohita by using HPLC Method". International Journal of Research in Pharmaceutical and Biomedical Sciences, 1 (1), 1-5 (2010).
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- 18) R.Ramesh Raju and N.Bujji Babu. "Development and Validation of HPLC method for the estimation of IRBESARTAN in pharmaceutical dosage form". *Pharmacophore* 2011, Vol. 2 (2), 145 – 149.
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- 31) K.Nirmala and R.Ramesh Raju. New RP-HPLC method development and validation for analysis of combreastatin. JPR: BioMedRx, 1(4), 367 370, 2013.
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- Ramesh Raju, R., Damodar, J. and Jayarama Reddy, S. Second international seminar on Analytical techniques in monitoring the Environment, Department of Chemistry, Sri Venkateswara University, Tirupati, India, Dec.18-20, 2000.
- 2) Anitha, K., **Ramesh Raju, R.** and Madhusudana Reddy, T. 17th International congress of Nutrition and Metabolism, Vienna, Austria, Aug. 27-31, 2001.
- Ramesh Raju, R., Krishna Mohan, S. and Jayarama Reddy, S. National Seminar on Role of Chemistry in Emerging Areas of Applied Sciences, by Department of Chemistry, Sri Venkateswara University, Tirupati, India, March 15-17, 2004.
- 4) Participated in the national seminar in "Experimental techniques and tools in chemical laboratories" jointly organized by Department of Chemistry, Acharya Nagarjuna University and Department of Chemistry and Biochemistry, Mahatma Gandhi College, Guntur during 1-2, November, 2008.
- 5) Ramesh Raju, R., Anitha, K. and Jayarama Reddy, S. Presented a paper on "An amperometric Biosensor as novel drug screening tool" at international conference on sensors and related networks (SANNET 2009), during December 07-10, 2009, VIT University, Vellore, Tamil Nadu.
- 6) Sreenivasa Rao, P., Bujji Babu, N. and Ramesh Raju, R., Presented a paper on "HPLC method for investigations of Cypermethrin pesticide in edible fish" at international symposium on Emerging trends in Biomedical and Nanobiotechnology: Relevance to Human health, during December 19-21, 2009, Department of Biotechnology and Department of Nanotechnology, Acharya Nagarjuna University, Nagarjuna Nagar – 522 510, Guntur, Andhra Pradesh.

- 7) Bujji Babu, N., Sreenivasa Rao, P.and Ramesh Raju, R., Presented a paper on "Spectrophotometric method for quantitative determination and Pharmaceutical formulations of Acuvail drug" at international symposium on Emerging trends in Biomedical and Nanobiotechnology: Relevance to Human health, during December 19-21, 2009, Department of Biotechnology and Department of Nanotechnology, Acharya Nagarjuna University, Nagarjuna Nagar – 522 510, Guntur, Andhra Pradesh.
- Participated in the UGC sponsored "National seminar on importance of Knowledge of chemistry in modern branches of Science and Technology" organized by Department of Chemistry, Acharya Nagarjuna University, Guntur, during 3-5, August 2009.
- 9) Ramesh Raju, R., Giridhar, G., Rangacharyulu, M. and Sambasiva Rao, P. Presented a paper on "Effect of bonding nature in alkali cadmium phosphate glasses" at the National seminar on Recent Trends in Emerging Frontiners of Physical Sciences (RTEFPS- 2009), during November 02-03, 2009, B.I.T Sindri, Jharkhand.
- 10) Giridhar, G., Ramesh Raju, R., Rangacharyulu, M and Ravi Kumar R.V.V.S.N. Presented a paper on "FT-IR spectral studies of alkali cadmium phosphate glasses" at the National seminar on Recent Trends in Emerging Frontiners of Physical Sciences (RTEFPS- 2009), during November, 02-03, 2009, B.I.T Sindri, Jharkhand.
- 11) Sreenivasa Rao, P., Bujji Babu, N. and **Ramesh Raju, R.** Presented a paper on "Gas chromatographic method for the analysis of Chlorpyrifos pesticide in fresh water fish" at national seminar on Biomedical Applications of Nanotechnology on 6th march 2010, Department of Biotechnology, Acharya Nagarjuna University and Association of Biotechnology and Pharmacy, Guntur, conducted at Acharya Nagarjuna University, Nagarjuna Nagar-522 510, Guntur, Andhra Pradesh.
- 12) Bujji Babu, N., Sreenivasa Rao, P. and Ramesh Raju, R. Presented a paper on "RP HPLC method development for Simvastatin Drug analysis" at national seminar on Biomedical Applications of Nanotechnology on 6th march 2010, Department of Biotechnology, Acharya

Nagarjuna University and Association of Biotechnology and Pharmacy, Guntur, conducted at Acharya Nagarjuna University, Nagarjuna Nagar- 522 510, Guntur, Andhra Pradesh.

- 13) Sunder Kumar, K., Sree lakshmi, M. and Ramesh Raju, R. Presented a Paper on "Determination of Metal aerosols in PM₁₀ at Vijayawada, A.P." at National seminar on Biomedical applications of Nanotechnology on 6th march 2010, Department of Biotechnology, Acharya Nagarjuna University and Association of Biotechnology and Pharmacy, Guntur, conducted at Acharya Nagarjuna University, Nagarjuna Nagar-522 510, Guntur, Andhra Pradesh.
- 14) Nirmala, K., Sreenivasulu, R. and Ramesh Raju, R. Presented a paper on "Biomedical Applications of Nanotechnology" at national seminar on Biomedical applications of Nanotechnology on 6th march 2010, Department of Biotechnology, Acharya Nagarjuna University and Association of Biotechnology and Pharmacy, Guntur, conducted at Acharya Nagarjuna University, Nagarjuna Nagar- 522 510, Guntur, Andhra Pradesh.
- 15) Sreenivasulu, R., Rajendra, B. and Ramesh Raju, R. Presented a paper on "Role of Nanotechnology in Drug Delivery" at National seminar on Biomedical applications of Nanotechnology on 6th march 2010, Department of Biotechnology, Acharya Nagarjuna University and Association of Biotechnology and Pharmacy, Guntur, Conducted at Acharya Nagarjuna University, Nagarjuna Nagar- 522 510, Guntur, Andhra Pradesh.
- 16) Sreenivasulu, R. and Ramesh Raju, R. Presented a paper on "Biological activity and Synthesis of Marine alkaloids" at National seminar on Recent Research Trends in Synthetic Organic and Natural Products Chemistry on March 29-30, 2010, Department of Chemistry, Sri Venkateswara University, Tirupati-517 502, Andhra Pradesh.
- 17) K.Sunder Kumar and R. Ramesh Raju: Oral presentation given on a paper "Study on ambient air Quality parameters in urban centre of Vijayawada (India) in different anthropogenic activities" at 2nd international conference on Environmental Management on October 25–28 2010, Centre for Environment, Jawaharlal Nehru Technological University, Hyderabad, India.

- 18) K.Sunder Kumar and R. Ramesh Raju: Presented a paper on "Study of seasonal variation in ambient air quality in and around Vijayawada" at A.P science congress and annual convention of A.P akademi Sciences (APSC–2010) on November 18-20, 2010, Institute of Science and Technology, Jawaharlal Nehru Technological University, Hyderabad, India.
- 19) K.Sunder Kumar and R. Ramesh Raju: Presented a paper on "Human health risks in urban centre due to air pollution" at International Conference on Recent Trends in Renewable Energy Resources:ICER2ER Indo German Nachkontakt Association (IGNA) Hyderabad on January 28-30, 2011, Indian Institute of Chemical Technology (IICT), Hyderbad.
- 20) K.Sunder Kumar and R. Ramesh Raju: Presented a paper on "An Assessment of the impact of Climate Change on Growth and Development" at National Seminar on Green Chemistry and Sustainable Development on January 6-7, 2011, Department of Chemistry, Government Degree College Guntur-522002, A.P.
- 21) K.Nirmala, R.Sreenivasulu and R. Ramesh Raju: Presented a paper on "Importance of Green Catalyst in Organic Synthesis" at National Seminar on Green Chemistry and Sustainable Development on January 6-7, 2011, Department of Chemistry, Government Degree College Guntur-522002, A.P.
- 22) K.Sunder Kumar and R. Ramesh Raju: Presented a paper on" Determination Selected Heavy Metal in PM₁₀ at Vijayawada A.P" at National Seminar on Green Chemistry on 2011, Department of Chemistry, Degree College Nagaram, A.P.
- 23) E.Chandra sekhar, K.Sunder Kumar, K.Krishna Rao and R.Ramesh Raju: Presented a paper on chitosan-poly acryl amide magnetic nano composite semi IPN's for removal of heavy metal ions from aqueous solutions, at National Seminar on Nanotechnology for Pollution Control on 5th March 2011, Department of Chemistry, Hindu P.G College, Guntur-522002, A.P.
- 24) **R.Sreenivasulu and R.Ramesh Raju**: Presented a paper on Synthesis of novel schiffs bases bearing 5- (2 Hydroxy 6 methyl pyridyl) 1,3,4 Oxadiazoles at National Seminar on

New Frontiers in Chemical Research on 19th November 2011, Department of Chemistry, Acharya Nagarjuna University, Nagarjuna Nagar - 522510, A.P.

- 25) K.Sunder Kumar, R.Sreenivasulu and R.Ramesh Raju: Presented a paper on Synthesis of novel disubstituted oxadiazole derivatives at National Seminar on New Frontiers in Chemical Research on 19th November 2011, Department of Chemistry, Acharya Nagarjuna University, Nagarjuna Nagar - 522510, A.P.
- 26) K.Nirmala and R.Ramesh Raju: Presented a paper on Synthesis and biological active studies of indole fused heterocyclic compounds at National Seminar on New Frontiers in Chemical Research on 19th November 2011, Department of Chemistry, Acharya Nagarjuna University, Nagarjuna Nagar - 522510, A.P.
- 27) R.Sreenivasulu and R.Ramesh Raju: Presented a paper on Synthesis of 2,5 Bis(3' indolyl) 1,3,4 oxadiazoles, Analogues of Marine alkaloid, "Nortopsentin" at National Seminar on Chemistry of Natural Products on 28th & 29th November 2011, Department of Chemistry, Krishna University, Machilipatnam, A.P.
- 28) K.Sunder kumar and R.Ramesh Raju: Presented a paper on Assessment of ambient air quality in urban centre of Vijayawada (India) in relation with different anthropogenic activities and health risks" at National conference on 7th to 8th September 2012, Department of Chemistry, Gitam University, Visakhapatnam, A.P.
- 29) R.Sreenivasulu, K.Anitha and R.Ramesh Raju Presented a paper on "Synthesis of Topsentin-Triazole Analogues" at A.P science congress and annual convention of A.P akademi Sciences (APSC-2012) on November 14-16, 2012, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur-522510, Andhra Pradesh.
- 30) E.Chandra Sekhar, K.S.V. Krishna Rao and R.Ramesh Raju Presented a paper on "In-vitro release studies of 5-Fluorouracil through pectin/PVP semi interpenetrating polymeric network Hydrogel Beads at at A.P science congress and annual convention of A.P akademi Sciences

(APSC–2012) on November 14-16, 2012, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur-522510, Andhra Pradesh.

- 31) K.Nirmala and R.Ramesh Raju Presented a paper on "A convenient and Eco friendly synthesis of Bis Indonyl Alkaline derivatives" at A.P science congress and annual convention of A.P akademi Sciences (APSC–2012) on November 14-16, 2012, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur-522510, Andhra Pradesh.
- 32) K.Sunder Kumar, C.Nagavardhini and R.Ramesh Raju Presented a paper on "Assessment of air pollution monitoring sites in rural and urban areas of Vijayawada (India)" 7th National conference on "thermodynamics of chemical biological and environmental processes" on 10 – 12 december, 2012, at Department of Chemistry, Sri Venkateswara University, Tirupati-517 502,Andhra Pradesh.
- 33) K.Sunder Kumar and R.Ramesh Raju Presented a paper on "Assessment of the impact of vehicular emission on urban air quality in and around Vijayawada (India) "National Seminar at Department of Chemistry, Vikrama Simhapuri University, Nellore, Andhra Pradesh.
- 34) R.Sreenivasulu and R.Ramesh Raju Presented a paper on "Asymmetric hydrogenation of pyridine derivatives by Pto2 using S-(-)- Binaphthol as Chiral auxiliary" National Seminar at Department of Chemistry, KBN College Vijayawada, on December 13 – 14, 2012, A.P.
- 35) R.Sreenivasulu and R.Ramesh Raju Presented a paper on "Synthesis of 3,6 bis(3'-indolyl) dihydro tetrazines, Nortopsentin analogues" at 2nd UK –India Med Chem Congress, IICT, Hyderabad, on 22 23 march, 2013.
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- 37) B. Pratapa Reddy, J.Kusuma, M.V. Basaveswara Rao, R. Sreenivasulu and R. Ramesh Raju . Total synthesis of Diplodialide C. Modern trends in chemical sciences, department of chemistry, Acharya Nagarjuna University, Nagarjuna Nagar – 522 510, 20 & 21st December, 2013.
- 38) G. Alluraiah, R. Sreenivasulu, I. Sreenivasa Murthy, I. Hatti and R. Ramesh Raju. Total synthesis of Verbalactone. Modern trends in chemical sciences, department of chemistry, Acharya Nagarjuna University, Nagarjuna Nagar – 522 510, 20 & 21st December, 2013.
- 39) R. Sreenivasulu, I. Hatti, K. Anitha and R. Ramesh Raju . Synthesis and antitumor evaluation of novel bis indolyl hydrazine - hydrazones. Modern trends in chemical sciences, department of chemistry, Acharya Nagarjuna University, Nagarjuna Nagar – 522 510, 20 & 21st December, 2013.
- 40) K. Sunder Kumar, R. Sreenivasulu and R. Ramesh Raju. Synthesis of 2,3 dialkyl -3H pyrido[1,2-a] pyrimidin-4(9aH) imines via a one pot three component condensation reaction as pharmacological interest. Modern trends in chemical sciences, department of chemistry, Acharya Nagarjuna University, Nagarjuna Nagar 522 510, 20 & 21st December, 2013.
 - 41) M. Sreelakshmi, R.Ramesh Raju, C. Rambabu, GV Rama Rao and K. Narendra. Ultrasonics investigations in binary mixtures of cyclohexanone with alcohols at different temperatures. Modern trends in chemical sciences, department of chemistry, Acharya Nagarjuna University, Nagarjuna Nagar 522 510, 20 & 21st December, 2013.
 - 42) I. Hatti, R. Sreenivasulu, R. Durgesh and R. Ramesh Raju . Synthesis of pyridine ring fused oxadiazoles. Modern trends in chemical sciences, department of chemistry, Acharya Nagarjuna University, Nagarjuna Nagar – 522 510, 20 & 21st December, 2013.
 - K. Sunder Kumar, R. Ramesh Raju and Manojit pal. "Synthesis of novel Nthiophenyl substituted pyrrole[2,3-b]quinoxalines via Buchwald coupling strategy their pharmacology. Royal Society of Chemistry (RSC- London)-DS, National Poster Symposium on Organic/Medicinal Chemistry, Dec 21st, 2013, Krishna University, Vijayawada, A.P, India.
 - 44) I. Hatti and R. Ramesh Raju . Regulation and control rules for depletion of Ozone. department of chemistry, Govt . College for women Guntur, Oct 28-29, 2014.
 - 45) Islavathu Hatti and Rudraraju Ramesh Raju. Presented a paper on "Electroorganic reduction – ecofriendly reaction" in a national seminar "Eradication of Pollution: The role of Science. VSR & NVR College, Tenali, 08th January, 2015.

- 46) Islavathu Hatti and Rudraraju Ramesh Raju. Presented a paper on "Role of solar cells in power generation" in a national seminar "Eradication of Pollution: The role of Science. VSR & NVR College, Tenali, 08th January, 2015.
- 47) Islavathu Hatti and Rudraraju Ramesh Raju. Presented a paper on "Microwave assisted reactions in organic synthesis" in a national seminar "Eradication of Pollution: The role of Science. VSR & NVR College, Tenali, 08th January, 2015.
- 48) Islavathu Hatti, Reddymasu Sreeivasulu, surrender singh jadav, Venkatesan Jayaprakash, C. Ganesh kumar and Rudraraju Ramesh Raju. Presented a paper on "Synthesis, Cytotoxic activity and docking studies of new 4-aza podophyllotoxin derivatives" in a national seminar "Current research trends and developments in organic synthesis" conducted at Adikavi nannaya university, Rajahmundry from 5-6, October 2015.
- 49) Gurrala Alluraiah, Reddymasu Sreeivasulu, Palle Sadanandam, Kowthalam Anitha and Rudraraju Ramesh Raju. Presented a paper on "A conise stereoselective total synthesis of (-) – Cephalosporolide D" in a national seminar "Current research trends and developments in organic synthesis" conducted at Adikavi nannaya university, Rajahmundry 5-6, October 2015.
- 50) Deekala Veronica and **Rudraraju Ramesh Raju** presented a paper on "Synthesis and biological evolution of 1,3,4-oxadiazole linked 7-aza indole derivatives as Anti cancer activities" on National seminar at VSR&VNR college,Tenali on 23 january 2016.
- 51) Sapavath Madhavi, Yazala Jyothsna Pragathi and Rudraraju Ramesh Raju presented a paper on "synthesis of indole fused Triazole derivatives" on National seminar at VSR&VNR college, Tenali on 23 january 2016.
- 52) Sapavath Madhavi, Pinapati Srinivasa Rao and Rudraraju Ramesh Raju presented a paper on "Nano chemistry for cancer Treatment" on national seminar at ANU on 28-29 march 2016.
- 53) Deekala Veronica and **Rudraraju Ramesh Raju** presented a paper as poster presentation on "Biosynthesis of silver nanoparticles using aqueous extract of lawsonium inermis leaf and their antibacterial activity" at National seminar on Advances in the synthesis of Nanomaterials and their multidimensional applications in chemical and biosciences(NANCBS-2016) organized by Andhra loyola College ,vijaywada during 14-15 september 2016.
- 54) Sapavath Madhavi, Pinapati Srinivasa Rao and Rudraraju Ramesh Raju presented a paper on "System approaches for solid waste management in developing countries" on national Seminar at SRR&CVR college, Vijayawada on 16-17september 2016.

Projects:

- Asymmetric hydrogenation of heteroaromatic compounds using catalytic amount of chiral auxiliaries funded by Department of Science & Technology, New Delhi with cost Rs. 19,90,000-00 as Principal Investigator (SR/FT/CS-095/2009).
- Synthesis and Biological evaluation of Nortopsentin and Topsentin analogues funded by University Grants Commission, New Delhi with cost Rs. 12,20,800-00 as Principal Investigator [42-285/2013(SR)].
- Synthesis, antitumor evaluation and mechanistic studies of Nortopsentin analogues funded by Council for Scientific and Industrial Research, New Delhi with cost Rs. 32,00,000-00 as Principal Investigator [02(0114)/13/EMR-II].
- Spectroscopic investigations on mixed alkali effect in alkali zinc borate glasses funded by University Grants Commission, New Delhi with cost Rs. 10,35,871-00 as Co-Principal Investigator [37-2/2009(SR)].
- Spectroscopic investigations on rare earth doped nanocrystals embedded cadmium phosphate glasses for optical fiber amplifiers funded by University Grants Commission, New Delhi with cost Rs. 13,50,800-00 as Co-Principal Investigator [42-832/2013(SR)].

BOOKS:

- R.RAMESH RAJU: Written the one Chapter in Book "*The Woman her Vision*" and title is "Women in Science and Technology" Published by Center for Women's Studies, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur- 522510, Andhra Pradesh.
- PH.D AWARDED: 6 SUBMITTED: 2 AND M.PHIL AWARDED: 6

PROFESSIONAL RECOGNITION, AWARDS, FELLOWSHIPS RECEIVED:

- Senior Research Fellowship, Awarded by Council of Scientific and Industrial Research (CSIR), Govt. of India, New Delhi in April 2004.
- Post-Doctoral Fellowship Awarded by Department of Chemistry, Pusan National University, Pusan, South Korea in July 2006.
- Awards: Fellow of AP akademi of Sciences, A.P.,

Administrative experience:

- 1) Member of University affiliation committee (I visited various colleges for given the affiliation) and Member in Board of Studies (PG) in Chemistry of our University.
- 2) As External Examiner for M.Sc., Theory and practical's in various universities including our university for conducting the examinations both regular and distance mode.
- **3)** Member of Board of Studies for Post Graduation in Chemistry of Dravidian University, Kuppam, Chittoor- Dt.

(R.Ramesh Raju)