

**Areas of Interest:**

She has specialized in Organic Synthesis. Her research interests include Organic Chemistry, Analytical Chemistry and Environmental Chemistry.

- ▶ Educational & Professional**- ▶ Academic Qualifications**

- ▶ Ph.D in Organic Analytical Chemistry, Sri Krishnadevaraya University (1990-1993)

- ▶

M.Phil in Organic Chemistry, Sri Krishnadevaraya University (1990-1990)

- ▶

M.Sc in Organic Chemistry, Sri Krishnadevaraya University with I Division (1985-1987)

▶ Professional Experience**- ▶ Teaching Experience**

- ▶ Research Associate(Associate Professor), Telugu Academy,Hyderabad, (15-03-2005 - 15-04-2007)
- ▶ Associate Professor, DVR College of Engineering & Technology (01-12-1999 - 15-03-2005)
- ▶ Asst. Professor, Dr.G.Narayanamma Institute of Technology (01-12-1997 - 30-03-1999)
- ▶ Senior Research Fellow, Sri Krishnadevaraya University (24-01-1994 - 30-01-1997)
- ▶ Counsellor, Dr.B.R.Ambedkar Open University (1994 - 15-06-1995)

- ▶ At JNTUH

- ▶ Professor, JNTUH-CEH (2013 - Till Date)
- ▶ Associate Professor, JNTUH-CEH (2007 - 2013)

- ▶ Research**- ▶ Research Projects**

- ▶ *Development of PEM, AEM and Alkaline Water Electrolyzers for Hydrogen Production*, funded by BOARD OF RESEARCH IN NUCLEAR SCIENCES (BRNS), BARC, Mumbai - 33,095,300=00 (sanctioned in 2014 duration of 5 years)
- ▶ *Synthesis of novel benzimidazole styryl derivatives as anti-tuberculosis agents.*, funded by CSIR-OSDD,CDRI-Lucknow - 7.5 Lakhs (sanctioned in 2013 duration of 3 years)
- ▶ *Synthesis and biological activity evaluation of novel quinoline derivatives as potential anti-cancer agents.*, funded by UGC - 7.7 Lakhs (2010 - 2013)

- ▶ Books

- ▶ Prasanta Rath, B.Rama Devi, Ch. Venkata Ramana Reddy, *Engineering Chemistry*, Cengage Learning, 978-93-866668-08-0, 2019
- ▶ B.Rama Devi, MPS Murali Krishna, *Text book of Engineering Chemistry and Environmental studies (for First Year polytechnic students)*, VGS, 2016

- ▶ Publications

- > Rajasekhar Bhupathi., Madhu Bandi, Ch.Venkata Ramana Reddy, B.Rama Devi, *Green and efficient synthesis of 4-methyl-quinolones and their anti-bacterial evaluations.*, Heterocyclic Chemistry, 2016
- > B.Rama Devi, Purnachand Dasari, Veerareddy, Kameshwar Rao , Madhusudhan Reddy., *Development and validation of RP-HPLC Method for determination of related substances and degradants in entacapone.*, Journal of Chromatographic science, ISBN No.DOI:10.1093/chromsci/bmw083, Vol No.54(8), pp.1310-1323, 2016
- > B.Rama Devi, *Green and efficient synthesis of 4-methyl-deinole and their anti-bacterial evaluations*, Heterocyclic Chemistry, 2016
- > P.Sreelatha, D.Viveknanda Reddy , P. Sripal Reddy , B.Rama Devi, *Novel and validated stability indicating HPLC method for simultaneous estimation of olmisartan and chlorthalidone in oral solid form*, American Journal of Pharma Tech Research. , Vol No.6(6), pp.214-232, 2016
- > Arava Veerareddy, Dasari Purnachand, Bhoomireddy Ramadevi, Bethi Madhusudhanreddy, *Development and Validation of Stability Indicating RP-HPLC Method for Determination of Related Substances in Fenopropfen Calcium*, Journal of Chemical and Pharmaceutical Research, Vol No.8(5), pp.251-259, 2016
- > B.Rama Devi, T.Ashok Kumar, *Syntheses of arylcinnamic acids using Alum-Cs₂CO₃ as precursors of new 2-heterostyrylbenzimidazoles and their antimicrobial evaluation.*, Medicinal Chemistry Research, Vol No.24(3), pp.1351-1364, 2015
- > B.Rama Devi, Raja. S. Bhupathi, B.Madhu, Ch.Venkata Ramana Reddy, P.K.Dubey, *Tetrabutyl ammonium acetate: Green and efficient synthesis of Dihydropyranol[3,2-C] quinolones from 1-methyl quinoline at 2,4[1, H, 3H] diones.*, Letters in Organic Chemistry, Vol No.12, pp.497-503, 2015
- > B.Rama Devi, Arava Veera Reddy, Poornachand Dasari, Kameswar Rao, Madhusudan Reddy Bathi, *Development and validation of stability indicating HPLC method for the determination of impurity profile in Gamendazole: Experimental male oral contraceptive.*, Journal of Liquid Chromatography and Related Technologies, Vol No.38(13), pp.1303-1314, 2015
- > B.Rama Devi, Sandeep Mohanty, Amrendra Kumar Roy, G.Sandeep Reddy, G.Bhargan, *Knoevenagel condensation of aromatic bisulfate adducts with 2,4 thiazolidindione in the presence of Lewis acid catalysis.*, Tetrahedron Letters, Vol No.56(20), pp.2564-2567, 2015
- > B.Rama Devi, Yellejyosula Lakshmi Narsimha Murthy, Palla Mahesh, L.K. Durgeswara, Palla Mani, *Synthesis and antibacterial assay of 9-substituted aryl-1,8-dioxo-octahydroxanthenes.*, Asian Journal of Chemistry, Vol No.26(15), pp.4594-4598, 2015
- > Raja S. Bhupathi, B.Rama Devi, P.K.Dubey, *Tetrabutylammonium Acetate: Green and Efficient synthesis of Dihydropyranol[3,2-C]Quinolones from 1-Methylquinoline-2,4(1H,3H)-Diones*, Letters in organic chemistry, Vol No. Vol.12, pp.497-503, 2015
- > Raja S. Bhupathi, B.Rama Devi, P.K.Dubey, *DBU acetate mediated: one pot multi component synthesis of Dihydropyranol[3,2-C]Quinolones.*, Journal of Heterocyclic Chemistry, 2015
- > Raja S. Bhupathi, B.Rama Devi, P.K.Dubey, *PEG-600 mediated simple and efficient synthesis of ring substituted 4-heterylthioquinolines as potential antimalarial agents.*, Afro Asian Journal of Science and Technology, 2015
- > D. Vivekananda Reddy, P. Sreelatha, P.K. Dubey, B. Rama Devi, *Green Synthesis of 3-(2(4(6Fluorobenzo[d]isoxazol-3-yl)piperidin-yl) ethyl-6,7,8,9-tetrahydro-9-hydroxy-2 methylpyridol [1,2-a]pyrimidin-4-one*, Asian Journal of Chemistry, Vol No.26(12), pp.3450-3452, 2014
- > T.Ashok Kumar, B.Rama Devi, *Alum-Cs₂CO₃ as a New Recyclable Solid Base Catalyst for the Efficient Syntheses of Arylidene malononitriles, Esters and Arylcinnamic Acids in Water.*, Asian. J. Chem, Vol No.26(7), pp.1938-1942, 2014
- > T.Ashok Kumar, P.N.Kishore [Babu, B.rama Devi, *Glycerol Containing Triacetylborate Mediated Syntheses of Novel 2-Heterostyryl Benzimidazole Derivatives: A Green Approach.*, Organic Chemistry International, Vol No. Volume 2014 (2014), Article ID 260726, 9 pages, 2014
- > P.Praveen Kumar, Y.Dathu Reddy, Ch.Venkata Ramana Reddy, B.Rama Devi, P.K.Dubey, *Indium chloride: a versatile Lewis acid catalyst for the synthesis of 3-sulphenylindoles.*, Journal of Sulfur Chemistry, Vol No.35(4), pp.356-361, 2014
- > P.Praveen [Kumar, Y.dathu Reddy, Ch.Venkata Ramana Reddy, B.Rama Devi, P.K.Dubey, *One pot, three-component synthesis of novel 3, 4-dihydrophthalazin-2(1H)-yl-4-phenyl-4H-pyrans.*, Tetrahedron Letters, Vol No.55, pp.2177-2182, 2014
- > P.Praveen Kumar, Y.Dathu Reddy, Ch.Venkata Ramana Reddy, B. Rama Devi, P.K.Dubey, *Synthesis of Novel Symmetrical and Unsymmetrical Phthalic Acid Diamides*, Organic Chemistry International, Vol No. Article ID 576715, 2014
- > D.Viveknanda Reddy, B.Sreelatha, B.Rama Devi, *A Novel Stability Indicating Assay Method Development and Validation of Dasatinib Tablets Formulations.*, Chemical Science Review and Letters, Vol No.3(12), pp.747-758, 2014
- > S.S.Praveen Kumar Darsi, K.Shiva Kumar, B.Rama Devi, A.Naidu, P.K.Dubey, *An Efficient Synthesis of Quinalone-3-(N-Phenyl Pyrroles) and Quinalone-3-Cyclohexadienone Derivatives.*, Indian Journal of Chemistry, Vol No.52B, pp.1146-1151, 2013
- > T.Ashok Kumar, B.Rama Devi, P.K.Dubey, *Green syntheses of N-alkyl-2-styrylbenzimidazoles.*, Asian Journal of Chemistry, Vol No.25(12), pp.6557-6561, 2013
- > P.N.Kishore Babu, B.Rama Devi, P.K.Dubey, *Synthesis of ?- cyanostyryl benzimidazoles under solvent-free conditions using L-proline as catalyst: A green approach.*, Der Chemica Sinica, Vol No.4(2), pp.107-114, 2013
- > P.N.Kishore Babu, B.Rama Devi, P.K.Dubey, *Ultrasound assisted convenient, rapid and environmentally benign synthesis of N-alkylbenzimidazoles.*, Der Chemica Sinica, Vol No.4(1), pp.105-110, 2013
- > S.S.Praveen Kumar Darsi, A.Naidu, P.K.Dubey, B. Rama Devi, *Green and Environmentally Friendly Synthesis of Quinoliny I, 2, 4-s-triazolo [4,3-a] quinoxalines from 2-chloroquinoline-3-carbaldehyde.*, International. J.Chemical Engg. & Applications, Vol No.3 (6), pp.434-436, 2012
- > Padam Praveen Kumar, B.Rama Devi, P.K.Dubey, *An easy and efficient synthesis of N-substituted imides using TBAB melt as neutral, cost-effective and recyclable ionic liquid.*, Current Catalysis, Vol No.1, pp.202-205, 2012
- > S.Kotaiah, B.Rama Devi, A.Naidu, P.K.Dubey, *Synthesis and pharmacological activity of 2-((4,5-Disubstituted pyridine -2-yl)methylthio)-6-methoxypyrimidin-4-ol.*, Asian Journal of Chemistry, Vol No.24, pp.3884-3886, 2012
- > S.S.Praveen Kumar Darsi, K.S. Nagamani, B.Rama Devi, A.Naidu, P.K.Dubey, *Studies on N-acetylation of anilines with acetyl chloride using Phase transfer catalysts in different Solvents.*, Der Pharma Chemica, Vol No.3(5), pp.35-38, 2011
- > S.Kotaiah, B.Rama Devi, A.Naidu, P.K.Dubey, *Studies on synthesis of 2-(1-(1H-benzimidazol-2-yl)ethyl thio)-6-methyl pyrimidin-4-ol of potential pharmaco-logical interest.*, Der Pharma Chemica, Vol No.3(5), pp.198-201, 2011
- > Padam Praveen Kumar, B.Rama Devi, P.K.Dubey, S.M.G.Mohiuddin, *PEG-600 Mediated Simple, efficient and eco friendly synthesis of N-substituted imides & chemo selective C=C reduction.*, Green Chemistry Letters & Reviews, Vol No.4, pp.341-348, 2011
- > B.Rama Devi, V.Suryanarayana, *Polarographic and Spectrophotometric behavior of Cobalt (II) at Sulphadiazine system*, Eastern Pharmacist, Vol No.1, pp.171, 1993
- > B.Rama Devi, V.Suryanarayana, *A catalytic Polarographic method for the simultaneous determination of Cobalt (II) and Nickel (II)*, Bulletin of Electro Chem. Soc., , Vol No.ix, pp.2, 1993
- > B.Rama Devi, V.Suryanarayana, *Spectrometric methods for the determination of ascorbic acid*, Asian Journal of Chemistry, Vol No.5.3, pp.604-609, 1993
- > B.Rama Devi, V.Suryanarayana, *Polarographic catalytic method for the determination of micro quantities of Pencillins*, The Eastern Pharmacist, Vol No.11, pp.123, 1992
- > B.Rama Devi, V.Suryanarayana, *Determination of Thiambutosine by DC Polarographic*, J. Electrochem., Society of India, Vol No.41-4, pp.237-238, 1992
- > B.Rama Devi, V.Suryanarayana, *Polorographic catalytic method for the simultaneous determination of Cobalt (II) and Nickel (II)*, Electro Chem., Soc., of India, Vol No.41(4), pp.239-241, 1992
- > P.Praveen Kumar, B.Rama Devi, P.K.Dubey, *A New facile Sulfenylation of 2-acetylbenzimidazoles.*, Phosphorus, Sulfur, and Silicon and the Related Elements, Vol No.189 (12), pp.1775-1779, 2014

National Journals

- Kavitha Kothi Reddy, B.Rama Devi, *Development of RP-HPLC method for the estimation of in vitro and in vivo samples of ketoprofen in bulk drug and transdermal dosage form.*, Vol No.7, 2016
- B.Rama Devi, Palla Mahesh, L. K. Durgeswari, Y. L. N. Murthy, *An efficient synthesis of symmetrical N,N-alkylidene bis-amides catalysed by nano copper ferrite.*, Organic Chemistry, Vol No.11(9), pp.323-327, 2015
- B.Rama Devi, Mahesh Palla, Praveen Choppa, Y. L. N. Murthy, *Synthesis, Characterization of bisacridines using nano ferrite as an efficient catalyst*, Der Pharma Chemica, Vol No.7(3), pp.59-63, 2015
- B.Rama Devi, *A Rapid Novel RP- HPLC Stability Indicating Assay Method Development and Validation of Dipyrindamole in Dipyrindamole Extended release Capsules.*, Analytical Chemistry, Vol No.15(4), pp.140-150, 2015
- B.Rama Devi, D.Vivekananda Reddy, P.Sreelatha, *A Rapid Novel RP- HPLC Stability Indicating Assay Method Development and Validation of simultaneous determination of sumatriptan succinate and naproxen sodium.*, Analytical Chemistry, Vol No.15(5), pp.151-159, 2015
- B.Rama Devi, Palla Mahesh, B.Dilip Kumar, Y.L.N.Murthy, *Synthesis of Thioacridine Derivatives using Lawesson's reagent.*, Oriental Journal of Chemistry, Vol No.31(3), pp.1683-1686, 2015
- Palla Mahesh, Kolakaluri Guruswamy, Bhargavathula Subrahmanya Diwakar, B. Rama Devi, Y. Lakshmi Narsimha Murthy, Pratap Kllu, Sri Venkata Narayan Pammi, *Magnetically Separable recyclable nano ferrite catalyst for the synthesis of acridinediones and their derivatives under solvent-free conditions*, Chemistry Letters, Vol No.44, pp.1386-1388, 2015
- Raja.S.Bhupathi, B.Rama Devi, P.K.Dubey, *Stability indicating RP-HPLC method development and validation for the simultaneous estimation of candesartan cilexetil and hydrochlorothiazide in bulk and tablet dosage form.*, Der.Pharmacia Letters, Vol No.7(12), pp.114-121, 2015
- P.Praveen Kumar, B.Rama Devi, P.K.Dubey, *An expeditious synthesis of imides from phthalic, maleic and succinic anhydrides and chemoselective C=C reduction of maleic amide esters.*, Indian Journal of Chemistry, Vol No.(sec-B), 53B, pp.392-398, 2014
- Raja S. Bhupathi, B.Rama Devi, P.K.Dubey, *A simple and highly efficient synthesis of quinolone tertiary amines catalyzed by hunigs base*, Heterocyclic Letter, Vol No.Vol.4, pp.391-397, 2014
- T.Ashok Kumar, B.Rama Devi, P.K.Dubey, *A simple facile and complete green synthesis of N-alkyl-2-Styryl benzimidazoles using glycerol and PEG-600 as solvents.*, Der Chemica Sinica, Vol No.4(1), pp.111, 2013
- P.Praveen Kumar, S.M.G. Mohiuddin, B.Rama Devi, P.K.Dubey, *Studies on reactions of anhydride with Schiff bases*, Indian Journal of Chemistry, Vol No.52B, pp.686-690, 2013
- Raja S. Bhupathi, B.Rama Devi, P.K.Dubey, *Microwave assisted solvent-free synthesis of Pyrazolo [4, 3-c] quinolines using montmorillonite K-10 clay: An environmental Benign approach*, Heterocyclic letters, Vol No.3-121, 127, 2013
- Raja S.Bhupathi, B.Rama Devi, P.K.Dubey, *InCl₃-mediated, solvent free Conrad-Limpach reaction: Facile and Efficient one pot method for the synthesis of Quinolones.*, Vol No.3, pp.25-29, 2013
- S.Kotaiah, B.Rama Devi, A.Naidu, P.K.Dubey, *A green and facile synthesis of 6-Methyl-2-(alkylthio) pyrimidin-4(3H)one.*, Asian Journal of Chemistry, Vol No.25(17), pp.9869-9871, 2013
- P.Praveen Kumar, S.M.G. Mohiuddin, B.Rama Devi, P.K.Dubey, *Studies on reactions of anhydrides with Schiff bases.*, Indian Journal of Chemistry, Vol No.52B, pp.686-690, 2013
- P.N. Kishore Babu, S. Tasqueeruddin, B.Rama Devi, P.K.Dubey, *A facile synthesis of 3-(1H-benzimidazol-2-yl)-chromen-2-ones.*, Indian J. Heterocyclic Chem., Vol No.21(4), pp.289-292, 2012
- P.N.Kishore Babu, B.Rama Devi, *Ultra sound promoted simple and efficient N-Alkylation of 2-substitutedbenzimidazoles.*, Asian Journal Chemistry, Vol No.24(12), pp.5756-5758, 2012
- S.S.Praveen Kumar Darsi, K.Shiva Kumar, B.Rama Devi, A.Naidu, *Synthesis of novel Pyrazoloquinoline derivatives.*, Indian J. Heterocycl. Chem, Vol No.21, pp.237-244, 2012
- Raja S.Bhupathi, B.Rama Devi, P.K.Dubey, *L-Proline as an efficient Catalyst for synthesis of N-Heterocyclic chalcones as potential Anti Bacterial Agents.*, Indian J. Chem, Vol No.51B, pp.855-859, 2012
- S.S. Praveen Kumar Darsi, B.Rama Devi, A.Naidu, P.K.Dubey, *Alkaloids as promising anti-cancer agents*, Technology Spectrum, Vol No.5(3), pp.20-25, 2011
- Raja S. Bhupathi, B.Rama Devi, P.K.Dubey, *Solvent-Free Protocol for Stereo Selective Crossed Aldol Condensation Assisted by Solid Acid Catalyst.*, Asian Journal of Chemistry, Vol No.23(9), pp.4215-4218, 2011
- Raja S. Bhupathi, B.Rama Devi, P.K.Dubey, *A Facile, Chemo selective and Eco-friendly Solid Phase Synthesis of Enaminones Catalyzed by L-Proline.*, Asian Journal of Chemistry, Vol No.23(12), pp.5521-5524, 2011
- B.Rama Devi, V.Suryanarayana, *Spectrophotometric determination of tetracycline hydrochloride*, Indian Drugs, Vol No.30(10), pp.531, 1994
- K. Swarna Rani, B.Rama Devi, V.Suryanarayana, *Polarographic determination of cephalosporins in pure form and in pharmaceutical preparations*, Indian J. Pharm. Sci., Vol No.3-4, pp.64, 1994
- B.Rama Devi, V.Suryanarayana, *Polarographic determination of carbimazole in pharmaceutical dosage forms*, Indian J.Pharm.,sci., Vol No.1, pp.40, 1993

Events Participated/Organized

- Organized

- Organized a Conference on International Congress on Recent Advances in Chemistry And Chemical Engineering (ICRACACE-2016, JNTUH, 11-07-2016 to 13-07-2016)
- Organized a Workshop on National Workshop on Role of Chemistry in Drug Industry, JNTUH, 04-02-2015 to 05-02-2015
- Organized a Refresher Course on Innovative Methods in Green and Applied Chemistry, UGC ASC JNTUH, 28-07-2014 to 19-08-2014
- Organized a Conference on Frontiers of Chemical Research, JNTUH-CEH, 25-10-2013 to 26-10-2013
- Organized a Workshop on Role of Chemistry in Drug Industry, JNTUH-CEH, 04-02-2013 to 05-02-2013
- Organized a Conference on Recent Advances in heterocyclic Chemistry, JNTUH-CEH, 04-11-2011 to 05-11-2011
- Organized a Workshop on Workshop on Polymer Waste Management, Hyderabad, 19-01-2009 to 20-01-2009

- Participated

- Participated in a Conference on ICCSE, Kuala Lumpur, Malaysia, 22-12-2012 to 23-12-2012
- Participated in a Conference on 14th Asian Chemical Congress, Bangkok, 05-09-2011 to 08-09-2011

- Teaching

- Chemistry in M.Sc Organic Chemistry & Drugs and Pharmaceuticals III, IV Sem (2007 to til)
- Applied Chemistry, Eng.Chemistry in Mett.EEE I&II Semester (2007 to til)

- Administrative Positions Held

- Head, Department of Chemistry, 16 Oct 2014 - 31 Oct 2016

- ▶ **Project/Research Guidance**

- **Students**

Student Name	Title	Year	Download
Anguru Mohana Rao		2018	
Dasari Poornachand		2017	
D.Vivekananda Reddy	Analytical methods for the determination of pharmaceutical formulations (tetracyclines, cephalosporins etc) based on spectrophotometric and chromatographic methods	2016	
Palla Mahesh	Derivatives and validation of new analytical methods for new chem entities (NCE's) and API's by using HPLC/GC	2016	
T.Ashok Kumar	Synthesis of novel benzimidazole and quinolone scaffolds as potential anti-tuberculosis agents	2015	
P.N.Kishore Babu	Synthesis and reactions of benzimidazole-2-diketones	2015	
S.Kotaiah	Reactions of 2-mercapto-6-methylpyrimidine-4-one and its derivatives with halo compounds. Phenacyl bromides and certain anhydrides.	2015	
S.S.Praveen Kumar Darsi	Studies of reactions of 2-chloroquinolones-3-carboxaldehyde	2015	
P.Praveen Kumar	Studies of reactions of phthalic anhydride with different nucleophiles	2014	
B.Rajasekhar	Synthesis and characterization of some quinolone derivatives of biological interest	2014	

- ▶ **Countries/Foreign Universities**

- ▶ Mauritius State University, Mauritius , 18-07-2016 to 22-07-2016 Chairing session and paper presentation in International conference on Pure & Applied Chemistry 2016
- ▶ ICCSE -2012, Kuala Lumpur, MALAYSIA , 22-12-2012 to 23-12-2012 For chairing session and presentation of Research paper
- ▶ Asian Chemical Congress -11., Bangkok , 05-09-2011 to 08-09-2011 For the presentation of Research paper in the conference

Contact :
