


Name of the Faculty	Dr.L.Vaikunta Rao		
Designation	Professor & HoD		
Date of Joining	04.04.2024		
Email	Vaikuntarao.chem@jbiet.edu.in		
Educational Qualifications	Name of the degree	Institute	Class
Ph.D	Doctor of Philosophy (Chemistry)	Andhra University	
M.Sc	Chemistry And Analysis of Foods ,drugs & Water	Andhra University	First
Work Experience	31 + years		
Research	14 years		
Responsibilities at central level	1.Dean- UGC Affairs , R & D 2.Deputy Director (2013- 2020) : UGC Affairs & Research Activities 3.Assistant Director (2012-2013) : UGC Affairs & Research Activities		
Responsibilities at departmental level	Head of the Department Chairman : Board of Studies Member of BOS 2010-2016		
Courses handled at UG level	Organic Chemistry, Inorganic Chemistry, Physical Chemistry .		
Courses handled at PG level	Advanced instrumental methods of Analysis, Concepts of Analytical chemistry, Pharmaceutical Analysis.		
Area of research	Organic Chemistry Pharmaceutical Chemistry Redox Chemistry Environmental Chemistry		
Research guidance	Ph.D -10 M. phil-01 M.Sc projects-40		
Book Published	Chapters	1. Assessment of Remote Sensing and Geoprocessing use for Water Resources Monitoring of Granulite Dome and River Basin from Eastern Ghats, India. Print ISBN: 978-93-5547-247-2, eBook ISBN: 978-93-5547-255-7. Current Advances in Geography, Environment and Earth Sciences Vol. 3. Chapter 2. DOI: 0.9734/bpi/cagees/v3/1947A. Authors: Ch. Ramakrishna , Ch. Muralikrishna, D. Mallikarjuna Rao, Vaikunta Rao Lakinani and Satyanarayana Yalakala .(2022)	

	<ol style="list-style-type: none"> 2. Study on Geochemical Exploration and Processing Studies for Graphite and Tungsten Minerals from Burugubanda-Tapaskonda Areas of East Godavari District, India. Print ISBN: 978-93-5547-263-2, eBook ISBN: 978-93-5547-333-2. Emerging Challenges in Environment and Earth Science Vol. 3. Chapter 1. DOI: 10.9734/bpi/ecees/v3/3501E. Authors: Y. Satyanarayana, L. Vaikunta Rao, D. Mallikarjuna Rao, Ch. Ramakrishna.(2022) 3. Assessment of Groundwater Quality in Slums of Visakhapatnam, Andhra Pradesh, India. Print ISBN: 978-93-5547-263-2, eBook ISBN: 978-93-5547-333-2. Emerging Challenges in Environment and Earth Science Vol. 3. Chapter 2. DOI: 10.9734/bpi/ecees/v3/3502E. Authors: Y. Satyanarayana, L. Vaikunta Rao, D. Mallikarjuna Rao, K. Subba Rao, N. Srinivas and Ch. Ramakrishna. (2022) 4. Applications of Metal Organic Frameworks and Their Derived Materials, ISBN 978111965098, John Wiley & Sons, & Scrivener Publishing, USA, Science Metal organic framework chemistry, nanostructures, First edition, page No's 33-61,(2020).
Invited lectures	<ul style="list-style-type: none"> ➤ 5th Andhra pradesh science congress, amravati in association with Dr.B.R.Ambedkar university,Srikakulam during November 28-30,2019 held at Dr.B.R.Ambedkar university ➤ National Seminar on Environment and Urban biodiversity resources management June 28 - 30 2017 held on Department of Environmental Sciences, Andhra University. ➤ National Seminar on Climate Change Ecosystem environment, society September 21&22 2015 held on Department of Environmental Sciences, Andhra University. ➤ Work Shop on the importance of forest wildlife conservation of nature a d natural resources 16th July 2015 at Anam Kalakendaram, Rajahmundry.

Papers presented in conferences/seminars

- Evaluation of groundwater quality in the coastal area of Srikakulam, AP, India, 8th-9th ,December , 2022 .Organized by Department of Environmental Science ,GITAM School of Science GITAM University, Visakhapatnam. India.
- Chemistry for societal advancement 16th-18th, August 2020 Organised by Department of Chemistry,Dr.B.R. Ambedkar University , Srikakulam and Andhrapradesh Academy of Sciences ,Amaravati.
- National Seminar on Emerging biotechnological techniques in environmental sustainability is organized by Departments of Environmental Sciences and biotechnology , Andhra Loyala college ,Vijayawada during 6 to 7 march 2019 and presented a paper on Determination of free Bromine content in Ethylpyruvate sample by Oxidation process by Titration method.
- Water Sanitation & Hygiene organized by Department of Environmental Sciences, Dr.B.R. Ambedkar University , Srikakulam on 23 to24 Feb 2019
- 5th AP science congress,AP Akademi of Sciences in association with Dr.B.R.Ambedkar university, held during 28-30 November ,2019 and given invited talk on A study of ground water quality in Urban areas of Visakhapatnam,AP
- National Seminar on State of Environment ; Environmental protection management and Governance held in Department of Environmental Sciences, Andhra University during June 28 - 30 ,2018and presented paper on assessment of ground water quality in Urban areas of Visakhapatnam.,AP
- National Seminar on Environment and Urban biodiversity resources management June 28 - 30 2017 held on Department of Environmental Sciences, Andhra University and presented paper on assessment of ground water quality around coastal region ,Vizianagaram district
- National Seminar on Climate Change Ecosystem environment, society September 21&22, 2015 held on

	<p>Department of Environmental Sciences, Andhra University.</p> <ul style="list-style-type: none"> ➤ National Conference on Sustainable Development (SusCon) 10th& 11th October 2012 organised by Institute of Science, GITAM University, Visakhapatnam. ➤ Work Shop on the importance of forest wildlife conservation of nature and natural resources 16th July 2015 at Anam Kalakendaram, Rajahmundry. ➤ Study on ground water quality along the sea-coast of Visakhapatnam to Bheemili in Visakhapatnam district, National seminar on climate change and sustainable management of water resources, March 17-18, 2012 at GITAM University, Visakhapatnam. ➤ Impact of industries on the quality of Godavari river water at Bhadrachalam, East Godavari district ,Andhra Pradesh, National seminar on climate change and sustainable management of water resources, march 17-18, 2012 at GITAM University, Visakhapatnam. ➤ Ideal potable water characteristics, National seminar on climate change and sustainable management of water resources, march 17-18, 2011 at GITAM University, Visakhapatnam ➤ Ground water quality study in tribal habitations of Visakhapatnam district - Andhra Pradesh Science Congress, 14-16, November, 2011 jointly organized by GITAM University, Visakhapatnam and Andhra Pradesh Akademi of Sciences. ➤ Synthesis of a-carboline Analogues - Andhra Pradesh Science Congress, 14-16, November, 2011 jointly organized by GITAM University, Visakhapatnam and Andhra Pradesh
--	--

Akademi of Sciences.

- Comparative drinking bore well water quality study in Visakhapatnam district - Andhra Pradesh Science Congress, 14-16, November, 2011 jointly organized by GITAM University, Visakhapatnam and Andhra Pradesh Akademi of Sciences.
- Comparative shallow aquifer quality study in Visakhapatnam district - Andhra Pradesh Science Congress, 14-16, November, 2011 jointly organized by GITAM University, Visakhapatnam and Andhra Pradesh Akademi of Sciences.
- Ground water quality study in tribal habitations of Visakhapatnam district Andhra Pradesh science congress, 14-16 ,November,2011 at GITAM University, Visakhapatnam
- Synthesis of a –carboline Analogues Andhra Pradesh science congress, 14-16 November, 2011
- Comparative drinking bore well water quality study in Visakhapatnam district Andhra Pradesh science congress, 14-16 ,November, 2011 at GITAM University, Visakhapatnam
- Comparative shallow aquifer quality study in Visakhapatnam district Andhra Pradesh science congress, 14-16 ,November, 2011at GITAM University, Visakhapatnam
- Vedic description of natural elements national conference on Present relevance of Ancient Indian sciences ,14-15 September 2011 at GITAM University, Visakhapatnam.
- National Seminar on the Recent Trends in Pharmaceutical Chemistry (RTPC) 2011 organised by Department of Chemistry, Krishna University, Machilipatnam, AP during 30-31 January 2011.

- Study on the quality of Godavari river water at Bhadrachalam in Khammam District, A.P (India), 2nd International Conference on Environmental Management, 25th -28th October 2010 at JNTU, Hyderabad, Andhra Pradesh.
- Estimation of impurities in simvastatin drug API by using chromatographic LC method, national seminar on recent advances in green chemistry aligning science, education, industry and society, 15th to 16th November 2010 at Satavahana University, Karimnagar, Andhra Pradesh
- Effect of industrial effluents, domestic sewage, municipal sewage on Godavari river water at Bhadrachalam, Khammam District, 29th – 30th November 2010 at National Conference on Biological Chemistry organized by Dept. of Chemistry, GITAM Institute of Science, GITAM University, Visakhapatnam, Andhra Pradesh.
- Spectrophotometric detection and determination of Gallo blue with oxalic acid as a reagent. National Academy of Science, 1996.
- Spectrophotometric determination of iron (III) using p-anisidine as a reagent in the medium of nitric acid. 83rd Indian National Science Congress, Calcutta, 1996.
- Determination of ascorbic acid with hexacyanoferrate (III) in nitric acid medium through Potentiometric and visual methods. Indian National Science Congress, 1995.
- Detection and Spectrophotometric determination of copper (II) using pyridine as the reagent. Abstracts of National Academy of Sciences, 63rd Annual Session, Bangalore, 1993.
- Detection and Spectrophotometric determination of copper (I) using molybdenum (VI) as the reagent. Abstracts of 30th

	<p>Annual Convention of Chemists, Calcutta, 1993.</p> <ul style="list-style-type: none"> ➤ P- Anisidine as a new indicator for the titrimetric estimation of Fe (II), U(IV), Mo(V), v(IV), hexacyanoferrate (II), hydroquinone and hydrogen peroxide with cerium (IV). Indian Science Congress, Baroda, 1992. ➤ p- Anisidine as a new reductometric indicator for the determination of iron(II), copper (I) and hydroquinone with vanadium (V). 28th Annual Convention of Chemists. Calcutta, 1991.
Research publications	<ol style="list-style-type: none"> 1.Satish Kumar Burra, Vaikunta Rao Lakinani, Raghunadh Akula & Chiranjeevi Yankkanti .Green and eco-friendly synthesis of quinolone substituted indolyl-4H-chromenes via C–C bond formation. SYNTHETIC COMMUNICATIONs, VOL. 54(3), 207– 215 (2024) . 2.Assessment of Nagavali River water quality in and around Srikakulam district for agriculture and irrigation ,CH.V. Saikrishna, L. Vaikunta Rao,□ and D. Mallikarjuna Rao.ISSN: 0974-1496 e-ISSN: 0976-0083.RASĀYAN Journal of Chemistry., Vol. 17, No.1, 2024. 3.Chittala V. Subrahmanyam, Battula Sreenivas Rao, Pamerla Muralidhar, Lakinani Vaikunta Rao, Bhekumuzi Gumbi, Suresh Maddila. Green Synthesis of novel pyrano [2,3-C]pyrazole-5-carbonitrile analogues by using Fe 5 (PW 10 V 2 O 40) 3 nanocatalyst through a one-pot Knoevenagel condensation and Michael addition mechanism. Inorganic ChemistryCommunications 159 (2024) 111906. 4.Ashok Ettam and L. Vaikunta Rao,A Sustainable Protocol for C=C Bonds Synthesis UsingWater Extract of Annona squamosa Fruit Shell Ash (WEASF) ,Chemistry Select 2023, 8, e202302684, doi.org/10.1002/slct.202302684. 5.D. V. M. Krishna reddy, P. B. sandhya sri., K. A. K. Raj kumar and L. Vaikunta rao,Ultrasonic Studies in the Binary Mixtures of O-Chlorophenol with Salicylates at Different Temperatures ,2023,Oriental Journal Of Chemistry 39(2):340-355 .

6. Chiranjeevi Yakkanti, Vaikunta Rao L, Nagaraju Kerru, Simhachalam Gorle, Shankar Madhavaram, Raghunadh Akula & Sandeep V. H. S. Bhaskaruni. One-Pot Multi-Component Synthesis of Polysubstituted Pyridines Using DBU-SiO₂ as a Robust Recyclable Catalyst. 2023, Polycyclic Aromatic Compounds.
7. R Chandrasekhar, Y Satyanarayana, Ch Ramakrishna, L Vaikunta Rao, Jaspreet Kaur, Surinder K Mehta. A Case Study of the Effect of Seawater Intrusion on the Water Quality Index of the Indian Southeastern Coastal Region, ACS ES&T Water, 2023.
8. Simhachalam Gorle, V. N. Chandra Sekhar, L. Vaikunta Rao, K. Raghavendra Rao & Raghunadh Akula, 2-Glucose as an eco-friendly reducing agent for a one-pot multicomponent synthesis of Quinoxalines, Synthetic Communications, Volume 53(5), 2023.
9. Gorle Simhachalam, L Vaikunta Rao, Dasi Samsonu, Akula Raghunadh. Iodine-Catalyzed One-Pot Multicomponent Synthesis of Pyrrolo/indolo [1, 2-a] quinoxalines Substituted with ortho-Carbonyl Alkyl Benzoates/Benzoic Acids via Spirocyclic Ring Opening, Synlett, 2023,
10. D.V.M. Krishna, Sandhya Sri P.B, KAK Raj Kumar, L. Vaikuntha Rao*Reddy. Ultrasonic Velocities, Densities And Excess Thermodynamic Properties Of Binary Mixtures Of O - Chlorophenol With Higher Alkanols FROM 303.15 TO 318.15K. Vol. 12 (2) 2022.
11. Simhachalam Gorle, Vaikunta Rao L, Chiranjeevi Y, Dhanunjaya Rao A. V, Ramamohan Mekala, Krishnaji Tadiparthi & Akula Raghunadh; A simple and efficient synthesis of imidazoquinoxalines and spiroquinoxalinones via Pictet-Spengler reaction using Wang resin, Synthetic Communications, 52, 218-228 (2022).
12. Simhachalam Gorle, Vaikunta Rao Lakinani, Chiranjeevi Yakkanti, Venkateshwarlu Rapolu, Sridhar Regati, Krishnaji Tadiparthi & Akula Raghunadh (2021): A Simple and Efficient [(n-Bu₃Sn)₂MO₄]_n Catalyzed Synthesis of Quinazolinones and Dihydroquinazolinones, Polycyclic Aromatic Compounds.
13. R. Chandrasekhar, L. Vaikunta Rao, Assessment of Groundwater Quality in Coastal Zone Mandalas Of Srikakulam District By Using Principal Component Analysis, International Journal of Advanced Research in Engineering and Technology (IJARET), 12(8), 23-26, (2021).

14.R. Chandrasekhar, L.Vaikunta Rao, Groundwater Quality Monitoring in A Coastal Area Using Water Quality Index And Principal Component Analysis: A Case Study of Srikakulam District India, International Journal of Civil Engineering and Technology (IJCET) ,10(9),353-364 (2019).

15.Vaikuntarao Lakinani, and Subrahmanyam Lanka.Characterization, Molecular Docking, and in vitro Evaluation of Triazole Derivatives as Potential Anti-Cancer Agents, International Journal of Pharmacy and Biological Sciences,11 (2), 161-171 (2021).

16.P.Pavitra , L.Vaikunta Rao, D Mallikarjun Rao ,Ch. Ramakrishna. A study on ground water using water quality in industrial area in Visakhapatnam , Indian j of Environmental protection,40, ISSN - 0253-7141,(2020).

17.Tirumalesh Keesari , Anndasankar Roy, Diksha Pant,Uday Kumar Sinha, P V Nagendra Kumar , L Vaikunta Rao. Major ion, trace metal and environmental isotope characterization of groundwater in selected parts of Uddanam coastal region, Andhra Pradesh, India, J. Earth Syst. Sci. 20,12040-01467 (2020).

18.K.Tirumala Rao, L. Vaikunta Rao, V.V. Krishna Mohan Kandepi. A Validated RP-HPLC Method for Estimation of Related Compounds in Hydroxy Naproxen, Asian Journal of Chemistry, 32(5)1158-1164 (2020).

19.K.Tirumala Rao, L. Vaikunta Rao, V.V. Krishna Mohan Kandepi.A Validated Rapid RP-UHPLC Method for Determination of Assay and Related Substances in TTBB, International Journal of Research in Pharmacy and Chemistry, 10(2)224-237 (2020).

20.K.Tirumala Rao, L. Vaikunta Rao, V.V. Krishna Mohan Kandepi. A Novel Validated RP-UHPLC Method for Estimation of Assay and Related Substances in Meropenem. Indian Journal of Chemistry , 59 (A) 1148-1157(2020).

21.K.Tirumala Rao, Lavikunta Rao, V.V. Krishna Mohan Kandepi. A Novel Validated UHPLC Method foe Estimation of Assay and its related substances of Trichostatin-A, International Journal of Pharmacy and Pharmaceutical Sciences ,12(7) 51-58 (2020).

22.P.Pavitra , L.Vaikunta Rao, D Mallikarjun Rao ,Ch. Ramakrishna. Ground water quality study by using ionic ratios and water quality index in coastal area of Visakhapatnam, Andhra Pradesh, International Journal of Research and Analytical Reviews,6 , page no.961-972;2348-1269 (2019).

23. Akula Raghunadh, Krishnaji Tadiparthi, Suresh Babu Meruvaa, V. Narayana Murthya, L. Vaikunta Rao, U. K. Syam Kumar. Synthesis of Quinoxalin-2(1H)-ones and Hexahydroquinoxalin-2(1H)-ones via Oxidative Amidation-Heterocycloannulation, *Synopen*, 10, 1055/s-0040-1707203 (2020).
24. T. Krishnaji, V. N. Murthy, A. Raghunadh, L. V. Rao. Simple and Efficient Amberlite 15-catalyzed Synthesis of Dihydroquinazolinones, *Russian Journal of Organic Chemistry*, 56 (8) 1070-4280 (2020).
25. Subrahmanyam Lanka, Vaikuntarao Lakinani, Sagar Rao Kanaparthi, Siva Rama Rao Kakani, Synthesis of novel Bicaultamide related derivatives and their evaluation of biological activity, *International Journal of Pharmacy and Biological Sciences*, 9 (2) 2230-7605 (2019).
26. Subrahmanyam Lanka, Vaikuntarao Lakinani, Sagar Rao Kanaparthi, Siva Rama Rao Kakani. Design and Synthesis of Novel Molecular Scaffolds of Bicaultamide derivatives for the treatment of Prostate Cell Cancer, *Research J. Pharm. and Tech*, 12(11) 0974-360X (2019).
27. Paidi Raju Dannana, L. Vaikunta Rao, B. S. A. Andrews. A facile synthesis of pyrazole derivatives in neat WERSA, *J. Indian Chem. Soc.*, 96, 1439-1444 (2019).
28. P. Murali Krishna, L. Vaikuntarao, K. Ramakrishna, V. Srinivasarao. Determination Of Ethyl 2-Chloroacetate as a Genotoxic Impurity In Nitrofurantoin By Gas Chromatography, *Rasayan Journal of Chemistry*, 12(1) 0974-1496 (2019).
29. D Mallikarjuna Rao, Ch. Ramakrishna, Y. Satyanarayana, L. Vaikunta Rao, P.V. Sivapullaiah. Assessment of ground water quality pollution due to industrialization in greater Visakhapatnam, Andhra Pradesh by using heavy metal pollution index, *Journal for advanced research in applied sciences*. 5(5) 124-133, 2018.
29. Mallikarjuna Rao, Ch. Ramakrishna, Y. Satyanarayana, L. Vaikunta Rao, P.V. Sivapullaiah. Effect of ground water quality due to urbanization in greater Visakhapatnam, Andhra Pradesh, India. *International Journal of Creative Research Thoughts*. 6(2) 720-730 (2018).
30. Mallikarjuna Rao, P. Pavitra, L. Vaikunta Rao, Ch. Ramakrishna. The Effect of Ground Water due to Saltwater Intrusion in Coastal Tract of Visakhapatnam City, Andhra Pradesh. *International Journal for Research in Applied Science & Engineering Technology* 6(4) 591-600 (2018).
32. Mallikarjuna Rao, P. Pavitra, L. Vaikunta Rao, Ch.

Ramakrishna. Assessment of Ground Water Quality Using Water Quality Index and Hydro Chemical Facies around Industrial Areas of Visakhapatnam, Andhra Pradesh, India. Journal of Environmental Science, Computer Science and Engineering & Technology. 7(2) 176-190 (2018).

33.V.Narayana Murthy, Satish P. Nikumbh, Krishnaji Tadiparthi, M. V. Madhubabu, Subba Rao Jammula, L. Vaikunta Rao*and Akula Raghunadh. Amberlite-15 promoted an unprecedented azaMichael rearrangement for one pot synthesis of dihydroquinazolinone compounds. RSC Advances. 8, 22276 – 22865 (2018).

34.P.Pavitra, D.Mallikarjuna Rao, L. Vaikunta Rao and Chinthala Ramakrishna. Ground water Quality Monitoring in a developing area using Water Quality Index and Principal Component Analysis: A Case study of Visakhapatnam, India. International Journal of Basic and Applied Sciences, 6(2), 47-54 (2017).

35.P.Pavitra, D.Mallikarjuna Rao, L. Vaikunta Rao and Chinthala Ramakrishna. An assessment of ground water quality in and around coastal region using hydro chemical ionic indices: A Case study of Visakhapatnam India, International journal of environmental sciences. 6(2) 41-52 (2017).

36.D Mallikarjuna Rao, P.Pavitra, L. Vaikunta Rao, Ch. Ramakrishna and Takela Necha Assessment of Ground Water Quality in Visakhapatnam by using Nemerow's Pollution Index and Water Quality Index Global Journal of Current Research. 5(2) 47-55 (2017).

37.D.MallikarjunaRao, Y.Satyanarayana, Ch.RamaKrishna, .V.Sivapullaiah L. VaikuntaRao 4 and Takela Nechal Assessment of Urban Ground Water Quality in GVMC, Visakhapatnam using Hydrogeo chemical Facies and Statistical Methods Global Journal of Current Research. 5(2) 2320-2920(2017).

38.Subrahmanyam Lanka, Vaikuntarao Lakinani, Siva Rama Rao Kakani, Evaluation of anti-cancer activity on N-Substituted Tetrahydrocarbazoles. Int. J. of Pharmacy and Analytical Research. 6(2) 261-273 (2017).

39.Saripalli, K. Ramakrishna, V. R. Lakinani, K. M. Gandhi. A Validated ESI-LC-MS/MS Method for Quantification of METFORMIN Form Human Urine. International Journal of Pharmacy & Technology. 9(1) 28765-28777 (2017).

40.P.Muralikrishna, L. Vaikunta Rao, K. Ramakrishna. Quantification of Low level Isobutyl bromide as a genotoxic

impurity in Febuxostat by Gas Chromatography. *International Journal of Pharmacy & Technology*. 9(1) 28758-28764 (2017).

41.K Tirumala Rao and L. Vaikunta Rao. "Rapid Stability-Indicating RRLC Method for Simultaneous Estimation of Irbesartan and Its Related Impurities." *Indian Journal of Pharmaceutical Sciences*. 78(2) 252-258 (2016).

42.Ramakrishna. Ch, Satyanarayana.Y, Mallikarjuna Rao. D, Sivapullaiiah.P.V, Vaikunta Rao. L. Salt Water Intrusion Studies in GVMC Area, Visakhapatnam, Andhra Pradesh, India. *International Journal of Earth Science and Engineering*. 9(6), 2503-2511 (2016).

43.Eswara Rao Bammidi, Vaikuntarao Lakinani, and Pavitra Development and Validation of Stability indicating HPLC Method for Balsalazide in Bulk Drug Development, *International Journal of Modern Chemistry and applied Science*. 3(1)315-322 (2016).

44.V. Narayana Murthy Satish P Nikumbh S. Praveen Kumara Y. Chiranjeevi, L. Vaikunta Rao, Akula Raghunadh. A Simple Approach for the Synthesis of Fused Quinazoline-Based Tetracyclic Compounds via a Multicomponent Reaction Strategy, *Synlett*. 27(16) 2362-2367 (2016).

45.Subrahmanyam Lanka, Vaikunta Rao Lakinani, V. Siva Rama Rao Kakani, Synthesis, Characterization and Evaluation of N-Substituted Tetrahydrocarbazoles for anti-oxidant activity *Journal of Pharmaceutics*. 3(4) 300-312 (2016).

46.Sravan Kumar Reddy Theepireddy, Nagaraj M Kulkarni, Ramakrishna Chinthala, L. Vaikunta Rao, Pranasha Setty, Rathanakar Reddy Kura, MallikarjunaRao Duvvada. Subacute toxicity of Gallic acid, isolated from Terminalia chebula in Swiss Albino Mice. *International Journal of Chemistry and Pharmaceutical Sciences*. 4(10) 439-443 (2016).

47.Sravan Kumar Reddy Theepireddy, Ravikanth Veluri, Ramakrishna Chinthala, L. Vaikunta Rao, Byresh Pabba, Rathanakar Reddy Kura, Mallikarjuna Rao Duvvada, Extraction of Gallic Acid isolated from Terminalia Chebula, Analysis by LiquidChromatography–Mass Spectrometry and its Pharmacokinetics in Mice & Rats. *International Journal of Chemistry and Pharmaceutical Sciences*. 3(8) 1900–1905 (2015).

48.Eswara Rao Bammidi, Vaikuntarao Lakinani, Subrahmanyam Lanka, Pavitra Paila, Mallikarjun Rao Duvvada. Development , Validation & Degradation studies of RP- HPLC Method for the determination of Pregabalin in oral suspension powder, *International journal of Medicine and Pharmaceutical Research*.

3(5) 1151-1156 (2015).

49.Sravan Kumar Reddy Theepireddy, Ramakrishna Chinthala, L. Vaikunta Rao, V. V. Kurisetty, Rathanakar Reddy Kura, MallikarjunaRao Duvvada. The isolation, characterization and quantification of gallic acid from the fruit extract of Terminalia chebula. Int. J. Med. Pharm. Res. 3(2) 983-988 (2015).

50.L. Vaikunta Rao, P. Pavitra, CH. Ramakrishna, D. Mallikarjuna Rao and Y. Satyanarayana. Quality Characterization of Ground Water Using Water Quality Index in Visakhapatnam City. International Journal of Pharmaceutical and Chemical Sciences. 4(1) 24-31 (2015).

51.Subrahmanyam Lanka, Vaikunta Rao Lakinani, Eswara Rao Bammidi, Siva Rama Rao Kakani. Synthesis of n-substituted tetrahydrocarbazoles and anticonvulsant activity of synthesized compounds, International journal of current trends in pharmaceutical research. 3(2) 733-736 (2015).

52.Eswara Rao Bammidi, Vaikuntarao Lakinani, Subrahmanyam Lanka, Mallikarjun Rao Duvvada. Development and Validation studies of Pregabalin Drug by RP-HPLC Method . Journal of Pharmaceutical and Biomedical Analysis Letters. 3, 214-217 (2015).

53. Eswara Rao Bammidi, Vaikunta Rao Lakinani, Subramanyam Lanka, Mallikarjun Rao Duvvada. Method Development and Validation Studies of Pregabalin Drug by RP-HPLC Method, Journal of Pharmaceutical and Biomedical Analysis Letters, 3(1) 214-217 (2015).

54.V.Narayana Murthy, Satish P.Nikumbh, S.Praveen Kumar, L. Vaikunta Rao, Akula Raghunadh, An efficient one pot synthesis of 2-amino quinazolin-4(3H)-one derivative via MCR strategy. Tetrahedron Letters. 56, 5767-5770 (2015).

55.K. Tirumala Rao, L. Vaikunta Rao. A Validated Stability-Indicating UHPLC Method for Determination of Naproxen and Its Related Compounds in Bulk Drug Samples. American Journal of Analytical Chemistry. 4, 286-292 (2013).

56.Ragunadh Akula, Ramamohan Mekala, Raghavendra Rao K, Ravi Ganesh K, L. Vaikunta Rao and Chandrasekhar K. B. FeCl₃ catalyzed an efficient protocol for synthesis of quinazolinones derivatives. Der Pharma Chemica. 6(1) 125-130 (2014).

57.Eswara Rao Bammidi, Vaikuntarao Lakinani, David Krupadanam Gazula Levi. Method Development and Validation and Degradation Studies for Cinacalcet Hcl Drug by RP-HPLC

Method. International Journal of Chemistry and Pharmaceutical Science. 2(7) 990-996 (2014).

58.Eswara Rao Bammidi, Vaikuntarao Lakinani, Rathnakar Reddy Kura Method Development Validation and Degradation studies of Voriconazole, Drug by RP-HPLC Method. International Journal of Chemistry and Pharmaceutical Sciences. 2(9) 1149-1154 (2014).

59.Akula Raghunadh, Suresh Babu Meruva, Ramamohan Mekala, K. Raghavendra Rao, Thalishetti Krishna, R. Gangadhara Chary, L. Vaikunta Rao, U.K. Syam Kumar. An efficient regioselective copper catalyzed multi-component synthesis of 1, 3- disubstituted pyrazoles. Tetrahedron Letters. 55, 2986-2990 (2014).

60.Eswara Rao Bammidi, Vaikuntarao Lakinani, Subrahmanyam Lanka, Pavitra. Paila . Development and Validation of Stability Indicating HPLC Method for Voricanazole In Bulk Drug. International Journal of Pharmacy & Technology. 6, 6781-6788 (2014).

61.Sravan Kumar Reddy Theepireddy, Ramakrishna Chinthala, L. Vaikunta Rao, Santosh Vishwakarma, K.Rathanakar Reddy, Mallikarjuna Rao Duvvada. Anti-Hiv Activity of Terminalia Chebula Crude Extracts and Gallic Acid. International Journal of Pharmacy & Technology. 6, 6346-6354 (2014).

62.Subrahmanyam Lanka, Vaikuntarao Lakinani, Eswara Rao Bammidi. Design Synthesis Method Development and Validation of N-Substituted Tetrahydrocarbazoles for Analgesic and Anti-inflammatory Activity. Asian Journal of Chemical and Pharmaceutical Research. 2, 152-155 (2014).

63.P. Pavitra, Y. Satyanarayana, L. Vaikunta Rao, Ch. Rama Krishna and D. Mallikarjuna Rao. Emphasizing the ground water quality characteristics Oof industrialization in Visakhapatnam Archives of Applied Science Research. 6 (6) 128-137 (2014).

64.Kulkarni K.S, Sahu S.K, Vaikunta Rao L, Pandit G.G. and Das N. Lakshmana. Comparative Estimation of Particulate Bound Polycyclic Aromatic Hydrocarbons: Trends at Industrial and Rural Areas of Visakhapatnam, India, Research Journal of Chemical Sciences. 4(10) 63-71 (2014).

65.Kulkarni K.S, Sahu S.K , Vaikunta Rao L, Pandit G.G and Das N. Lakshman. Characterization and Source identification of Atmospheric Polycyclic Aromatic Hydrocarbons in Visakhapatnam, India. International Research Journal of Environment Sciences. 3(11) 57-64 (2014).

	<p>66.K. Tirumala Rao, L. Vaikunta Rao. A Validated Stability-Indicating UHPLC Method for Determination of Naproxen and Its Related Compounds in Bulk Drug Samples. American Journal of Analytical Chemistry, 2013, 4, 286-292.</p> <p>67.K. Tirumala Rao, Y.V. Mohan, Naveen, L. Vaikunta Rao, Estimation of H₂O₂ Content in Free Radical Bromination and Oxidation Reactions by the H₂O₂-HBr System Generated Effluent Samples by Iodometry Method. Asian Journal of Chemistry. 25 (7) 4107-4108 (2013).</p> <p>68.L. Vaikunta Rao, Ch. Ramakrishna, K. Rukmangadarao and D. Mallikarjuna Rao Physico-chemical analysis of Godavari river water at iravandi near bhadrachalam, khammam district,. Andhra Pradesh, India. The Ecoscan - An international quarterly journal of environmental sciences. 3, 387 – 391 (2013).</p> <p>69.Akula Raghunadh, Satish S More, T. Krishna Chaitanya, Yadla Sateesh Kumar, Suresh Babu Meruva, L. Vaikunta Rao and U. K. Syam Kumar Synthesis of enantiomerically pure N-(2, 3-dihydroxypropyl) arylamides via oxidative esterification. Beilstein Journal of Organic Chemistry. 9, 2129-2136 (2013).</p> <p>70.Akula Raghunadh, Suresh Babu Meruva, Nuka Anil Kumar, Gudla Santosh Kumar, L. Vaikunta Rao, U. K. Syam Kumar. An Efficient and Practical Synthesis of Aryl and Hetaryl, α-Keto Esters. Synthesis. 44, 283–289 (2012).</p> <p>71.Potentiometric determination of ascorbic acid with hexacyanoferrate (III) in nitric acid medium. L. Vaikunta Rao. Acta ciencia indica. 36, 452 (2010).</p> <p>72.Potentiometric estimation of Arsenic (III) with chloramine - T in nitric acid medium. L. Vaikunta Rao. Journal of the institution of chemists (India) 81, 451 (2009).</p> <p>73.Detection and Spectrophotometric determination of Iron (III) with p – anisidine, L. Vaikunta Rao, Acta Ciencia indica. 34 C, 451 (2008).</p>
Staff development programs attended	<ul style="list-style-type: none"> • Faculty development program on Productivity tools for teaching enhancement conducted by Dhyana hita educational society from 7th may to 21st may ,2020, Hyderabad • Patent Awareness Programme organized by GITAM Institute of Science, GITAM University, Visakhapatnam on 28th October 2013 as sponsored by Department of Science and Technology (DST), Govt. of India, New Delhi.

	<ul style="list-style-type: none"> • Awareness workshop of UGC-DAE-Consortium for Scientific Research, organized by UGC-DAE-CSR, Mumbai Centre and GITAM Institute of Science, GITAM University, Visakhapatnam during 26-27 June 2012. • Participated in Staff Development Programme on Clean Technologies Organised by Department of Chemical Engineering, GMR Institute of Technology, Rajam, AP, during 2-14 April 2012. • Faculty development programme during 27-28, February 2010 at GITAM University, Visakhapatnam. • Work shop on English for specific purposes program for technical teachers, 13-14 March, 2006 GMR institute of Technology, Rajam, Srikakulam. • Short term course on Methods of Improvement Teaching Techniques conducted by National Institute of Technical Teachers Training & Research at GMR Institute of Technology, Rajam, 5-10 December 2005.
Professional memberships	<ul style="list-style-type: none"> ➤ <input type="checkbox"/> Association of Environmental Analytical Chemistry ➤ <input type="checkbox"/> Indian Association of Nuclear Chemists and Allied Scientists
SCOPUS ID	56058151400
ORCID ID	0000-0001-8360-7067
Vidwan id.	311682