



Dr. K. Vidya

M.Sc., Ph.D

Associate Professor

**• The Indian Science Congress Associations •, The
Indian Society for Technical Education**

Chemistry

Areas of Interest:

Synthesis of New Organic Heterocyclic Compounds, &
Screening the chemical entities for various types of Biological
activity & works out structure activity relationship

- ▶ Educational & Professional

- ▶ Academic Qualifications

- ▶ PhD in Chemistry in Organic chemistry (heterocyclic chemistry), Kakatiya University, Warangal, Telangana, India (2002-2007)

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M.Sc. in Chemistry with first Division, Kakatiya University, Warangal (1998-2000)

▶ Professional Experience

- ▶ Teaching Experience

- ▶ Lecturer, Lal Bahadur Degree P.G. College (27-05-2019 - 2010-06-30)

- ▶ At JNTUH

- ▶ Assistant Professor (Selection Grade), JNTUH CEJ, JNTUH (2017 - Till Date)

- ▶ Assistant Professor (Senior Scale), JNTUH CEJ, JNTUH (2012 - 2017)

- ▶ Assistant Professor, JNTUH CEJ, JNTUH (2010 - 2012)

- ▶ Publications

- **International Journals**

- ▶ VIDYA K, *One pot Synthesis of Some Novel Xanthine Derived isoxazoles as Potent Antibacterial Agents*, Indian Journal of Heterocyclic Chemistry, Vol No.30, pp.551-557, December, 2020
- ▶ VIDYA K, *Synthesis and Evaluation of Antibacterial and Anticancer Activities of some New Benzoxazole-Piperazine-1,2,3-Triazoles*, Indian Journal of Heterocyclic Chemistry, Vol No.30, pp.269-274, June, 2020
- ▶ *Synthesis, Characterization and Antimicrobial Evaluation of Novel (E)-N'-(4-((3,4-dimethoxy pyridine-2-yl)methyl)-1H-1,2,3-triazol-4-yl)benzylidene)benzohydrazide Derivatives*, Oriental Journal of Chemistry, Vol No.32, pp.2155-2161, August, 2016
- ▶ *A Facile Synthesis of Triazoloquinazolinone Derivatives as Potential Agglucosidase Inhibitors*, World Journal of Pharmaceutical Research, ISBN No.2277-7105, Vol No. 8, 2018, PP. 1005 -1038.
- ▶ *Synthesis, characterization and antibacterial activity of (E)-4-((3-methyl-4-(methylsulfonyl) pyridin -2-yl)methoxy) -N'- (substitutedbenzyliden e)benzohydrazide derivatives*, Oriental Journal of chemistry, ISBN No.0970-020X
- ▶ *Synthesis of Novel Benzohydrazides Bearing 4-[3- methylsulfonyl] pyridin -2-yl] Moiety as Potential Antibacterial Agents*, Asian journal of Chemistry, ISBN No.0970 -7077
- ▶ *Green synthesis of 6- aryl-9-(3-pyridyl) [1,2,4] Triazolo [4,3- a][1,8] Naphthyridines using FeCl₃.6H₂O in the solid state their Biological Activity*, Indian J Heterocyclic Chemistry, ISBN No.0971-1627
- ▶ *Facile and Efficient synthesis of Novel 6- Aryl [1,8]naphthyridino [1',2':1,2] imidazo [4,5- b]phenazines in solvent- free conditions under microwave irradiation and their antibacterial activity*, Indian J Heterocyclic Chemistry, ISBN No.0971-1627
- ▶ *Efficient synthesis of 9 -Aryl-6-[3- (trifluoromethyl) Phenyl] [1,2,4] triazolo [4,3- a][1,8]naphthyridines using thallium (III) acetate under microwave irradiation*, Indian J Heterocyclic Chemistry, ISBN No.0971-1627
- ▶ *Environmentally Benign Synthesis and Antibacterial Activity of 3- aryl-1-[3-(4-nitrophenyl) [1,8] Naphthyridin - 2- yl]- 1H-4- pyrazolecarbaldehydes*, Indian J Heterocyclic Chemistry, ISBN No.0971-1627
- ▶ *Synthesis and biological Evaluation of novel quinazolinesulfonamides A Anticancer agents*, Bio organic and medicinal chemistry letters, ISBN No.0960-894X
- ▶ *Microwave-enhanced Knoevenagel condensation catalysed by NH₂SO₃NH₄*, Indian Journal of Chemistry, ISBN No.0376-4699
- ▶ *Mild and efficient synthesis of 1,2,4- triazolo [4,3-a][1,8] naphthyridines using FeCl₃ in the solid state.*, Indian Journal of Chemistry, ISBN No.0376-4699
- ▶ *Synthesis and antibacterial acticity of 3-aryl-4-formyl-1- [3-(3-chlorophenyl)-1,8-naphthyridin-2-yl] pyrazoles*, Indian Journal of Chemistry, ISBN No.0376-4699
- ▶ *Microwave-promoted rapid and efficient method for acetylation of phenols with acetic anhydride using NaF as catalyst under solvent-free conditions*, Oriental Journal of chemistry, ISBN No.0970-020X
- ▶ *Efficient synthesis of 6 -aryl- 12 H-pyrido- [2',3':4,5]pyrimido [1,2- a][1,8]naphthyridin-12-ones under microwave irradiation*, Indian Journal of Chemistry, ISBN No.0376-4699
- ▶ *Al₂O₃ catalyzed Fridlander synthesis of 1,8-naphthyridines in the solid state*, Indian Journal of Chemistry, ISBN No.0376-4699
- ▶ *Synthesis of 1,8- Naphthyridinyl tetrachlorophthalazine- 1,4- Diones under Microwave irradiation*, Indian J Heterocyclic Chemistry, ISBN No.0971-1627
- ▶ *Synthesis and antibacterial activity of 1,3,4-oxadiazolyl- 1,8-naphthyridines*, Indian Journal of Chemistry, ISBN No.0376-4699
- ▶ *Microwave assisted synthesis of novel mannich bases containing 1,8- naphthyridine moiety on a solid support under solvent-free conditions*, Indian J Heterocyclic Chemistry, ISBN No.0971-1627
- ▶ *Efficient synthesis of 1,2,4-triazolo[4,3- a][1,8]naphthyridines using nitrous acid under microwave irradiation*, Indian Journal of Chemistry, ISBN No.0376-4699

National Journals

- ▶ *Synthesis of Novel Benzohydrazides Bearing 4-[3- methylsulfonyl] pyridin -2-yl] Moiety as Potential Antibacterial Agents*, Indian Journal of Chemistry, ISBN No.0376-4699
- ▶ *Cu-free sonogashira type cross - coupling of 6- halo - 2-cyclo propyl - 3- (pyridyl -3- yl- methyl Quinazolin -4 (3H) - ones as potential antimicrobial agents*. 2017, Journal of Heterocyclic chemistry, ISBN No.0022-152X
- ▶ *Claisen-Schmidt condensation under solvent-free conditions*, Indian Journal of Chemistry, ISBN No.0376-4699

International Conference

- ▶ *Pd catalyzed C-N bond forming reaction of 6 bromo - 2 cyclopropyl - 3(pyridyl -3-yl methyl 4 - quinazoline - (3H) one at room temperature*, Trend Setting Innovations in Chemical Sciences and Technology - Applications in Pharma Industry
- ▶ *Synthesis of Novel (E) - Np' -(4-(1- ((3,4 dimethoxy pyridin- 2-yl) methyl) - 4- yl) benzylidene) benzohydrazide derivatives.*, International Congress on Recent Advances in Chemistry and Chemical engineering
- ▶ *Hypervalent Iodine Mediated Solid State Synthesis and Biological Activity of 2-(2- substituted [1,8] naphthyridin-3-yl)-5- (substituted 2-thienyl)- 1,3,4-oxadiazoles*, Trend Setting Innovations in Chemical Sciences & Technology - Applications in Pharma Industry (TSCST-API 2015)
- ▶ *6 Aryl-8 phenyl- 8, dihydro pyrazolo [3'4',4,5] pyrimido[1,2- a][1,8]naphthyridin 1yl and their antimicrobial activity.*, International Conference on New Dimensions in Chemistry and Chemical Technoogies - Applications in Pharma Industry

National Conference

- ▶ *Efficient Synthesis of novel 6-aryl [1,8] naphthyridino [1',2':1,2] imidazo [4,5-b] phenazines in solvent free conditions under microwave irradiation.*, Recent Advances in Chemistry
- ▶ *An efficient..... Al₂O₃ in the solid state.*, Emerging Research trends & Developments in Chemistry
- ▶ *Solvent Free Synthesis of Novel 6,9 -Diaryl- 10H- [1,2,4] Triazino [4,3-9][1,8] Naphthyridinec Under Microwave Irradiation*, Novel polymers, Nanoscience and Green Chemistry
- ▶ *"Montomrillonite irradiation."*, Environmentally benign synthetic Methodologies in Chemistry (EBSMC)
- ▶ *Efficient synthesis of 1,2,4- Triazolo [4,3-A] [1,8] Naphthyridines using FeCl₃ 6 H₂O in the solid state*, Green Chemistry - An Innovation To Sustainable Development
- ▶ *Studies on Antibacterial Activity of 6-Aryl - 9- (4- hydroxy - 3 methoxy phenyl) - 1,2,4 trizolo [4,3-a] [1,8] naphthyridines*, Recent Trends in Science and Technology
- ▶ *The First Room Temperature and Cu- Free Sonogashira Type Cross- Coupling Of 6-Halo-2-Cyclopropyl-3- (Pyridyl-3-Ylmethyl) Quinazolin-4 (3H)-Ones*, Recent Advances in Chemical And Pharmaceutical Sciences
- ▶ *Microwave Induced eco - friendly solvent- free synthesis and biological activity of novel 10-[6-aryl-12-oxo-12H- [1,8]naphthyridino [2,1- b]quinoxalin - 12-ones.*, Emerging Trends & Challenges In Chemical Research ETCCR-2015
- ▶ *Synthesis and Biological Activity of 4- (2-(Benzo [d] Thiazol-2- Yl) Hydrazono)-1-(2-Hydroxybenzoyl)-3- Methyl-1 H- Pyrazol- 5(4H)-One*, Recent Advances in Chemical And Pharmaceutical Sciences
- ▶ *Hypervalent Iodine Mediated synthesis of 1- [(5- Aryl-1,3,4- Oxidiazol-2-Yl) Methyl] -3-(4- Nitrophenyl)-1,2- Dihydro [1,8] Naphthyridin-2-Ones in the solid State*, Recent Advances in Chemical And Pharmaceutical Sciences
- ▶ *Synthesis of novel Hydrazone Derivatives of 4-((3- Methyl -4- (Methylsulfonyl) Pyridin-2-Yl) Methoxy) Benzaldehyde*, Recent Advances in Chemical And Pharmaceutical Sciences
- ▶ *Efficient synthesis of flucorine containing 4. Aryl [1,2,3,4] Tetrazolo [1,5-A] [1,8] Naphthyridine under M.W irradiation*, new vistas in Chemistry During 21st Century
- ▶ *Mild & efficient Synthesis of 1,2,4- triazolo [4,3-a][1,8] naphthyridine using FeCl₃ in solid state*, Emerging Trends in Medicinal Chemistry: India - A Global Hub
- ▶ **Events Participated/Organized**

- Presented

- ▶ Presented a paper in *synthesis of Biologically active 1,3,4-oxadiazole substituted 1,7-Napharidines*, Department of chemistry and Department of chemical engineering, JNTUH CEH, 28-01-2021 to 29-01-2021

- Teaching

- ▶ B. Tech. Engineering Chemistry in All I (I Year)

- Administrative Positions Held

- ▶ Dy. Warden, JNTUH College of Engineering Jagtial, 21 Dec 2018 - Present
- ▶ CRC, JNTUH College of Engineering Jagtial, 11 Nov 2021 - Present
- ▶ Studentâ€™s advisor, JNTUH CEJ, 29 May 2015 - Present
- ▶ Head, Department of Chemistry , JNTUH College of Engineering Jagtial, JNTUH CEJ, 22 Dec 2016 - 06 May 2019

Contact :

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Chemistry

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