2. RESEARCH PAPER PUBLICATIONS

Department	No. of Research Papers published
Chemistry	20
Physics	08
Maths	22

DEPARTMENT OF CHEMISTRY:

1. **Ganesh N Yallappa[1], Nagaraja Dasappa [1,*], Chandrashekhar U [2], Aruna G L [3].** One-Pot Multi Component Microwave Assisted Synthesis of 4H-Pyrano [2, 3-c] Pyrazoles in Methanol and their Antibacterial Study. *Letters in Applied NanoBioscience,* 2022, 11(2), 3441-3448.
2. **Ganesh N Yallappa[1*], S. Rajendra Prasad, Gayatri Vaidya.** DESIGN AND SYNTHESIS OF PYRAZOLE DERIVATIVES AND IN-VITRO SCREENING TO PROTECT ACE2 HUMAN CELLS AGAINST COVID-19. (2021), *Current Medicine Research and Practice,* 11(5, 4-8).
3. Suresh HM, D. Nagaraja, **Ganesh N Yallappa[1*],** Suresha Kumara TH, S. Manjappa. **Synthesis, Characterization of Pyrazolo-Pyrimidine Derivatives by Using Nano-Zno Catalyst and Study of Their Antibacterial Activity**. *European Journal of Molecular & Clinical Medicine, 2020,* Volume 7, Issue 11, Pages 5344-5352.
4. **Ganesh N Yallappa[1*]**, D. Nagaraja[2] & U. Chandrashekhar[3]. "Base Catalyzed Microwave Assisted Synthesis, Characterization of 6-Bromo-Pyrazolo-[1,5-a] Pyrimidine-3-Ethyl-Carboxylate & Its Biological Evaluation as CDKs Inhibitor"; *Asian J. Chem.*; Vol. 30, No. 8 (2018).
5. D. Nagaraja[1], **Ganesh N Yallappa[1*]** & U. Chandrashekhar[2]; "AN EFFICIENT NANO-CATALYSED SYNTHESIS, CHARACTERIZATION & STUDY OF FLUORESCENCE PROPERTY OF SUBSTITUTED PYRAZOLE"; *Heterocyclic Letters*, Vol. 8| No.1|79- 83|Nov- Jan |2018; ISSN: (print) 2231–3087 / (online) 2230-9632; CODEN: HLEEAI http://heteroletters.org.
6. **Ganesh N Yallappa[1],** D Nagaraja[1*] & U. Chandrashekhar[1], "An Efficient Nano-Catalyzed Green Synthesis, Characterization of Substituted Pyrazoles& Study of Their Fluorescence Characteristics". *Journal on Material science* **(accepted).**
7. **Ganesh N Yallappa[1] ,** D Nagaraja[1*] & U. Chandrashekhar[1;] Green Synthesis of Pyrazolo [3,4]- Pyrimidine-thiones by using Ionic liquid 2-methyl-Imidazolium-Oxalate as Potent EAC receptor antagonists; *Asian J. of Pharmaceutical and Clinical Research,* 2019; 12(9): 276-280.
8. **Ganesh N Yallappa[1],** D. Nagaraja[1]*, U. Chandrashekhar[2]. NANO-CATALYZED GREEN SYNTHESIS OF PYRAZOLE DERIVATIVES & ITS BIOLOGICAL ACTIVITY AS EAC

RECEPTOR ANTAGONISTS. *Pharmacophore,* 2019; 28(3): 28-32.

9. **Ganesh N Yallappa[1],** D. Nagaraja[1*] Chandrashekhar U[2] and Joy Hosakere[3]; "One Pot Multi-component Microwave assisted Synthesis, Characterization of Pyrazolo [3,4-d]-Pyrimidines by using 2-Methyl-imidazolium-thiocyanate as MCF-7 Breast cancer cell inhibitors ".; Communicated in Med. Chem. Res. (**MCRE-D-19-00752).**
10. **Ganesh N Yallappa[1],** D. Nagaraja[1*] and Chandrashekhar U[2]; "One Pot Multicomponent Microwave assisted synthesis of Pyrano [2,3-c]pyrazoles and its biological activity against Prostate cancer cell lines". Abstract has been accepted for International conference on "Natural Products and Synthetic Chemistry**"** to be conducted in New York, USA.
11. **Ganesh N Yallappa[1],** D. Nagaraja[1*] and Chandrashekhar U[2]. "DESIGN AND SYNTHESIS OF PYRAZOLO-PYRIMIDINE DERIVATIVES BY USING NANO-ZnO CATALYST AND STUDY OF THEIR ANTIBACTERIAL ACTIVITY". (Manuscript is communicated).
12. Suresha Kumara TH[1], **Ganesh N Yallappa[1*]** and Suresh Kumar H **M[1]. "**Microwave Assisted Synthesis of Pyrazolone derivatives by using Nano-CoO and Study of their Anti-bacterial activity".
13. **[1]Nataraja G*, [2]Praveen BM, [3]Pruthviraj RD, [4]Sudhakara A**. Stress Corrosion Studies of AL 2014 Alloy Using Synthesized Pyrimidine Derivative Inhibitor in Different Concentration of HCl Solution. ***Bulletin of Pure and Applied Sciences, Vol.40 C (Chemistry), No.1, January-June, 2021: P.16-22.***
14. **Sudhakara Aralihalli1, *, Raghavendra Ramappa2, Harish Basavanthappa Gowdru3, Nataraja Gummanar1, Ramesha Sonnappa4, Mahadevan Kittappa Malavalli5.** Aqueous Synthesis and Biological Studies of Indole Derivatives. **Frontiers in Heterocyclic hemistry,** 2016; 2(1): 13-19, http://www.sciencepublishinggroup.com/j/fhcdoi: 10.11648/j.fhc.20160201.13.
15. **G. Nataraja a, B.M. Praveen a, R.D. Pruthviraj b, Sureshkumar kempahanumakkagari c, T. Ramakrishnappa.** Electrochemical behavior of heat treated AL 2014 alloy using Azithromycin compound in 3.5% NaCl solution. Materials Today: Proceedings 49 (2022) 764–770.
16. **G. Nataraja a,⇑, B.M. Praveen a, R.D. Pruthviraj b, A. Sudhakara b, S Ramesha, K. Sureshkumar c, T. Ramakrishnappa.** Stress corrosion studies of AL 2014 alloy using synthesized Pyrimidine derivative inhibitor in different concentration of HCl solution. Materials Today: Proceedings 49 (2022) 789–793.
17. **Ganesh N Yallappa[1*]**, D. Nagaraja[2] & U. Chandrashekhar[3]. "Base Catalyzed Microwave Assisted Synthesis, Characterization of 6-Bromo-Pyrazolo-[1,5-a] Pyrimidine-3-Ethyl-Carboxylate & Its Biological Evaluation as CDKs Inhibitor" in the edited book "Emerging trends in Applied Sciences" (ISBN
18. **Dr. Ganesh N Yallappa1* "**Microwave Assisted Green Synthesis of Paracetamol, Aspirin and their Pharmacological Studies". Futuristic Trends in Chemical, Material Sciences and Nanotechnology". (Accepted).

DEPARTMENT OF MATHS

1. On Some New Stronger Forms Of Fuzzy g**Continuous Functions In Fuzzy Topological Spaces. International J. of Math. Sci. &Engg. Appls. (IJMSEA), ISSN 0973-9424, Vol. 14 No. I (June, 2020), pp. 43-54

2. Regular, Normal and Tychonoff Spaces of $\boldsymbol{fg}$##−closed set in Fuzzy Topological Spaces. Int. J. Adv. Sci. Eng. Vol.5 No.4 1154-1157 (2019) ,1154, E-ISSN: 2349 5359; P-ISSN: 2454-9967

3. Fuzzy $\boldsymbol{g}$##- Connectedness in Fuzzy Topological Spaces. Int. J. Adv. Sci. Eng. Vol.5 No.3 1017-1020 (2019), 1017, E-ISSN: 2349 5359; P-ISSN: 2454-9967

4. Comparative Study of Fuzzy $\boldsymbol{g}$− ∗Closed Set with other Fuzzy Closed Sets in Fuzzy Topological Spaces. Int. J. Adv. Sci. Eng. Vol.5 No.3 1045-1051 (2019), 1045, E-ISSN: 2349 5359; P-ISSN: 2454-9967

5. On Fuzzy strongly g**- closed set in Fuzzy Topological Space. Int. J. Adv. Sci. Eng. Vol.4 No.4 737-739 (2018), 737, ISSN 2349 5359.

6. On Some forms of fuzzy wg**- Continuous functions in Fuzzy Topological Spaces. Int. J. Adv. Sci. Eng. Vol.5 No.2 901-905 (2018), 901, E-ISSN: 2349 5359; P-ISSN: 2454-9967

1. Rajendra Prasad K C, Niranjan K M and Venkanagouda M Goudar, "Vertex semi-middle graph of a graph", Malaya Journal of Matematik. 7(4). 786-789, 2019. https://doi.org/10.26637/MJM0704/0025.

2. Rajendra Prasad KC, Venkanagouda M. Goudar and Niranjan KM, "Pathos vertex semi-middle graph of a tree", South East Asian J. of Mathematics and Mathematical Sciences, 16(1), 171-176, 2020.

3. Rajendra Prasad K C, Niranjan K M and Venkanagouda M Goudar, "Vertex semi middle domination in graphs", Jour of Adv Research in Dynamical & Control Systems, 12(8), 83-89, 2020. DOI: 10.5373/JARDCS/V12I8/20202449 .

4. Rajendra Prasad, Venkanagouda M. Goudar and K.M. Niranjan, "Pathos edge semi-middle graph of a tree", Malaya Journal of Matematik, 8(4), 2190-2193, 2020.
DOI: https://doi.org/10.26637/MJM0804/0147.

5. A. Alhadhrami, B. M. Prasanna , Rajendra Prasad K. C. , K. Sarada and Hassan A. H. Alzahrani, "Heat and Mass Transfer Analysis in Chemically Reacting Flow of Non-Newtonian Liquid with Local Thermal Non-Equilibrium Conditions: A Comparative Study", Energies, *14*(16), 5019, 2021. DOI: https://doi.org/10.3390/en14165019

6. Jayaprakash MC, Mallikarjuna HB, Megalamani SB, Nirmala T, Rajendra Prasad KC, "Significance of thermal radiation on dusty fluid flow over a stretching rotating disk with convective boundary condition", Heat Transfer, 1-15, 2021. DOI: https://doi.org/10.1002/htj.22197

7. A Alhadhrami, Hassan AH Alzahrani, BM Prasanna, N Madhukeshwara, KC Rajendraprasad, DB Ganesh, MC Jayaprakash "Impact of Stefan blowing and magnetic dipole on bio-convective flow of Maxwell nanofluid over a stretching sheet", Proceedings of the Institution of Mechanical Engineerqs, Part E: Journal of Process Mechanical Engineering , 1-14, 2021. DOI: 10.117/09544089211058107

8. Niranjan KM, Rajendra Prasad KC, Venkanagouda M Goudar, Dupadahalli Basavaraja, Forbidden Subgraphs for Planar Vertex Semi-Middle Graph, JNNCE Journal of Engineering and Management, 5(2) (2022) 44-47.

9. Venkanagouda M Goudar, Rajendra Prasad KC, Niranjan KM, Split Domination Number in Vertex Semi-Middle Graph, International Journal of Mathematics Trends and Technology, 68(4)(2022) 18-22.

10. Niranjan KM, Rajendra Prasad KC, Venkanagouda M Goudar, Nonsplit Domination Number in Vertex Semi-Middle Graph, International Journal of Statistics and Applied Mathematics,2022;7;4;105-109.

11. Venkanagouda M Goudar, KM Niranjan, KC Rajendra Prasad, "Edge Semi Middle Domination in Graphs", Journal of Mathematics and Statistics Research 4(2)(2022) 159.

12. Venkanagouda M goudar, K C Rajendra Prasad, K M Niranjan, "Split Domination Number in Edge Semi-Middle Graph", Pan-American Journal of Mathematics 1 (2022).

DEPARTMENT OF PHYSICS

1. N. Chandramma, B M Manohara, B S Ujjinappa, G J Shankarmurthy. Structural and electrical properties of Zinc doped Nickel ferrites nanoparticles prepared via facile combuston technique. Journal of Alloys and Compounds, 702, 479-488.

2. M V Santhosh Kumar, G J Shankarmurthy, E Melagiriyappa, K K Nagaraja, Ashok R Lamani, B M Harish. Materials Research Express,5, 2018.

3. B M Praveen, B M Prasanna, Narayana Hebbar, P. Shivakeshava Kumar, M R Jagadeesh. Experimental and Theoretical Studies on Inhibition effect of the Praziquantel on Mild Steel Corrosion in 1M HCl. Jouenal of Bio and Tribo Corrosion, 2018, 4:21.