B.M.S. COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous College under VTU)

DEPARTMENT OF CHEMISTRY

Activities of the Year 2017

1. Dr Madhu G, Assistant Professor, Department of Chemistry, Research scholar Madhuri P Rao published a research paper titled: "Part II: Diastereoselective Reactions Involving β-Mono- and β,β′-Disubstituted Alkylidene Oxindoles: Pondering Alkene Geometry" in the International journal Asian journal of Chemistry published by Wiley, on December 14th 2017, as per DOI: 10.1002/ajoc.201700593.
2. Dr Madhu G, Assistant Professor, Department of Chemistry, Research scholars Madhuri P Rao and Shruti J Mirajakar published a research paper titled: "Part I: Diastereoselective Reactions Involving β-Mono- and β,β′-Disubstituted Alkylidene Oxindoles: Pondering Alkene Geometry" in the International journal Asian Journal of Chemistry published by Wiley, on December 20th 2017, as per DOI: 10.1002/ajoc.201700410.
3. Dr Madhu G, Assistant Professor, Department of Chemistry, Research scholar Madhuri P Rao presented a conference paper titled: "A Diastereoselective Formal [3+2]-Cycloaddition Route to Construct Oxindole Spirocycles" in the National Conference organized by Indian Chemical Society held on December 25th 2017, as per 2017, *54*, C12 (Proceedings of the 54th Annual convention of Chemists).
4. Dr Kalyan Raj, Associate Professor, Department of Chemistry, Research scholar Malini S published a research paper titled: **"**CYCLIC VOLTAMMETRIC STUDIES OF THE INTERACTION OF RIZATRIPTAN BENZOATE WITH COPPER IN AQUEOUS SOLUTION" in the INTERNATIONAL RESEARCH JOURNAL OF PHARMACY published by December 2017, Vol. : 10(8), PP : 1-5.
5. Dr Kalyan Raj, Associate Professor, Department of Chemistry, Research scholar Malini S published a research paper titled: **"**Electrochemical and spectroscopic studies of Interaction of Clopidogrel Bisulphate with calf thymus DNA" in the International journal Asian journal of Chemistry published by November 2017, *Vol. : 35(1), PP : 129-132*
6. Dr. M S Dharmaprakash, Professor, Department of Chemistry attended a BOE meeting on 20th Nov'2017 at SIT.
7. Dr. M S Dharmaprakash, Professor, and Research scholar Manjunatha S published a research paper titled: **"**Moss-Burstein effect in stable, cubic ZrO2: Eu+3 nanophosphors derived from rapid microwave-assisted solution-combustion technique" in the International journal published by Materials Research Bulletin *2017 Vol. : 98(2018), PP : 139-147*

8. Dr. M S Dharmaprakash,Professor, K L Nagashree, Assistant Professor and Research scholar M Shivakumar published a research paper titled: **"**Corrosion Inhibition Performance of Lignin Extracted from Black Liquor on Mild Steel in 0.5 M H_2SO_4 Acidic Media" in the International journal published by *Portugaliae Electrochimica Acta 2017 Vol. : 35(6), PP :* 351-359
9. Dr. M S Dharmaprakash, Professor, Department of Chemistry attended a MOOCs workshop on 29th Oct'2017 in the International conference IEEE MITE-2017 organized by BMSCE.
10. Dr Kalyan Raj, Associate Professor, Department of Chemistry, participates in the International conference IEEE MITE-2017 on 27-28, Oct'2017 organized by BMSCE.
11. Dr. M S Dharmaprakash, Professor , Department of Chemistry sanctioned with K-FIST level-2, VGST grants for the project title **"**Fluoride removal in potable water using zirconia based hybrid Nano materials - A remedy for fluoride water treatment"
12. Dr. Ananthnag G S, Assistant Professor and Dr. Vijayendra Shetti, Assistant Professor, published a research paper titled: **"**Synthesis, structure and catalysis of organometallicporphyrin–pincer hybrids: a review**"** in the International journal "DaltonTransactions" published by Royal Society of Chemistry(RSC). October 2017; Vol.: 46, PP: 14062–14082
13. Dr Kalyan Raj, Associate Professor, Department of Chemistry, published a research Paper titled "Ruthenium(Iii) Catalyzed And Uncatalyzed Oxidation Of Pregabalin By Acidic Chloramine-T: Kinetic And Mechanistic Approach" In The International Research Journal Of Pharmacy 2017, Vol.8(8) 62-69 DOI:10.7897/2230-8407.088146 Approved for publication: 28/08/17
14. Dr Vijayendra S. Shetti of Chemistry Dept., BMSCE delivered an invited talk Heteroporphyrinoids, their conjugates and Polyazulene at an International Conference on Emerging Trends in Chemical Sciences (ICETCS-2017) organized by Dept. of Chemistry, Manipal University during 14-16 Sept. 2017. He also chaired a technical session and was a judge for poster sessions during the conference.
15. PhD – Thesis defence, viva voce examination of Mr.S Manjunatha, Research Scholar was held on 14th Sept'2017; Thesis title;"Synthesis and investigation of structural optical and photoluminescence properties of pure and rare earth doped zirconia nanophosphors" under the guidance of Dr. M S Dharmaprakash, Professor.
16. All non – teaching staff attend a workshop from 1st – 3rd Aug'2017 on " Good practices in Laboratory" organized by Department of Chemical & IEM, BMSCE.
17. Dr. Kalyan Raj Attended two weeks ISTE-STTP from 17thto 28th July 2017 on "advances in Finite Element Methods and Applications" organized by ISTE, BMSEC.

18. Dr.Kirti Agarwal, Professor, Department of Chemistry assumed charge as Head of the Department of Chemistry on 13th June 2017. Dr.M S Dharmaprakash, Professor & Head, handed over the charge.

19. Dr. M S Dharmaprakash, Dr. Gurumurthy Hegde (R & D, BMSCE) and Dr. K L Nagashree have applied for Indian patent with application number TEMP/E-1/21150/2017-CHE On 14th June 2017 titled "METHOD FOR FABRICATING NITRITE SENSOR USING BIORENEWABLE BASED PRECUSOR"
20. Dr. Vijayendra Shetti, Assistant Professor, published a research paper titled: "Poly[2(6)-aminoazulene]: synthesis, photophysical properties, and proton conductivity" in the International journal "Organic Chemistry Frontiers" published by Royal Society of Chemistry(RSC). Publication date: 6th March 2017.
21. Dr. M S Dharmaprakash, Professor, HOD & TEQIP-II- Nodle officer, participated in the "GLOBAL PROCUREMENT-2017" @ New Delhi, during on 27-28 Feb 2017
22. Dr. M S Dharmaprakash, Professor & HOD and Dr. K L Nagashree, Asst. Professor, published a research paper titled: "Electrochemical detection of nitrite using glassy carbon electrode modified with silver nanospheres (AgNS) obtained by green synthesis using pre-hydrolysed liquor" in the International journal Electroanalysis. Published online on 17th Feb 2017
23. Dr. Kalyan Raj, Associate Professor Dept. of Chemistry oral presentation in the International Conference on Advances in Science and Engineering (ICASE-2017), held on 20-22 January 2017, at International College Bangkok, Thailand.

    Title of the Paper: "ELECTROCHEMICAL STUDY OF INVITRO INTERACTION OF CLOPIDOGREL BISULPHATE AND ASPRIN"
24. Dr. M S Dharmaprakash, Professor & HOD, presented a research titled: "Eu^{+3} Ion as a Luminescent Probe in ZrO_2: Gd^{+3} Co-Doped" in the 19th International Conference on Nanomaterials and Nanodevices (ICNN 2017) held on Jan 08-09, 2017 organized by World Academy of Science Engineering and Technology , at Singapore. He also chaired a session and was awarded best presentation award.