

# RESUME

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## Prof.T Demappa M.Sc; Ph.D.



### Professor

Department of Post graduate Studies and Research in Polymer Science  
University of Mysore  
Sir M Visvesvaraya Post Graduate Centre  
Industrial Area, Tubinakere, Mandya-571402

### Research Area

Chemical kinetics, Redox polymerization kinetics, Redox polymerization: Synthesis and characterization; Polymer Blends; Polymer composites; Synthesis of Co-polymers; Polymer Grafting; Hydrogels for Bio- medical applications: Drug delivery; Synthesis of Edible Polymer Films for Food Packaging Applications; synthesis and characterization of polymer flocculating/clarification agents in sugarcane juice clarification in Sugar Industries; Electrical, Thermal, Mechanical and Optoelectrical properties of polymer composite Films, and polymer nanocomposites films; Micro-structural and Radiation Effect on polymer Blends and Composites; Wood composites.

### PERSONAL DETAILS

**Date of birth:** January 20<sup>th</sup>, 1962

**Marital status:** Married

**Telephone:** +91-8232-291112 (Department), Mobile: +91-9972875448

**E-mail:** [demappa@uni-mysore.ac.in](mailto:demappa@uni-mysore.ac.in), [tdemappa2003@yahoo.co.in](mailto:tdemappa2003@yahoo.co.in).

**Qualifications:** B. Sc. (UOM-1987): M.Sc. (UOM-1990): Ph. D. (UOM-1998);

**Title of the thesis** "OXIDATION OF SUBSTRATES WITH N-METALLO- N-ARYLHALO SULPHONAMIDES: A KINETIC STUDY"

**Designation:** Professor

## EXPERIENCE

### 25 years of Teaching experience in PG and 31 years of Research experience

M.Sc; Physical Chemistry, Department of Chemistry, Manasagangothri, University of Mysore, Mysore in 1990.

1993 – 1995 Worked as a UPGR Junior Research Fellow Under the Guidance of Prof. S Ananda, in the Dept.of Chemistry, Manasagangothri, University of Mysore, Mysore.

1995-1997 worked as a Senior Research Fellow in the Dept of Chemistry, Manasagangothri, Mysore. Ph.D: Physical Chemistry, Title: “OXIDATION OF SUBSTRATES WITH-N-METALO-N-ARYLHALOSULFONAMIDES: A KINETIC AND MECHANISTIC STUDY”.

1997-1998- Worked as a Part time Lecturer in Chemistry, at Krishna Raja Pre-University College, Krishna Raja Pet, Mandya District.

1997 -1999 Dec Worked as a Part time Lecturer in Chemistry at JSS Arts, Commerce and Science College, Chama Raja nagara.

1998 -1999 Dec Worked as a Part time Lecturer in Chemistry, at Yuvaraja’s College, University of Mysore, Mysore.

Dec 30<sup>th</sup>1999 Joined as a **Lecturer** in Polymer Science, in the Dept of Polymer Science, University of Mysore, Sir M. Visvesvaraya Post-Graduate Centre, Tubinakere, Mandya -571402.

Dec2003 Promoted as a **Senior Scale Lecturer** in Polymer Science, in the Department of Polymer Science.

Dec2008 promoted as a **Reader** in Polymer Science, in the Dept of Polymer Science

Dec 2011 promoted as a **Associate Professor** of Polymer Science, in the Department of Polymer Science

Dec 2014 promoted as a **Professor** of Polymer Science, in the Department of Polymer Science.

## ORIENTATION AND REFRESHER COURSES

30.10.2000 - 25.11.2000, Completed Orientation Course in Mysore University

06.02.2003 - 26.02.2003, attended to Refresher’s Course in Chemistry in Mysore University, Mysore.

21.02.2007-13.03.2007 completed Refresher’s Course in Material Science from Mysore University, Mysore.

11.03.2009-31.03.2009 completed Refresher’s Course in Material Science from Mysore University, Mysore.

## TEACHING EXPERIENCE

Teaching since 1998 to 1999 in Under Graduate B.Sc, Chemistry, at Yuvaraja's College, University of Mysore, Mysore.

Since 1999 to date (Post Graduate )-Teaching M. Sc., Polymer Science, M.Sc. Physical Chemistry. Chemical Thermodynamics, Chemical Kinetics, Physical chemistry of Polymers, Chemistry of High Polymers, Specialty and Functional Polymers, Polymeric Materials, Surface Coatings and Adhesion Technology, Principles polymer Chemistry, Latex and Foam Technology, Polymer supported reagents, Liquid crystal polymers.

Taught Physical chemistry I and II semester M.Sc Chemistry for the academic year 2012-2013, University of Mysore at Sir M Visvesvaraya Post-Graduate Centre, Tubinakere, Mandya.

25 years of Teaching experience in Post graduate Department of Polymer Science, University of Mysore, Sir M.Visvesvaraya Post graduate centre, Industrial Area ,Tubinakere, mandya.

## Other Experiences

Course coordinator for Chemistry, Department of Chemistry, SirM.V PG Centre, Tubinakere, Mandya, University of Mysore, from 2016

Course coordinator for Chemistry, Department of Chemistry, SirM.V PG Centre, Tubinakere, Mandya, University of Mysore, from 20.202018.

Course coordinator for Physics, Department of Physics, Sir M.V PG Centre, Tubinakere, Mandya, University of Mysore, from 27.02. 2022.

Deputy Superintendent of examination from June/ July 2015 to May /June 2016 from the Registrar evaluation, University of Mysore, Mysuru.

Ph.D Course work examination held on 20.11.2015 and 21.11.2015 as chief Superintendent in PET, Mandya.

Room superintendent for Ph.D course work Examination on 29.10.2017 at Dept.of Mathematics, Manasagangothri, University of Mysore, Mysore.

Discharge the duty successfully as a Incharge Director and PG examination Chief Superintendent 18.01.2017.

Discharge the duties as a Incharge Director, SirM.V.PG Center, Tubinakere, Mandya

# RESUME

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Faculty adviser, University Postgraduate Men's Hostel, Sir M.V.PG Centre, Tubinakere, Mandya, since December 2020 till date.2023

Deputy Superintendent of examination from June/ July 2020 to May /June 2022 from the Registrar evaluation, University of Mysore, Mysuru.

## RESEARCH EXPERIENCE

1. Kinetics and mechanism of oxidation of some primary amines and alcohols.
2. Synthesis of polymers by Redox polymerization kinetics using Vinyl monomers in aqueous medium.
3. Miscibility Studies of Water –soluble polymer Blends by Density, Refractive index, Ultrasonic velocity and Viscosity Methods.
4. Preparation and Characterization of Edible polymer films for Food Packaging Applications.
5. Studies on Blends of Polysaccharide Based Natural polymer and their Characterization for Packaging Applications.
6. Synthesis and Characterization of Polymeric Muco adhesive Microspheres for Intranasal Delivery.
7. Studies on Fiber-Clay particle Reinforced Thermoset Polymer Composites
8. Synthesis and Characterization of Hydrogels for Biomedical applications.
9. Grafting of Vinyl monomers onto Natural fibers/Polymers
10. Preparation and Characterization of metal ion incorporated water–soluble polymer composite Films
11. Synthesis and Characterization of co-polymers
12. Preparation and Characterization of nano particles reinforced polymer composite films.
13. Preparation and Characterization Wood composites
14. Synthesis and Characterization of water –borne emulsion paints.
15. Synthesis and characterization of Bio-adhesives / pressure sensitive adhesives for lamination.

## PROJECTS COMPLETED / ON GOING

UGC Minor Research Project- “Miscibility Studies of Water Soluble Polymer Blends Using Density, Refractive index, Ultrasonic velocity and Viscosity Method” Awarded by UGC New Delhi 2010. Amount 1.00 lakh.

## RESEARCH PUBLICATIONS 94(as on Jan 2024)

## PAPERS PRESENTED AT CONFERENCES / SYMPOSIA: (as on July 2021).

**Ph.D. Students Guided Successfully: 07**

**Ph.D. Students working: 08**

**M.Phil. Students guided successfully: 03**

## **DETAILS OF Ph.D. DEGREE AWARDED UNDER MY GUIDANCE**

- 1.K C Basavaraju**, without fellowship, Thesis submitted to the University of Mysore, Mysore on 05-10-2007 and awarded on 08-09.2008. Title of the Thesis: **“STUDIES ON BLENDS OF POLYSACCHARIDE BASED NATURAL POLYMERS AND THEIR CHARACTERIZATION FOR PACKAGING APPLICATION”**
- 2.Mahadevaiah** Rajiv Gandhi National Fellowship awarded 2007, Thesis submitted to the University of Mysore on 16-08-2008 and awarded on 26.12.2009. **Title of the Thesis: Redox Polymerization: A Kinetic Study.**
- 3.Iliger Sudhir Ramaswami**, Ph.D awarded on 10.09.2013 The Thesis entitled **“Polymeric Mucoadhesive Microspheres for Intranasal Delivery”**.
- 4.Mr. T Niranjana Prabhu** Ph.D awarded the degree of Doctor of Philosophy in polymer science of University of Mysore. On 26.11.2014 Title of the Thesis: **“Studies on Fiber- Clay Particle Reinforced Thermo set Polymer Composites”**.
- 5.Mr. Shivakumara LR Ph.D.** awarded the degree of Doctor of Philosophy in Polymer Science of University of Mysore on 18-08-2021. The thesis entitled **“ Synthesis and Characterization of Water-soluble Polymer Based Hydrogels for Biomedical Applications (Novel Drug Delivery System).**
- 6.Mr. Somesh TE** submitted his thesis on 12<sup>th</sup> October 2021, thesis entitled **“ Performance evaluation of modified silver doped nano metaloxides incorporated poly(vinyl alcohol)nanocomposites for electronic applications”**.
- 7.Mr. T Madhusudhana**, submitted his thesis entitled **“SYNTHESIS AND CHARACTERIZATION OF SMART HYDOGELS IN DRUG DELIVERY SYSTEM”** on 26<sup>th</sup> November 2022. Awarded on April 13<sup>th</sup> 2023.
- 8. BN Samartha rama**, submitted his thesis entitled “ ”
- 9. Mr.Raveesha TC** submitted his thesis entitled **“Synthesis, Characterization and Computational Analysis of Heterocyclic Compounds”** was carried

out under my guidance. The candidate has completed the research work and is here by permitted to submit the thesis to the University of Mysore, Mysuru for the award of the Ph.D. degree. **in Chemistry.**

## **DETAILS OF PDF/Post Doctoral DEGREE AWARDED UNDER MY GUIDANCE**

1. **Mahadevaiah** Rajiv Gandhi National Fellowship awarded 2007, Thesis submitted to the University of Mysore on 16-08-2008 And awarded on 26.12.2009

### **Title of the Thesis: Redox Polymerization: A Kinetic Study**

Guided to Post-Doctoral Fellow, UGC Post-Doctoral Fellowship awarded on 04 -02-2011, under my Guidance.

## **DETAILS OF M.Phil. DEGREE AWARDED UNDER MY GUIDANCE**

1. Mr. Sreeraj. KS, Senior Lecturer in chemistry, Indian Academy Group of Institutions, Bangalore -560043. Residential address: #43, 6<sup>th</sup> Cross, Kankanagara, RT Nagar, Bangalore-560032.
2. Mr. Vijaya Shankar Lecturer in chemistry, Bangalore
3. S Mahesh, Lecturer in Chemistry, RV college of Engineering. Bangalore.

## **AWARDINGS**

1. **Rashtriya Shiksha Ratna Award** from Council for Economic Growth & Research New Delhi February **2007**.
2. **Dr. Abdul Kalam Life Time Achievement National Award** for the remarkable achievements in the field of Teaching, Research and Publications. The purpose of the Award is to Recognize, Honour, and Encourage and promotes our Profession. International Institute for Social and Economic Reforms ® Govt.of India, New Delhi. **2014**. Conferred by President Planning Commission, Government of India.
3. **Marquis Who's Who in the World®** this impressive distinction, reserved for less than 3% of Professionals world-wide ! **2019**
4. **Life Member LM082304** This is to certify that T.Demappa has been admitted as a Life Member on the Twenty Seventh day of September **2023** and is hereby entitled to all its honours and Privileges. **Institute of Researchers , Wayanad, Kerala (India), Government of India**

5. **Sir CV Raman Prize 2023 awarded** to Dr.T.Demappa, M.Sc, Ph.D. Professor , Department of Post graduate Studies and Research in Polymer Science , Sir M Visvesvaraya Post Graduate Centre, University of Mysore, Karnataka, India,in recognition of his outstanding professional and Research Achievements in the field of Polymer Science on the Twenty Seventh day of September **2023** and is hereby entitled to all its honours and Privileges. **Institute of Researchers , Wayanad,Kerala (India), Government of India**
  
6. **Research Excellence award 2023 awarded** to Dr.T.Demappa, M.Sc, Ph.D. Professor , Department of Post graduate Studies and Research in Polymer Science , Sir M Visvesvaraya Post Graduate Centre, University of Mysore, Karnataka, India,in recognition of his outstanding professional and Research Achievements in the field of Polymer Science on the Twenty Seventh day of September **2023** and is hereby entitled to all its honours and Privileges. **Institute of Researchers , Wayanad,Kerala (India), Government of India**
  
- 7.**Certificate of participation This is to certify that Dr.T.Demappa Professor, Department of post Graduate studies and Research in Polymer Science, University of Mysore,Mysore, Karnataka,India. Has participated and presented a Paper Titled on “ POLYMERS (HYDROGELS) IN BIOMEDICAL APPLICATIONS: A NOVEL CONTROLLED DRUG DELIVERY SYSTEM” in the International Conference on Recent Advances in Bio-Polymers and Polymer Chemistry - ICRA BPC held on October -2023 Online Mode,Organized by VDGGOOD Professional Association India Brainy Meet <https://www.brainymeet.com/>**
  
- 8.**CERTIFICATE OF ACHIEVEMENT** has been Awarded **OUTSTANDING RESEARCHER IN POLYMER SCIENCE** in the International Conference on Recent Advances in BIO-Polymers and Polymer Chemistry, held on 28 -Oct-2023, Organized by VDGGOOD Professional Association, India.
  
- 9.**Certificate of Membership** This is to certify that Dr.T.Demappa, Professor, Department of Post Graduate Studies and research in Polymer Scienmce ,University of Mysore,Mysore,Karnataka,India. Has completed Organization Mission and now a Active Member of VDGGOOD professional Association in this Oct 2023.

## SOME IMPORTANT RESEARCH PUBLICATIONS



1. Ruthenium (III) Catalyzed Kinetics of Oxidation of Primary Alcohols by Bromamine –B in Hydrochloric acid Solution *Journal of SYNTH.REACT.INORG.MET-ORG. CHEM* Vol. 28 (4) 649- 667 (1998)
2. Oxidation of Some Primary Amines by Bromamine-T in Alkaline Medium: a Kinetic and Mechanistic Study *Journal of Transaction of the Illinois State Academy of Science, (USA).* **Vol. 93, # 1, 25- 38 (2000)**
3. Preparation of Chitosan films and its Miscibility Studies with Gelatin Using Viscosity, Ultrasonic and Refractive index *Journal of Carbohydrate polymers* 66(2006) 357-362
4. Miscibility Studies of Polysaccharide Xanthan gum PEO (Polyethylene Oxide in dilute solution *Journal of Carbohydrate Polymers, 2007 Volume 69, issue 3 , 462-466*
5. Miscibility Studies of Hydroxy Propyl Methyl Cellulose and Poly(ethylene oxide) by Viscosity, Ultrasonic, and Refractometric Methods [Journal of Macromolecular Science,](#) **Part B, Volume 47, Issue 3** May 2008, pages 417 – 425
6. Micro structural parameters in Electron beam irradiated HPMC films using X-ray line profile analysis *Journal of Applied Polymer Science,* Vol.109,3983 –3990 (2008).
7. Miscibility studies of HPMC / PVA Blends in water by Viscosity, density, refractive index and ultrasonic velocity method *Journal of Carbohydrate Polymers,*74 (2008)779- 782
8. Physical and thermal properties of 8 MeV electron beam irradiated HPMC polymer films. **Nuclear Instruments and Methods in Physics Research B** 266(2008) 3975-3980
- 9 Miscibility Studies of Xanthan gum with Gelatin in dilute Solution *Journal of Applied Polymer Science* Vol.109,Issue4, 2491-2495 ( 2008)
10. Micro structural parameters of Hydroxy Propyl Methyl cellulose (HPMC) films using X-ray data. *Iranian Polymer Journal* 17(11), 2008, 821-829
- 11 Miscibility studies of HPMC / PEG Blends in water by Viscosity, density, refractive index and ultrasonic velocity method *Journal of Carbohydrate Polymers,* 75(2009)484 – 488.
- 12 Spectroscopic and thermal studies of 8 MeV electron beam irradiated HPMC films **Nuclear Instruments and Methods in Physics Research,** B Vol.267,( 2009) 2385 -2389.
13. Formulation and characterization of mucoadhesive microspheres of verapamil hydrochloride in blends of gelatin a /chitosan for nasal delivery. **Journal of Pharmacy Research** 2010, 3(10), ISSN: 0974-6943.



14. Formulation and Characterization of Mucoadhesive Microspheres of Promethazine hydrochloride for nasal delivery *Journal of Pharmacy Research* 2011, 4(1),276 -279 ISSN: 0974-6943.
15. Polymeric degradation of water soluble chitosan/HPMC films using WAXS data *Journal of Materials Research Innovations* Vol.16. Issue No.2 2012, 126-129.
16. Characterization of HPMC/PVP polymer blend films Using WAXS technique *American Institute of Physics*.
17. Mechanical, thermal and Flame- retardant properties of epoxy-nylon fabric –clay hybrid laminates. *High Performance Polymers* 25(5) 559 -565 (2013).
18. Effect of Microwave Radiation on Hydroxy propylmethyl Cellulose polymer films and HPMC/Poly( vinyl pyrrolidone) polymer blend films using the wide-angle x- ray technique *Radiation Effects and Defects in Solids: Incorporating Plasma Science and Plasma Technology* , 2013, pp 1-12
19. Gamma radiation induced conductivity control and characterization of Structural and thermal properties of Hydroxy propyl methyl cellulose (HPMC) polymer complexed with sodium iodide (NaI) *Advanced in Applied Science Research* ,2013,4(3): 195-219
20. Structural, thermal and electrical studies of sodium iodide (NaI) doped hydroxyl propyl methyl cellulose (HPMC) polymer electrolyte films. *Ionics* (2014)20:201-207. DOI 10.1007/s11581-013- 0952-8
21. Characterization of Zinc Nanoferrite Doped HPMC Polymers Using X- Ray Diffraction. *Journal of Nuclear Physics, Material Sciences, Radiation and Applications*. Vol. 1. No.2 February 2014, pp201-205.
22. Stacking Faults and Micro structural Parameters in Epoxy – Nylon Fabric – Clay Hybrid Laminates Using X- ray Whole Powder Pattern Fitting Technique *International Journal of Latest Technology in Engineering Management and Applied Sciences*. Volume III, Issue VII, July 2014 ISSN 2278-2540
23. Thermal degradation kinetics, mechanical, and flame retardant properties of epoxy-HDPE fabric-clay composite laminates *Journal of Applied Polymer Science* Volume 131, Issue 18, 15 September 2014
24. Gamma radiation induced effects on structural and thermal properties of hydroxy propyl methyl cellulose (HPMC) polymer films *International Journal of Research*, vol-2(1) pp 38–42. 2014
25. Gamma irradiation effects on Structural, thermal and electrical conductivity of ceric ammonium nitrate (CAN) doped HPMC based biopolymer electrolyte films *IOSR Journal of Applied Physics (IOSR – JAP)*, Volume 6, issue 3, PP 30-41,2014.

26. Effects of CdCl<sub>2</sub> concentration on the structural, thermal and ionic conductivity properties of HPMC polymer electrolyte films ***Ionics***(2015) 21:133–140 DOI 10.1007/s11581-014-1151-y
27. Synergistic effect of clay and polypropylene short fibers in Epoxy-Polypropylene Short fibers - Clay Ternary Composite Hybrids ***Advances in Material Research, an international journal*** Vol.4 issue 2, page 97- 111 year 8.9.2015 Publisher: Techno- press (Korea)
28. Mechanical and Barrier properties of Hydroxy propyl methyl cellulose (HPMC) Edible Polymer Films with Plasticizers combinations ***Journal food processing and preservation*** Manuscript ID JFPP 13020 Accepted
29. Formulation and evaluation of Mucoadhesive Bilayered Buccal Tablets of Zolmitriptan using Spray dried Gelatin. ***Universal Journal of Pharmacy***, UJP 2016, 05 (04): Page ISSN 2320-303X
30. Formulation and Evaluation of Topical Liposomes of an Antifungal Drug. ***Unique Journal of Pharmaceutical and Biological Sciences UJPBS*** 2017, 05 (02): page 1-8. ISSN 2347-3614
31. A Study on Refractive index, Orientational Order Parameter and Distribution Function in the Nematic Phase of a Nematogenic Compound. ***Molecular Crystals and Liquid Crystals*** 2017, Vol.646, 176- 182.
32. Effect of Clay Nano Particles and Polypropylene Short fibers in Epoxy Based Composites. Twenty-sixth International Conference on the ***Processing and Fabrication of the Advanced Materials (PFAM-XXVI)***. PPMC-007 **South Korea**.
33. A study on Microbial activity of Nano-sized CuO synthesized by Microwave radiation Assimilation. ***Journal of experimental Zoology India***. Vol.24, No.2, pp 967-972, 2021. ISSN 0972-0030 eSSN 0976-1780
34. Analysis of supramolecular self-assembly of two chromene derivatives: Synthesis, crystal structure, Hirshfeld surface, quantum computational and molecular docking studies  
***Journal of Molecular Structure*** 1225 (2021) 129104
35. Formulation and Evaluation of Orodispersive Tablets of an Ant-diabetic drug.  
***Unique Journal of Pharmaceutical and biological Sciences*** (2020), 08,(05), ISSN 2347-3614
36. Influence of NaF salt doping on electrical and optical properties of PVA/PVP polymer blend electrolyte films for battery application. ***J Mater Sci: Mater Electron*** 30<sup>th</sup> January 2021  
doi.org/10.1007/s10854-021-05274-1 Springer publications.
37. **Controlled drug release of levo-florfenicol from poly (acrylamide) hydrogel**  
***International Journal of Research in Pharmaceutical Sciences***, 2021, 12(2), 1-7
38. Miscibility study of poly(ethylene oxide)/carboxymethyl cellulose blend  
***International Journal of Polymer Analysis and Characterization*** 2021, Vol.26, No.7, 561-572

**Publisher: Taylor and Francis. <https://doi.org/10.1080/1023666X.2021.1921502>**

**39. Synthesis and Characterization of Poly(acrylamide) Hydrogels as pH and Salt Sensitive Material**

*Asian Journal of Chemistry; Vol. 33, No. 5 (2021), 1019-1024*

<https://doi.org/10.14233/ajchem.2021.23124>

**40. Polymer nanocomposites comprising PVA matrix and AgGaO<sub>2</sub> nanofillers: Probing the effect of intercalation on optical and dielectric response for optoelectronic applications.**

**INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY, 2021;14(x):1–11**

**41. Poly( acrylamide -co-acrylic acid ) synthesized ,moxifloxacin drug -loaded hydrogel:**

**Characterization and evaluation Studies.**

**Journal of Applied Pharmaceutical Sciences, August 2021, pp 001 -008.**

## **Organization of Conference/Symposium/Workshops**

**One day Work shop on Polymers organized by Professor T Demappa ,in the Department of Polymer Science, Resource persons : 1 Radhika Varshney 2 Ashuthosh Panchal , Research scholars , Indian Institute of Science Bangalore on 14<sup>th</sup> December 2023.**

## **PAPERS PRESENTED AT CONFERENCES/SYMPOSIA /MEETINGS Organization o**

**81 One day National Conference on “ Advancement in Chemistry and Medicinal Chemistry” (ACMC-2023) held on 9<sup>th</sup> December 2023 , Organized by the Department of Chemistry UG, Pg, RC & IQAC , Bharathi College, Bharathinagara. My student r. T n Seshan got First prize in Poster presentation.**

**80 Two Days International conference held at BITS Pilani University Campus DUBAI, United Arab Emirates . Paper presented (Oral) on 16-11-2023.**

# RESUME

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**79. Four Days faculty Development Program on Recent Trends in Polymer Processing, Product Design and Applied Rheology 9<sup>th</sup> -12<sup>th</sup> August 2023 Sponsered By**

**Vision Group on Science and Technology Government of Karnataka Organized by Department of Polymer Science and Technology Sri Jayachamarajendra College of Engineering, JSSSTU, JSS TI Campus, Mysuru-570006**

**Attended**

**78149 T.N.Seshan and T.Demappa**

**Synthesis and Characterization of CMC/ZnO Polymer Nanocomposites Films for Electronics Applications.**

**International Conference On Materials for Health, Energy and Environment (AMHEE-2023), 28 February -02 March 2023 held at Sri Jayachamarajendra College of engineering ,JSS Technological Campus, Mysuru-570006**

**Oral Presentation**

**77.148 T.N.Seshan and T.Demappa**

**A Comparative Study of NiO/Go and NiO/RGO Hybrid Nanocomposites Incorporated PVA Nanocomposites Films.**

**Three days International Conference on Nano Composites for Aerospace Applications (ICNCAS -2023) Held at the department of Basic Sciences and Electronics & Communication Engineering, Cambridge Institute of Technology, Bangalore , India. 2<sup>nd</sup> to 4<sup>th</sup> February 2023.**

**Oral presentation**

**76147 Seshan T .N. and T.Demappa**

**Synthesis and Characterization of CMC/ZnO Polymer nano composite films for Electronic Applications.**

**Paper ID: N-4002**

**Area : Semiconductor Nanostructure & Devices**

**International Symposium on Semiconductor Materials and Devices (ISSMD- 2022) from 16<sup>th</sup> -18<sup>th</sup> December 2022 , at School of Electronics Engineering, KIIT (Demmed to be University), Bhubaneswar, Odisha, India.**

**Organized by School of Electronics Engineering, KIIT- Deemed to be University and Semiconductor Society (India) in Co-operation with Society of Semiconductor Devices.**

**75 146 POLYMERS ON ENERGY, HEALTH AND ENVIRONMENTAL APPLICATIONS**

**On 27- 10-2021 Invited speak ,Session 9.**

**Advanced Polymers for Energy Conversion**

**CAMBRIDGE INSTITUTE OF TECHNOLOGY** Approved by AICTE, New Delhi, Affiliated to VTU Belagavi Recognized by Govt.of Kranataka Accredited by NBA & NAAC  
**AICTE SPONSORED FIVE DAYS FDP ON 25<sup>th</sup> to 29<sup>th</sup> October 2021 organized by Department of Basic Sciences**

**145** LR SHIVAKUMARA and T DEMAPPA\*

Synthesis and Swelling Behavior of Sodium Alginate / Poly (vinyl alcohol) Hydrogels

**Oral Presentation(OP9)**

**144** Sreevidya AV, and T Demappa

STRUCTURAL MODIFICATION OF GELATIN THROUGH GRAFT COPOLYMERIZATION USING ACRYLONITRILE MONOMER

**Oral Presentation(OP8)**

**143** Vishnu G Nair and T Demappa

PREPARATION OF PLASTICIZED EDIBLE POLYMER FILMS FOR FOOD PACKAGING APPLICATIONS

**Oral Presentation(OP7)**

**142** T N SESHAN ; LR SHIVAKUMARA; and T.DEMAPPA\*

INVESTIGATIONS OF MECHANICAL PROPERTIES ON SAWDUST REINFORCED EPOXY POLYMER COMPOSITES/WOOD COMPOSITES

**Oral Presentation(OP6)**

**141** B A Pooja; and T.Demappa **HPMC/PVA Immiscible polymer blends converted into miscible polymer blends Using Graphene Oxide**

**Oral Presentation(OP5)**

**140** Sruthi P and T.Demappa\* **Graft copolymerization of acrylonitrile onto banana cellulose fiber**

## Oral Presentation (OP4)

**139 J Manasa** and T.Demappa\* ECONOMIC IMPORTANCE AND INDUSTRIAL APPLICATIONS OF NATURAL FIBRES /POLYMERS

## First Prize in Oral presentation(OP3)

**138 Mahadevaiah;** and T.Demappa. Development of HPMC/PEG Immiscible polymer blends to Miscible polymer blends by using Graphene oxide nanoparticles.

## Oral Presentation (OP2)

**137 Chaithanya.S<sup>a</sup>** ; K.S.Rangappa<sup>b</sup> ; and T.Demappa<sup>a</sup> \* Chitosan / HPMC Immiscible Polymer blends are converted to Miscible Polymer blends by using Graphene Oxide

## Oral Presentation (OP1)

**136 74. National Conference on Recent Advances in Physics for Interdisciplinary Development (RAPID- 2k21),29<sup>th</sup> -30<sup>th</sup> September,2021, S.J.V.P College,Harihara, Karnataka, Oranized by Sri Saila Jagadguru Vagesha Panditharadya (S.J.V.P) College and PG Centre Hariahara in Collaboration with Public Awareness Institution (PAI),®, Mysore.**

**As Invited Speaker and Session Chairman**

**135 73 Grafting of Banana cellulose. International Online Conference on Macromolecules (ICM 2020)“100 years of Polymer Science –from past to Future “.**

**Organized by Mahatma Gandhi University, P.D.Hills , P .O, Kottayam,Kerala ,India.& Gdansk UNiversityof Technology, Gdansk,Poland. November 13<sup>th</sup> 2020 – 15<sup>th</sup> November 2020.**

**134 72 Grafting of Natural Fibers/Banana cellulose, Two Days National conference on “Advanced Functional Materials and Engineering”**

21.10.2020 and 22.10.2020.P.K.R. Arts Collge for Women Accredited “A” Grade by **NAAC**, An Autonomous Institution Affiliated to **BHARATHIAR** University,Gopichettipalayam ,Department of Physics.

**133 71T Demappa** has attended **One day National Webinar** on “ **Perspectives in Modern Physics” Department of Physics , Jnanasahyadri , Kuvempu University, Shankaraghatta ,Shivamoga on 29<sup>th</sup> August 2020.**

**13270**T.Demappa has Attended **TEQIP –III Sponsored One Week – Faculty Development Progranne National Webinar** on “**Advanced or Smart Processing Technology**” on 10<sup>th</sup> to 14<sup>th</sup> August 2020 at **Department of Polymer Science and Technology** ,Sri Jayachamarajendra College of Engineering , JSS Science & Technology University, Mysore -6.

**13169** T.Demappa, has Delivered a invited Talk on “**Thermal,Mechanical, Electrical and Optical Properties of Polymer Composite Films**” in **International Symposium on Advanced Research in Physics** organized Jointly by the **Department of Physics , Bangalore University , Bangaluru** and **Sir M Visvesvaraya –ISRO Chair, Bangalore University, Bangaluru, India** during **27July 2020**.

**13068** T.Demappa Attended **Online panel Discussion** on “**Progression of Polymer Education and Polymer Industry**” Department of Polymer Science and Technology, JSS Science and Technology University, Mysore On 18<sup>th</sup> July 2020 11am – 1pm

**129 67** T.Demappa **3 –Day National level Online FDP/SDP Webinar** on “**Recent Developments in Material Science and Radiation Technology**” , Department of Physics held from 8<sup>th</sup> July – 10<sup>th</sup> July 2020 , Vidyavardhaka College of Engineering ,Accredited by NAAC with “A” grade , Gokulam III Stage , Mysuru.Resource person: Prof.K N . Mohana Webinar on **Metallic Corrosion and Graphene – Based Ant- Corrosion Coating Materials** Dept of Chemistry Vidyavardhaka College of Engineering, Mysore 17<sup>th</sup> July 2020

### Attended

**12866** T.Demappa **3 – day National Level FDP/ SDP Webinar** on “**Recent Developments in Material Science and Radiation Technology**”, Department of Physics held from 8<sup>th</sup> July – 10<sup>th</sup> July 2020 , Vidyavardhaka College of Engineering, Accredited by NAAC with “A” grade , Gokulam III Stage , Mysuru. **Invited Talk** on **Polymer Composites**.

**127 65**.T.Demappa, “**Industrial and Economic Importance of Natural Fibers/Polymers**”International Conference on Emerging Trends in Multidisciplinary Research (**ICETMR- 2020**). The International conference Jointly Organised by Gulf American University and Arunai International Research Foundation to be held at DUBAI on 8<sup>th</sup> and 9<sup>th</sup> May 2020. I am invited as a **Key note** speaker.

**12664**Samartha Rama B N<sup>1</sup>, Nagaiah N<sup>2\*</sup>, Hadadi Yallappa<sup>1</sup>; and **T.Demappa**<sup>3\*</sup>



Miscibility Studies of Polyethylene oxide/Carboxy methyl cellulose blend

Second International Conference on Advanced Materials & Technology (ICMAT-20)

16<sup>th</sup> – 18<sup>th</sup> , January 2020 TEQIP –III Initiative, Organized by JSS Mahavidyapeetha JSS Science and Technology University Sri Jayachamarajendra College of Engineering Mysuru-570 006, Karnataka , India . In association with Chanbuk National University, South Korea & MLV Textile & Engineering College ,Bhilwara.

Oral presentaion **TS24#04 page NO 217**

**125**Hadadi Yallappa<sup>1</sup>, J. Sannappa<sup>2</sup>,Samartharama.B.N. <sup>1</sup>, L. R. Shivakumara<sup>3</sup> and T. Demappa<sup>4\*</sup>

Miscibility Studies of HPMC/PEG Blend Films with Surfactant using XRD Technique Before and after Gamma irradiation.

Second International Conference on Advanced Materials & Technology (ICMAT-20)

16<sup>th</sup> – 18<sup>th</sup> , January 2020 TEQIP –III Initiative, Organized by JSS Mahavidyapeetha JSS Science and Technology University Sri Jayachamarajendra College of Engineering Mysuru-570 006, Karnataka , India . In association with Chanbuk National University, South Korea & MLV Textile & Engineering College ,Bhilwara.

Oral presentation **TS24#02 page No.215**

**124** T.Demappa and L.R. Shivakumara

STRUCTURAL MODIFICATION OF NATURAL FIBERS

Invited Talk and Tecnical Session chairman.

Second International Conference on Advanced Materials & Technology (ICMAT-20)

16<sup>th</sup> – 18<sup>th</sup> , January 2020 TEQIP –III Initiative, Organized by JSS Mahavidyapeetha JSS Science and Technology University Sri Jayachamarajendra College of Engineering Mysuru-570 006, Karnataka , India . In association with Chanbuk National University, South Korea & MLV Textile & Engineering College ,Bhilwara.

INV 27, Page 57.

**12363.** T Demappa “Industrial Applications and Economical importance of Natural fibers/polymers”International conference on Advanced Functional Materials for Energy, Environment and Health care (AFMEEHC) organized by Center for Materials Science and Technology, Vijnan Bhavan, University of Mysore, Manasagangothri, Mysore Sponsored by University with Potential for Excellence (UPE).Oral presentation, **Invited talk** and **Chairman of the Technical Session A** Hadadi Yallappa<sup>1</sup>; J.Sannappa<sup>2</sup>;B.N.Samartha Rama<sup>1</sup>and T.Demappa<sup>3</sup>  
\*

**122**Miscibility studies of HPMC/PEG blend films using FTIR before and after Gamma ( $\gamma$ ) Irradiation International conference on Advanced Functional Materials for Energy, Environment and

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Health care (AFMEEHC) organized by Center for Materials Science and Technology, Vijnan Bhavan, University of Mysore, Manasagangothri, Mysore Sponsored by University with Potential for Excellence (UPE).

**121B** Samarta Rama International conference on Advanced Functional Materials for Energy, Environment and Health care (AFMEEHC) organized by Center for Materials Science and Technology, Vijnan Bhavan, University of Mysore, Manasagangothri, Mysore Sponsored by University with Potential International conference o for Excellence(UPE).

**120K** Vijayashree International conference on Advanced Functional Materials for Energy, Environment and Health care (AFMEEHC) organized by Center for Materials Science and Technology, Vijnan Bhavan, University of Mysore, Manasagangothri, Mysore Sponsored by University with Potential for Excellence(UPE). March 18-20, 2019.

**11962.T** Demappa. has actively Participated in an one week faculty development program on “Recent Trends in Smart Materials and their Applications” sponsored by TEQIP – III from 13<sup>th</sup> to 17<sup>th</sup> November 2018 jointly organized by Department of Polymer Science and Technology & Department of Physics, SJCE, JSS Science and Technology University, Mysuru.

**11861.T** Demappa. Participated in the **International Conference** on Recent Trends in Humanities and Science during 25-27 October 2018. Has presented a research article on “Economic and Industrial Importance of Natural Fibers/Polymers” held at Universiti Tunku Abdul Rahman, **Malaysia** jointly organized by Arunai International Research Foundation, Haldia Institute of Technology and Universiti Tunku Abdul Rahman.

**11760.T Demappa**, T Niranjana Prabhu, Mahadevaiah and R.L.Jagadish. Thermal Degradation Kinetics, Mechanical and Flame Retardant Properties of Epoxy HDPE Fabric Composite Laminates. Oral presentation in **International Conference** on Nano materials and Their Applications held at Vijnan Bhavan, Manasagangothri, University of Mysore, Mysore, on March 1-2, 2018. PO-84

**116.** Sudhir R.Iliger, Preeti V.Kulkarni, **T Demappa**, Venkata rao H. Kulkarni and Tejraj M Aminabhavi. Effect of terminal Sterilization with Radiation on Drug release Characteristic of Albumin Microspheres for intra auricular administration. Oral presentation in International Conference on Nano materials and Their Applications held at Vijnan Bhavan, Manasagangothri, University of Mysore , Mysore, on March 1-2, 2018.PO-29.

**115.** L R Shiva kumara and **T Demappa**. Miscibility Studies of ZnO Nano particles Incorporated CMC/ Sodium alginate Nano composite Films Oral presentation in International Conference on Nano materials and Their Applications held at Vijnan Bhavan, Manasagangothri, University of Mysore , Mysore, on March 1-2, 2018. PO17.

**11459.** **T Demappa**, and Sudhir Ramaswamy Iliger, Formulation and Characterization of Mucoadhesive Micro spheres of Metoclopramide Hydrochloride Drug in the Blends Of HPMC /PVA for Nasal Delivery presented in **National conference** on “**Biodiversity and Bio-prospecting for Sustainable Development -2018 (BBSD-2018)**”,23-24th Feb2018

**113** K Vijayashree; K S Rai and **T Demappa** A Study on Microbial Activity of Nano-sized CuO Synthesized by Microwave radiation Assimilation presented in “**Biodiversity and Bio-prospecting for Sustainable Development -2018 (BBSD-2018)**”, 23-24<sup>th</sup> Feb2018

**112** Shiva kumara L R; R.L.Jagadish and **T Demappa** Studies on Synthesis and Swelling Behavior of CMC Na Salt/ Acrylamide Hydrogels presented in “**Biodiversity and Bio-prospecting for Sustainable Development -2018 (BBSD-2018)**”,23-24<sup>th</sup> Feb2018

**111** 58.T Demappa. Actively participated in TEQIP- III Initiative One day **Workshop** on “Advanced Analytical Techniques for Polymer Characterization” on 29<sup>th</sup> January-2018 held at Sri Jayachamarajendra College of Engineering, Mysuru.

**11057.T Demappa** and T Niranjana Prabhu 26<sup>th</sup>**International Conference** on the Processing and Fabrication of the Advanced Materials (PFAM-26), which has held at the Chonbuk National University, Jeonju, Korea during October 16 - 21<sup>st</sup>,2017. **Invited speaker page No. 134**

**10956.** T Demappa participated in **National Conference** on Advances in Materials Research (NCAMR-2017) organized by Department of Chemistry, Faculty of Science and Humanities at Ramaiah University of Applied Sciences on 18-19 August 2017 as Delegate.

**10855.T.Demappa** .Global Initiative of Academic Networks (GIAN) Sri Jayachamarajendra College of Engineering Mysuru, jointly organised with Ministry of Human Resource Development Government of India, has organized a course on “ Graphene – based nano composites for Energy harvesting/storage Applications from 30<sup>th</sup> May 2016 to 10<sup>th</sup> June 2016.

**10754.** Mahadevaiah, LR Shiva kumara and **T Demappa** Mechanical and Barrier Properties of Hydroxy propyl methyl cellulose (HPMC) Edible polymer films with Plasticizers Combinations **International Conference** on Advanced Materials and Technology (ICMAT -16)26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP –II Initiative, Sri Jayachamarajendra College of Engineering Mysore  
**Invited Talk at ICMAT -16 ( INV 4) page 59**

**106** L. R. Shivakumara<sup>1</sup>,B.P. Dayananda<sup>2</sup> and **T Demappa**<sup>\*1</sup>,Miscibility Studies of Poly (vinyl pyrrolidone)/poly(vinyl alcohol) Blend in Water by Viscosity, Density, Refractive index and Ultrasonic Velocity Methods. International Conference on Advanced Materials and Technology (ICMAT -16) 26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP –II Initiative, Sri Jayachamarajendra College of Engineering Mysore **Poster presentation (Polymer science and Technology PPS 8) at ICMAT -16, page no. 261**

**105**Shiva kumara L.R, and **T Demappa**\* Synthesis and Swelling behavior of sodium alginate / poly (vinyl alcohol ) PVA hydro gels. International Conference on Advanced Materials and Technology (ICMAT -16)26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP –II Initiative , Sri Jayachamarajendra College of Engineering Mysore **Accepted for Oral presentation at ICMAT -16**

**104**Hadadi Yallappa<sup>1</sup>, J.Sannappa<sup>2</sup>,J.Srinivasa<sup>3</sup> and **T Demappa**<sup>\*4</sup>Miscibility Studies of Hydroxy propyl methyl cellulose/Poly( ethylene glycol )Blend in Water by Viscosity, Density, Refractive index and Ultrasonic Velocity Methods. International Conference on Advanced Materials and Technology

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(ICMAT -16) 26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP –II Initiative , Sri Jayachamarajendra College of Engineering Mysore **Oral presentation( Polymer Science and Technology OPS 38) page No.**

**103** Vijayashree.K, K. Sheshappa Rai, and **T Demappa** Investigation of Structural, mechanical and electrical properties of Novel CuO- HPMC nano composite films. International Conference on Advanced Materials and Technology (ICMAT -16) 26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP –II Initiative, Sri Jayachamarajendra College of Engineering Mysore **Poster Presentation (Polymer Science and Technology PPS9)Page No. 262**

**102** Vijayashree .K, Sheshappa Rai, and **T Demappa** Synthesis of nano sized Copper oxide by assimilating Microwave radiation and its characterizations. International Conference on Advanced Materials and Technology (ICMAT -16) 26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP–II Initiative, Sri Jayachamarajendra College of Engineering Mysore **Oral presentation (Polymer science and Technology OPS 4 ) page No.118**

**101** S R. Iliger<sup>1</sup>, **T Demappa**<sup>2</sup>, V H. Kulkarni, P V Kulkarn.<sup>1</sup> Formulation and Evaluation of Mucoadhesive Microspheres of Zolmitriptan for Nasal Administration. International Conference on Advanced Materials and Technology (ICMAT -16 26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP –II Initiative , Sri Jayachamarajendra College of Engineering Mysore. **Poster presentation(Polymer Science and Technology PPS 3) Page no. 258**

**100** Chaithanya S, Pooja BA; Latha H K; R.L.Jagadish; Kartik KT; Ravikiran BM, and **T Demappa** Compatibilization of Immiscible Polymer Blends Using Graphene Oxide. International Conference on Advanced Materials and Technology (ICMAT -16)26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP –II Initiative, Sri Jayachamarajendra College of Engineering Mysore. **Poster presentation (Polymer Science and Technology PPS21) page no 271**

**53 99T Demappa International Conference** on “Community Empowerment in Changing World: issues and Challenges” Jointly organized by University of Mysore, Karnataka State Planning Board, and Naresuan University, Thailand on 27<sup>th</sup> and 28<sup>th</sup> February 2015 at Senate Bhavan, Manasagangothri Campus, Mysore, India.

**5298 T Demappa** and LR Shiva kumara Miscibility Studies of HPMC/ Starch by Using Density, Viscosity and Refractive index Method. **Paper presented in Poster and Invited talk, pp 32, page (FACS-2015) NATIONAL CONFERENCE On FRONTIER AREAS IN CHEMICAL SCIENCE – 2015 on Jan10<sup>th</sup> 2015.** Organised by the **Department of studies in Chemistry (UG/PG) Bharathi College Bharathi Nagar Maddur Taluk, Mandya District.**

**T Demappa**, N.Nanjundaswamy and S. Kusumadevi Grafting of Acrylonitrile monomer onto cotton Cellulose fiber **Paper presented in poster presentation pp33, page 40**

**97 T Demappa** and LR Shiva kumara Water Soluble Polymer Blends: paper presented both in **poster and invited talk**

51.96 **T Demappa** Water-soluble hydroxy propyl methylcellulose (HPMC) Edible polymer films. Golden Jubilee Celebrations of Department of Studies in Chemistry Manasagangothri, University of Mysore, Mysore-570 006. UPE Project, University of Mysore Sponsored National Conference of Pure and Applied Chemistry (NACOPAC- 2014). On 29.12.2014- 31.12.2014, held at Dept of Chemistry, university of Mysore, Mysore-6 **Pp 64. page no. 86**

50.94**T Demappa** Edible polymer Blends Films for Food Packaging Applications UGC Sponsored Two- day National Conference on Recent Trends in Bioorganic Chemistry and its Application to Society Organised by Department of Chemistry and Biochemistry Sharada Vilas College, Krishnamurthypuram, Mysore-4 on 26-27 September -2014. **Poster Paper Presentation –pp 28, p70**

49.93 a) **T.Demappa** MECHANICAL AND BARRIER PROPERTIES OF HYDROXY PROPYL METHYL CELLULOSE (HPMC) EDIBLE POLYMER FILMS WITH PLASTICIZER COMBINATIONS FOR FOOD PACKAGING AND STORAGE APPLICATIONS 10<sup>th</sup> Kannada Vijnana Sammelana 15-17 ,September 2014 **Oral paper Presentation Seminar Central Subject :01, 04. Page No.12**

b)MECHANICAL, THERMAL AND FLAME RETARDANT PERFORMANCES OF HYDROXY-POLYPROPYLENE SHORT FIBERS –CLAY TERNARY COMPOSITE HYBRIDS APPLICATIONS 10<sup>th</sup> Kannada Vijnana Sammelana 15-17, September 2014 **Oral paper Presentation Semianr Central Subject : 08, Nagarjunium -08 Page No.226**

48. **92 T.Demappa.** St.Philomena's College Mysore-570 005 .Two day **National Conference** on Supramolecules and Nanomaterials 22 and 23 August -2014 UGC Sponsored Organised by Department of Chemistry and Biochemistry **MECHANICAL AND BARRIER PROPERTIES OF HYDROXY PROPYL METHYLCELLULOSE (HPMC) EDIBLE POLYMER FILMS WITH PLASTICIZER COMBINATIONS FOR FOOD PACKAGING AND STORAGE APPLICATIONS. Oral Presentation**

47. **91T. Demappa** Polycon 2014, 6<sup>th</sup>**National Conference** on Advances in Polymeric Materials 25<sup>th</sup> and 26<sup>th</sup> April 2014, organized by Department of Polymer Science and Technology. In Association with Indian Rubber Institute Karnataka Branch, Mysore.**Invited Lecture IL 11.**

**46. 90 T.Demappa** South Indian sugarcane and Sugar Technologists Association (SISSTA), Chennai, Sugar Industry Co-generation: A sustainable Source of Renewable Energy on 25<sup>th</sup>January, 2014. Sponsored by **SISSTA** and Mysore University

**45 89 T.Demappa** WATER – SOLUBLE, EDIBLE POLYMER BLEND FILMS AND THEIR CHARACTERIZATION UGC Sponsored Two Day **National Conference** on World's Emerging Advancements in Chemical Technology (WEACT) January 10-11- 2014 Organised by Department of Chemistry Govinda Dasa First Grade College Surathkal, DK, Karnataka. **Oral Paper Presentation RP 29**



44. **88 T.Demappa**. PLASTICIZED EDIBLE POLYMER FILS AND THEIR MECHANICAL, BARRIER, AND ELECTRICAL PROPERTIE ll India Seminar on “ NANO TECHNOLOGY FOR ENERGY, ENVIRONMENT AND HEALYH” Under The Aegis of Interdisciplinary Coordination Committee (ICC), IE (I) held on 19- 20 October 2013 at The Institute of Engineers (India), Mysore Local Centre, JLB Road , Mysore- 5. **Oral Paper Presentaion**

43. **87** Two Days Faculty Development Programme on “Polymer Composites” at Sri Jayachamarajaendra College of Engineering, Mysore on 30-31<sup>st</sup> August 2013 organized by the department of Polymer Science & Technology and Sponsored by Technical Education Quality Improvement Programme (TEQIP) Phase II. **Attended**

**42. T.Demappa, National seminar** on “Recent Trends in Polymer Science & Technology -2013. At Sri Krishnadevaraya University, Anapatapuram. Andrapradesh. **Invited talk**

41. **86**”**National Conference** on Recent Advances in Nano Science and Technology “ [NCRNT-13] 3<sup>rd</sup> and 4<sup>th</sup> May 2013. Organised by JMJ Education Society, Department of Physics and Biotechnology Acharya Institute of Technology.

**85**1. Water Soluble polymer Blends presented (**Oral**) by **T.Demappa, PHY004.T.Niranjana Prabhu; T.Demappa PHY003. Oral presentation**

**84** 2. Thermal, Mechanical and Flame Retardant Properties of Epoxy – HDPE Fabric – Particulate Hybrid Laminates.

**83** 3. Gamma radiation induced Effects on structural and thermal Properties of hydroxy propyl methyl cellulose (HPMC) polymer films paper presented( **Oral**) **N.Sandhya Rani, J.Sannappa, T Demappa** and Mahadevaiah PHY005

**82** 4. Ceric –Induced Grafting of Acrylonitrile onto Banana Cellulose Fibres, **Oral Presentation** by **Anusree K; and T.Demappa** PHY006

**81**5. Synthesis and Characterization of Polyacrylamide and poly acrylic acid co-polymer, **Oral Presentaion** by **Soumya .V and T.Demappa** PHY 007.

40. **80** UGC Sponsored **National Seminar** on Recent Advances in Chemical Biology – An overview (RACB -2013) Organized by Dept of Post Graduate Studies in Chemistry, Govt Science College , Hassan , held on 15<sup>th</sup> and 16<sup>th</sup> March 2013.

1. **78** Miscibility studies of poly (vinyl alcohol) PVA / poly (ethylene glycol) (PEG ) Blend in Water by Viscosity and Density Method **T.Demappa oral paper presented, OP – 04 page 26**

2. **77** Free radical polymerization of Acrylonitrile Initiated by Ce (IV) Sulphate / Glutamic acid Redox System: A kinetic Study **T.Demappa Poster paper presentation, pp- 13, page 44**

3. **76** Grafting of Acrylonitrile on to Banana Cellulose fibers **N.Nanjundaswamy<sup>2</sup>, K. Anusree<sup>1</sup>, D.R.Navya<sup>2</sup> and T.Demappa<sup>1\*</sup> Poster paper presented D.R.Navya, pp- 35, page 56**

**39.75** One day state level workshop on “ **Instrumental Techniques in Chemical Analysis**” organized by Dept of Chemistry ,Maharani’s Science College for Women, J.L.B Road Mysore, in Association with Karnataka Science and Technology Academy ,Bangalore on 26-02-2013. **Attended**

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38.74 **International Conference** on Recent Advances in Material Science and Technology-2013 (ICRAMST -13 ) 17<sup>th</sup> – 19<sup>th</sup> January ,2013.Organised by Department of Chemistry, National Institute of Technology. Karnataka, Surathkal, Srinivasnagar – 575 025, Mangalore, T.Demappa Biodegradable Polymer Packaging Films.**Oral presentation: OP -71, page No. 5**

37.73 The Institution of Excellence supported Two day International Lecture Series 29-11-2012 and 30-11-2012 on BIO \_PROSPECTING FOR SUSTAINABLE DEVELOPMENT **Attended**

36.72 One day conference on Social Justice –Role of Universities Organized by Dalit Employment Society Crawford hall, Mysore on 15.09.2012 at Rani Bahaddur, Manasagangothri, Mysore. **Attended**

35.71 The south Indian Sugarcane & Sugar Technologists Association, 42<sup>nd</sup> Annual Convention, Bangalore 24-08-2012 and 25-08-2012.**PP**

34.70 2<sup>nd</sup>**National Seminar** on “Applications of Nanotechnology in Health care on 30<sup>th</sup> June 2012Sponsored by Rajiv Gandhi University of Health Science, Bengaluru BLDE Association’s College of Pharmacy , Bijapur-Karnataka. **Oral presentation**

33.69 Plasticized Hydroxy propyl methyl Cellulose (HPMC) edible polymer blend films and their applications in Food Packaging Materials Invited talk in **National Seminar** on Advances in Polymeric Materials APM -2012 Department of Polymer Science and Technology Sri Krishna Devaraya University Anapatpur, Andrapradesh on 16<sup>th</sup> and 17<sup>th</sup> March 2012.**Invited Talk**

32.68 International Year of Chemistry - 2011 **International Conference on** Synthesis and structural Chemistry ICSSC -2011 December 8 – 10, 2011 Organized by Department of Studies in Chemistry Mangalore University Mangalagangothri – 574 199, Mangalore Karnataka , India ( DST – FIST and UGC - SAP Supported Department)

31.67Mahadeviah, Y.Prakash.**T.Demappa**. H.Somashekarappa and R Somashekar **Paper Title:** "Effect of micro wave radiation on HPMC polymer films and **HPMC-FeCl<sub>2</sub>** doped polymer blend films using wide angle X-ray technique"**International conference (ICSSC2011)** 08-10th December 2011 held at Dept. of studies in Chemistry, Mangalagangothri, Mangalore University, **Mangalore 574199. Abstract No.pp78, page104.**

30 66Mahadeviah, **T.Demappa** B Lakshmeesha Rao, S Asha, R Somashekar and Sangappa\* **Paper Title:** Effect of **ZnO** Nano particles on Structural and Mechanical Properties of **HPMC** Polymer Films **57<sup>th</sup> DAE Solid State Physics Symposium** December 03-2012, on held at Dept. of Indian Institute of Technology, MUMBAI, **Abstract No. MS-E-174, page40.(Accepted).**

65Mahadevaiah, N. Sandhya Rani, J Sannappa and **T Demappa.Paper Title:** Structural and ionic conductivity behavior in Hydroxypropyl Methylcellulose (HPMC) polymer complexed with Sodium Iodide (NAI).57<sup>th</sup> DAE Solid State Physics Symposium December 03-2012, on held at Dept. of Indian Institute of Technology, MUMBAI, **MS-E-126,page39. PP**



**64** Mahadeviah, Prakash, T. Demappa, Hemalatha, J, H. Somashekarappa and R. Somashekar Paper Title: **Microstructural and electrical properties of CdCl<sub>2</sub> doped HPMC/PVP polymer blend films.** 57<sup>th</sup> DAE Solid State Physics Symposium December 03-2012, on held at Dept. of Indian Institute of Technology, MUMBAI, MS-E-120, age35.pp

**63** 29. Mahadeviah and T. Demappa. Paper Title: Microstructural and electrical properties of ZnO nano particles doped HPMC polymer films. "Application of Nanotechnology in health care" 2<sup>nd</sup> National Level Seminar 30<sup>th</sup> June -2012, on held at Dept. of BLDE Associate's College of Pharmacy, Bijapura, Karnataka -INDIA ,pp page25.

6228. Commemoration of International Year of Chemistry 2011 UGC SPONSORED NATIONAL CONFERENCE RECENT TRENDS IN CHEMISTRY (RTC- 2011) 16<sup>th</sup> & 17<sup>th</sup> September - 2011

**61** Y. Prakash, H. Somashekarappa, Mahadeviah, T. Demappa\* and R. Somashekar Effect of Concentration of PVP Crystallinity of HPMC in HPMC/PVP Polymer Blend films. PP 24, page No. 50

**60** B.P. Dayananda; T.N. Kirankumar, N. Nanjunda swamy, Nagajyothi; Razia Sultana and T. Demappa\* Miscibility studies of Poly(vinyl pyrrolidone) / Hydroxy propyl methylcellulose blend in water by viscosity, density; refractive index and Ultrasonic velocity Methods. PP 36, Page No 62

**59** Gabany chirag; T. Demappa; M.S. Srinath and S.R. Illiger Solubility and dissolution enhancement of Etoricoxib by solid dispersion and Technique using HPMC and PVA PP 75, Page No. 105

**58** 1. Mahadeviah, Y. Prakash, T. Demappa, H. Somashekarappa and R. Somashekar Paper Title: "Effect of micro wave radiation on HPMC polymer films and HPMC/PVP polymer blend films using wide angle x-ray technique" National level conference 2011, 16<sup>th</sup> and 17<sup>th</sup> September 2011 held at Dept. of Chemistry, PES College of Science, Arts and Commerce Mandya-571401. Abstract No. pp12, page 79

5727. POLYCON -2011, 25-26 April 2011, 5<sup>th</sup> National Conference on Plastic and Rubber Technology NCPRT Organised by Department of Polymer Science & Technology, Sri Jayachamarajendra College of Engineering Mysore Invited Talk

**56** Applications and Miscibility Studies of Some Water-Soluble Polymer Blends by Low cost Physical Techniques Invited Talk No. 7 T. Demappa Page No. 33

**55** Thermal Expansion Behavior in Unsaturated Polyester Clay Composites T. Niranjana Prabhu, V. Harish, K.T. Varughese and T. Demappa TS1 - 2 page 59

**54** Miscibility Studies of Poly(vinyl alcohol) (PVA) / Poly(ethylene glycol) (PEG) Blend in water by Viscosity and Density Method T. Demappa and K.S. Sreeraj TS4- 1 pp 75

**53** Formulation and Characterization of Mucoadhesive Microspheres of Metoclopramide in the Blends of HPMC/PVA for Nasal Delivery S.R. Illiger and T. Demappa TS5 -3 page 86

**52** Miscibility studies of PVA and Starch Blends in Water by Viscosity and Density Methods Y. Prakash, T. Demappa, H. Somashekarappa and R. Somashekar Pos - 08, PP 1

51 Polymerization of Acrylonitrile Initiated by Cerium (IV) –Citric Acid Redox System: A Kinetic Study **J.Mary Leiza**, Mallamma and **T.Demappa** Pos- 09, PP 150

50 Application of Synthesized Polyacrylamide for sugarcane juice Clarification Masih Ansari Dezfuly, Mahadevaiah and **T.Demappa** Pos-13, Page No.154

Miscibility Studies of Poly(vinyl pyrrolidone) with Starch in Water by Viscosity and Density Methods Razia Sulthana, Nagajyothi M.S; B.P.Dayananda,.N. Kirankumar, B.C.Channu, N.Nanjundaswamy, A.Ramesha Baba and **T.Demappa** Pos – 15, PP 156

Synthesis and Characterization of Polyacrylonitrile Spoorthy, H.P.; Mallamma and **T.Demappa** Pos- 19; Page No.159

4926. **International Symposium** on Challenges in Drug Discovery Programme – 2011 (ISCDDP -2011) February 16 -17, 2011. Karnataka State Open University, Manasagangothri, Mysore-570 006

48 Formulation and Characterization of Mucoadhesive Microspheres of Verapamil Hydrochloride Drug in Chitosan for Nasal Delivery S.R.Iliger and **T.Demappa** POSTER 026 Page NO. 58

4725. Two days work shop on Karnataka Science and Technology Academy Third conference 15-16, February 2011 Attended

4624. Thermal Degradation Properties of Clay Particles Reinforced Unsaturated Polyester Composites Chemical biological and materials Science P 25

Sixth Kannada Vignana Sammelana Organised by .....and Veterinary Science held on 15 -17 September 2010

4523. Two Day **National Symposium** on Frontier Areas in chemical Science and Nanotechnology (NSFACNT -2010) May 1 and 2, 2010. Miscibility studies of HPMC and Starch Blends in water by viscosity and density method K.S.Mahalakshmi, B.P. Dayananada, T.N.Kirankumar, B,Manjunath and **T.Demappa** ICPP-07

44. Miscibility studies of PVA and Starch Blends in water by viscosity and density method R. Madhu, B.P. Dayananada, T.N.Kirankumar, A. Ramesh Baba and **T.Demappa** ICPP-08

43. Free Radical Polymerization of Acrylonitrile initiated by Ce (IV) Sulfate / Glutamic acid Redox System : A kinetic Study **T.Demappa** and N. Nanjunda swamy PCPP- 04

42. Hydrophilic HPMC Edible Films and Their Characterization **T.Demappa** and Mahadevaiah **PCPP- 06 Two Day National Symposium on Frontier Areas in chemical Science and Nanotechnology (NSFACNT -2010) May 1 and 2, 2010 .**

4122. A UGC –SAP Sponsored Two day **National Conference** on RECENT TRENDS IN CHEMICAL AND BIOLOGICAL SCIENCES” (NCRTCBS – 2010) 30<sup>th</sup> – 31<sup>st</sup> March 2010 Organized by School of Chemical Sciences , Department of Chemistry, Kuvempu University, Jnana Sahyadri , Shankaraghatta – 577 451, Shimoga Dist; Karnataka.

40. Thermo gravimetric Characterization of Unsaturated Polyester Nano clay composites. **T.Niranjana Prabhu**, V.Harish, K.T.Varughese and **T.Demappa** Oral presentation OP- 4

39. Redox Polymerization of Acrylonitrile Initiated by Ce (IV) – Formic acid in aqueous Sulphuric acid Medium: A kinetic study. **T.Demappa** poster presentation pp 11

Formulation and Characterization of Mucoadhesive Microspheres of Promethazine using blends of HPMC and PVA for Nasal Delivery **Sudhir R.Illiger and Demappa.T** Poster presentation, pp -62.

3821. **International Conference** on Recent Advances in Industrial Electrochemical Science and Technology (ICRAIEST – 2009) held in the Department of Chemistry, Mangalore University Mangalagangothri during 5-7 November 2009.Paper presented Poster

3720. UGC Sponsored Two Day State Level Seminar on “Emerging Trends in Liquid Crystals & Coordination Compounds” held on 21 and 22 August 2009 at St.Philomena’s College, Mysore. **Attended**

36 19.Machanical and Barrier Properties of HPMC Edible Films with Plasticizer Combinations. Universities, Government Organization and Industries Sponsored Two Day **National Conference** on THE EMERGING AREAS IN CHEMISTRY NACEAC - 2009 To be held on 31-07-2009 & 01-08-2009 at Department of Studies in Chemistry, Manasagango thri, Mysore- 570 006 PP 3, page No.39

35.Miscibility Studies of PEG and Starch Blends By Viscosity and Density Method Universities, Government Organization and Industries Sponsored two Day **National Conference** on THE EMERGING AREAS IN CHEMISTRY NACEAC - 2009 To be held on 31-07-2009 & 01-08-2009 at Department of Studies in Chemistry, Manasagangothri, Mysore- 570 006 PP 4, page No.39

34. Formulation and Characterization of Mucoadhesive Microspheres of HPMC and PVA for nasal Delivery Universities, Government Organization and Industries Sponsored Two Day **National Conference** on THE EMERGING AREAS IN CHEMISTRY NACEAC - 2009 To be held on 31-07-2009 & 01-08-2009 at Department of Studies in Chemistry, Manasagangothri, Mysore- 570 006PP 5, page No.40

33. Thermal Degradation Kinetics of Epoxy Resin Reinforced With HDPE Fibers Universities, Government Organization and Industries Sponsored Two Day **National Conference** on **THE EMERGING AREAS IN CHEMISTRY NACEAC - 2009** To be held on 31-07-2009 & 01-08-2009 at Department of Studies in Chemistry, Manasagangothri, Mysore- 570 006. **PP 6, page No.41**

32. Polymerization of Acrylonitrile initiated by Ce (IV) – Fructose Redox System: A Kinetic Study Universities, Government Organization and Industries Sponsored Two Day **National Conference** on THE EMERGING AREAS IN CHEMISTRY NACEAC - 2009,To be held on 31-07-2009 & 01-08-2009 at Department of Studies in Chemistry, Manasagangothri, Mysore- 570 006. PP 7, page No.41

31. Os (VIII) Catalyzed Oxidation and Kinetics of Alifatic Primary Amines By N- Sodio- N- Bromo – p- Toluene sulfonamide (Bromamine –T) in Alkaline Medium Universities, Government Organization and Industries Sponsored **Two Day National Conference** on THE EMERGING AREAS IN CHEMISTRY NACEAC - 2009, To be held on 31-07-2009 & 01-08-2009 at Department of Studies in Chemistry, Manasagangothri, Mysore- 570 006. PP 38, page No.60

30. Inhibition of Corrosion Using Benzofuran in Aqueous Medium of 1.0 M H<sub>2</sub>SO<sub>4</sub> Universities, Government Organization and Industries Sponsored **Two Day National Conference** on THE EMERGING AREAS IN CHEMISTRY NACEAC - 2009. To be held on 31-07-2009 & 01-08-2009 at Department of Studies in Chemistry, Manasagangothri, Mysore- 570 006 **PP 46, page No.65**

2918. Two Days **National Conference** on Chemistry and Molecular Nanotechnology for Industry and Society (NCMNIS-2009), 16-17<sup>th</sup> January, 2009. PP (PC) = 04, Page No.73

28. “Kinetics and Mechanism of Oxidation of Methionine by N- Sodio–N-Bromo–p-Toluene Sulphonamide in Alkaline Medium in presence of OsO<sub>4</sub> Catalyzt.” **TWO DAYS NATIONAL CONFERENCE ON CHEMISTRY AND MOLECULAR NANOTECHNOLOGY** for Industry and Society (NCMNIS-2009), 16-17<sup>th</sup> January, 2009. PP (PC) = 06, Page No.74

27. “Os (VIII) catalyzed Oxidation and Kinetics of Alifatic Primary Amines by N-Sodio-N-Bromo–p-Toluene Sulphonamide (Bromamine–T) in Alkaline Medium **TWO DAYS NATIONAL CONFERENCE ON CHEMISTRY AND MOLECULAR NANOTECHNOLOGY** for Industry and Society (NCMNIS-2009), 16-17<sup>th</sup> January, 2009. PP (PC) = 10, Page No.77

**2617. National Conference** on Futuristic Polymer Materials 26&27 September, 2008. FPM 2008 Organized by Department of Chemistry, R.V. College of Engineering R.V.Vidyaniketan Post, Mysore Road, Bangalore-560 059& Department of Science & Technology New Delhi 1103033 .Miscibility Studies of Poly (vinyl alcohol) (PVA) / Poly (ethylene glycol) (PEG) blend in water by Viscosity and Density Method. Oral presentation

2516. Miscibility studies of HPMC/ PEG Blends in Water by Viscosity, Density, Refractive index and Ultrasonic Velocity Method. IL 67 **Invited Lecture Second International Conference** on Polymer Blends, Composites, IPNs, Membranes, Polyelectrolyte and Gels: Macro to Nano Scales. ICBC-2008, on Sept.22,23 and 24, 2008 Held at School of Chemical Sciences, Mahatma Gandhi University, Priyadarshini Hills P.O. Kottayam, Kerala-686 560 ,INDIA

24. Formulation and Characterization of Mucoadhesive Micro spheres of Promethazine Hydrochloride for Nasal Delivery **Second International Conference** on Polymer Blends, Composites, IPNs, Membranes, Polyelectrolyte and Gels: Macro to Nano Scales. ICBC-2008, on Sept.22,23 and 24, 2008, Held at School of Chemical Sciences, Mahatma Gandhi University, Priyadarshini Hills P.O. Kottayam, Kerala-686 560, INDIA CL 2

23 15. Vinyl Polymerization of Acrylonitrile Initiated by the Ce(IV) – Isobutyric acid redox system : A kinetic study NCEPRS –MACRO –08 **Fourth National Conference on Polymers** (National Conference on Eco Friendly Plastics and Rubber Systems) on 19<sup>th</sup> - 20<sup>th</sup> May 2008, SJCE, Mysore T2-2 pp 42

22. The study of Free Radical Polymerization of Acrylonitrile by Oxidation – Reduction system using Cerium (IV) – Succinic acid in Aqueous medium T2-3 pp 43  
NCEPRS –MACRO –08 **Fourth National Conferences on Polymers** (National Conference on Eco Friendly Plastics and Rubber Systems) on 19<sup>th</sup> - 20<sup>th</sup> May 2008, SJCE, Mysore
21. Preparation and characterization of Edible Polymer films using different Plasticizers T2-4 pp 44  
NCEPRS –MACRO –08 **Fourth National Conference on Polymers** (National Conference on Eco Friendly Plastics and Rubber Systems) on 19<sup>th</sup> -20<sup>th</sup> May 2008, SJCE , Mysore
20. Miscibility studies of HPMC/ PVA Blends in Water by Viscosity, Density, Refractive index and Ultrasonic Velocity Method.T6-4, pp 82 NCEPRS –MACRO –08**Fourth National Conference on Polymers** (National Conference on Eco Friendly Plastics and Rubber Systems) on 19<sup>th</sup>- 20<sup>th</sup> May 2008, SJCE, Mysore
- 1914.X-ray diffraction line profile analysis for microstructural parameters of HPMC pure and 8 MeV EB irradiated films**52<sup>nd</sup> Department of Atomic Energy Solid State Physics Symposium** held on (27-31 December 2007), University of Mysore, Manasagangothri, Mysore
1813. TISSUE –POLYMER COMPATIBILITY STUDIES OF AGAR-GELATIN BASED SUBDERMAL IMPLANTS OF DICLOFENAC SODIUM”**59<sup>th</sup> Indian Pharmaceutical Congress. VARANASI – (UP) 20<sup>th</sup> to23<sup>rd</sup> Dec-2007.**
1712. Studies of Sub dermal tissue necrosis of Meloxicam Agar- Gelatin Implants”**12<sup>th</sup> APTI Convention , Chandigarh,,25-27 ,October –2007.**
1611. Redox polymerization of Acrylonitrile initiated by potassium persulfate- Thiourea Redox system: Akinetic study. Poster presentation, paper No. PP-56 **National conference** on Emerging area in chemical and Biological Sciences( NCEACB-2007) held on March 23 –24,2007, at Kuvempu university, Jnanasahyadri, Shankaragatta, 577451, Shimoga dist Karnataka, India.
- 15.Redox polymerization of Acrylonitrile initiated by potassium per sulfate - Ascorbic acid Redox system: A kinetic study. Presentation, paper No.PP-55**National conference** on Emerging area in chemical and Biological Sciences (NCEACB-2007) held on March 23 –24, 2007, at Kuvempu University, Jnana sahyadri, Shankaragatta, 577451, Shimoga Dist., **Karnataka, India.**
- 14.Vinyl polymerization of Acrylonitrile by the Ce(IV) – Isobutyric acid Redox system: A kinetic study Poster presentation, paper No. PP-9 **National conference** on Emerging area in chemical and Biological Sciences (NCEACB-2007) held on March 23 –24, 2007,at Kuvempu **University, Jnana sahyadri, Shankaragatta, 577451, Shimoga dist Karnataka, India.**
13. Kinetic Study of free radical Polymerization of Acrylonitrile Initiated by Cerium (IV) – Formic acid Redox System**National conference** on Emerging area in chemical and Biological Sciences ( NCEACB-2007) held on March 23 –24,2007,at Kuvempu university, Jnana sahyadri, Shankaragatta, 577451, Shimoga dist Karnataka, India.
1210. Kinetics and mechanistic study of Polymerization of Acrylonitrile by Ce(IV) –Sucrose redox system: A kinetic study initiated **National conference** held at Mangalore University, Mangalore on May 2006 PP 82



119. Kinetic Studies on Free Radical Polymerization of Methyl methacrylate Initiated by Cerium (IV) –Lactic Acid in Aqueous System **National Seminar** Organized by Industrial Chemistry and General Chemistry, Kuvempu University, to be held on Jan 6 - Jan 8, 2006  
PP-10

108. Polymerization of Acrylonitrile Initiated by Ce (IV) – Oxalic acid Redox System: A kinetic study, SJCE, Mysore TI – 01, Page 7

97. Recent Advances in Water Treatment by Ion-Exchange Resin Techniques, Paper Presented Oral International Conference on water and Health Management held at SJCE, College, Mysore on Jan 22-23 –2005, S<sub>4</sub> - PP08, P 204

86. One day Seminar on “FRONTIER AREAS IN CHEMISTRY” on March 7<sup>th</sup> 2002, Department of Industrial Chemistry and Chemistry, Jnana Sahyadri Shankaraghatta, Shimoga, Karnataka, **Attended**

75. Effect of Plasticizers on Cellulose Acetate Plastics Extrusion with respect to Thermal Characteristics and Colour. **Indian Council of Chemists Twentieth Conference** 2001 at Manasagangothri, University of Mysore OP- 102, P-144

6. Kinetics and Mechanism of Oxidation of Sodium-N- Bromo-p- Toluene Sulfonamide in alkaline medium in presence of OsO<sub>4</sub> Catalyst **Indian Council of Chemists Twentieth Conference** 2001 at Manasagangothri, University of Mysore. PP-67: P-220

5 Polymerization of Acrylonitrile initiated by the Ce (IV) –Tartaric acid Redox System: A kinetic study **Indian Council of Chemists Twentieth Conference** 2001 at Manasagangothri, University of Mysore AO-40: P-248

44. **National Symposium on Sciences Advancing Frontiers** held June 03-04-2001 at CDRL, Lucnow  
**Abstract: PHY (OP) –59, P-40**

33. 37<sup>th</sup> **Annual Convention of Chemists 2000, Indian Chemical Society** held at Hardwar Abstract: no PHY (OP)-52.

# RESUME

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**22. 28<sup>th</sup> Annual Convention of Chemists 1996, held at Aurangabad, Andhra Pradesh** Oxidation and Kinetic Study of Some Primary Amines by Sodium-N-Bromobenzene sulfonamide in Alkaline Medium **ABSTRACT : PO 8, PAGE No. 81**

**11.32<sup>nd</sup> Annual Convention of Chemists 1995 held at Jaipur.** University of Rajasthan, India  
Abstract: Phy (O): 20 Oxidation of Primary amines by N-Sodio -N-Bromo benzene Sulfonamide (Bromamie-B) in Alkaline Medium Catalyzed by Os(VIII) : A Kinetic Study

## PROFESIONAL AFFILIATIONS

**Life Member:** Indian Council of Chemists (ICC)

**Life Member:** Mysore University Teachers Association (MUTA)

**Life Member:** Mysore University Post-graduate Teachers Association (MUPGTA)

**Member of** the Asian Journal of Chemistry 1998-2002

**Member of BOS** in Polymer Science 2009, University of Mysore

**Member of BOE** in Polymer Science, University of Mysore, 2007

**Life member** of the Journal of Indian Council of Chemists 2006

Life Fellow Number is LF/ 1061

**Member** of the Asian Journal of Chemistry 1993- 2002.

**Member of** Constitution of Selection Committee for engagement of Project Assistant / Research Fellow under externally, funded projects: q~l:jllJFIICPT ~ /Title of the Project : Design and development of a sustainable process to utilize the agricultural wastes for the production of biodegradable disposable materials and food packaging films q~l:jllJ1""11 ~ /Project No. GAP 586 Lft~ CPT ""1T11/f&'l{11T /Name of the PI/Department : D. Jeevan Prasad Reddy / Food Packaging. Council Of Scientific And Industrial Research–Central Food Technological Research Institute (CSIR–CFTRI),Mysore.

## EDITORIAL BOARDS

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**Chairman BOS, Department of Studies in Polymer Science, University of Mysore, 2019 Member BOS**

- 1. Department of Polymer Science, University of Mysore.**
- 2. Department of pharmaceutical chemistry, Kuvempu University**
- 3.Member of BOS in Polymer science 2001 – 2002**
- 4.Member of BOS in Chemistry, Davanagere University. Davanagere.**
- 5.Member of BOS in sugar Technology, University of Mysore, Sir M.V. PG Centre, Tubinakere, Mandya.**
- 6. Member of BOS in Pharmaceutical chemistry, PG Centre Kadurur, Kuvempu University**
- 7. Member of BOS in Organic Chemistry , Tumkur University ,Tumkuru.**
- 8.Member of BOS in Chemistry, Tumkur University ,Tumukuru**
- 9. Member of BOS in Medicinal chemistry,Kuvempu University**
- 10.Member of BOS in Chemistry, Mangalore University ,Mangalore.**

### **BOE**

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**Member BOE**

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- 5.Department of Polymer Science and Technology SJCE, Mysore**
- 6.Department of Polymer Science and Technology, JSS Science and Technological University, Mysore**
- 7.Department of Industrial Chemistry, Kuvempu University, Shankara ghatta**
- 8.Dpartment of Chemistry , Sahyadri Science college (Constituent of Kuvempu University) .**
- 9.Department of Chemistry, Yuvaraja's College (Constituent of Mysore University)**
- 10.Department of Chemistry, Karnatak University, Dharawad**
- 11.Deaprtment of Chemistry, Krishnadevaraya University, Bellary.**
- 12.Department of Chemistry, Bangalore University**
- 13. Department of Chemistry, Bangalore Central ,University**

14. Department of Pharmaceutical chemistry, Kuvempu university, Kadur.
15. Member of BOE polymer science ,University of Mysore,2007
16. Member of BOE Dept of studies in Sugar Technology, University of Mysore
17. Member of BOE Visvesvaraya Technological University, Belagaum.
18. Member of BOE ,Department of Chemistry Ranichannamma University.
19. Member of BOE , Department of Medicinal Chemistry, Kuvempu University, Karnataka.
20. Member of BOE , Department of Physics , Acharya Institute of Engineering , Bangalore ,  
affiliated Visvesvaraya Technological University, Belagam. Karnataka.
21. Member of BOE Department of Polymer Science and Technology , Sri Krishnadevaraya  
University, Anaparthi, Andhra Pradesh.
22. Member of BOE Department of Chemistry, Cluster University , Mandya
23. Member of BOE Department of Organic Chemistry, Tumakur University
24. Member of BOS, Department of Organic Chemistry, Tumakur University
25. BOS Chairman, Department of M.Sc Polymer Science, Central Institute of Plastics and  
Engineering technology / Central Institute of Petrochemicals and Engineering Technology  
(CIPET), Mysore.

## Member of Ph.D Colloquium Programme

1. Conducting Ph.D. Pre-registration Colloquium for the candidate B Raviprasad on 11<sup>th</sup> August 2011 at the Department of Sugar Technology, SirM.V Post Graduate Centre ,Tubinakere, Mandya at 11.00 am
2. Conducting Ph.D. Pre-Thesis submission colloquium for the candidate Miss R. Mythely on 05.01.2013, in the Department of Sugar Technology, SirM.V.PG Center, Mandya.
3. Conducting Ph.D open viva-voce for the candidate Mrs. R. Mythily, Department of Sugar Technology on 19<sup>th</sup> July 2013 in auditorium hall, SirM V.PG center, Mandya at 10.30 am.

## RESUME

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4. conduct Internal open viva-voce examination for the candidate Mrs Ashraf Berami, Department of Sugar Technology on 20<sup>th</sup> August 2014 in Commerce Hall, SirM V.PG center, Mandya at 10.30 am.

5. Conducting Pre thesis submission colloquium for Sri Venkatesh R, Department of Sugar Technology On 15.09.2014, Sir M V. PgG Center, Mandya at 10.30 am.

6. Conducting Pre Thesis submission colloquium for the candidate Mr. Masih Ansari Dezfully, Department of Sugar Technology, university of Mysore, on 23<sup>rd</sup> September 2013 at 11.00am.

7. Conducting Pre- Thesis submission Colloquium for the candiadate Smt. Girija Nagendraswamy on 06.03.2013, in the Department of Sugar Technology, Sir M.V. PG Center, Mandya.

8. Conducting Ph.D Internal viva-voce examination to Mrs. Girija Nagendraswamy on 17.10.2013 at 10.30 am in the Department of Sugar Technology at SirM.V.PG Center, Mandya.

9. Conducting pre registration colloquium for the candiadte Sri C. Rajesh Research scholar , Department of Polymer Science ,University of Mysore, on 3<sup>rd</sup> November 2012 at 10.30 am.

10. Conducting pre registration colloquium for the candiadte Miss Sunitha, Research scholar , Department of Polymer Science ,University of Mysore, on 3<sup>rd</sup> November 2012 at 12.30 pm.

11. Conducting pre Thesis submission colloquium for Smt. C Thejovathi on 14.01.2015 in the Department of Sugar Technology, SirM.V.PG Center ,Mandya at 11.00am.

12. Conducting Ph.D colloquium meeting to Mr. Raviprasad B at 11.00 am in the Department of Sugar Technology at SirMVPG Centre, Mandya.

13. Conducting Pre-Thesis submission Colloquium for the candidate Sri P Bhuvan under the guidance of Dr.S.Chanraju, on 09<sup>th</sup> August 2017 at the Department of Sugar Technology, SirM V.PG Center, Tubunakere, Mandya at 3.00 pm.

14. Conducting Internal viva-voce Examination for the candidate Mrs. C. Thejovathi on 30.06 2015 in Commerce Hall, Sir M V .PG Center, Tubinakere, Mandya at 2.30 pm.

15. Conducting an Internal open viva-voce examination to Mr. Bhuvan P Under the guidance of Dr. Chandraju, Professor (RTD), Department of Sugar Technology, University of Mysore, on 27<sup>th</sup> March 2018, at 11.00 am.

16. Conducting as an external examiner for the comprehensive viva-voce examination of research scholar Mohammed Irfan, under the guidance of Dr. A Manjunath, on 30.11.2018 in the Department of Physics, Davanagere University, at Government Science College, Chitradurga,

17. Conducted as an external Examiner of Ph.D viva-voce examination of Mr. Deepak Ramesh Kasai Under the guidance of Dr. Ravindra Chougale on 26.02.2019 in the department of Material Science, Mangalore University, Mangalore, at 11.00 am.

18. Conducted Ph.D viva-voce examination as an external examiner of Mr. Laksmeesha Rao B Under the guidance of Dr. Sangappa, in the Department of Physics, Mangalore University, Mangalore. On 07.03.2017 at 11.00 am.

19. Conducted the Pre-Ph.D; registration Colloquium of Mr. Somesh TE; Leading to Ph.D; degree under University of Mysore, Mysore on 10.04.2019 at 4 pm, at seminar Hall, S.J. College of Engineering, Mysore.

20. Conducted the Ph.D Comprehensive viva-voce examination of Mr. Mallikarjuna.KS. on 18<sup>th</sup> January 2019 between 11.00 am to 1.00 pm, at physics Research Center, Acharaya Institute of Technology, Bengaluru, affiliated to Visvesvaraya Technology University, Belgaum.

21. Conducted the Ph.D Comprehensive Internal viva-voce examination of Mr. Adel Morshed Nagi Saeed 21.02.2020 at 4.00 pm, at Department of Polymer Science, JSS Research Foundation, SJCE, Campus, Manasagangothri, Mysore-6.

22. Conducting Ph.D Comprehensive Report “ Studies on the synthesis and Characterization of Polymer-metal Complexes of Poly(vinylpyrrolidone) with Some Transitional Metals” submitted to the Visvesvaraya Technological University, Belgaum, for the Award of the Degree of Doctor of Philosophy in Chemistry, by Ms. Anasuya KV ( Reg.No. ISS07PGN01) Under the Supervision of

# RESUME

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23. Dr. M. K. Veeraiah, Professor and HOD of Chemistry, Sri Siddhartha Institute of Technology, Malur, Tumkur. July 2012.

24. Proceedings of Doctoral committee meeting for Ph.D. thesis pre-submission colloquium of Mr. A. Anda, V. Nasalapure held on Friday, the 17<sup>th</sup> April 2021 at 3.00pm, in the chamber of the Chairperson, Department of Industrial Chemistry, Mangalore University, Mangalore-574199 online mode.

26. Evaluation of Ms. Jaya Pai of Ph.D. thesis entitled "Preparation and Characterization of hybrid biodegradable polymer Scaffold for Skin tissue engineering, Department of Industrial Chemistry, Mangalagangothri, Mangalore University, Mangalore-574199.

27. Ms. Jaya Pai Final Viva-voce of Ph.D. thesis entitled "Preparation and Characterization of hybrid biodegradable polymer Scaffold for Skin tissue engineering, Department of Industrial Chemistry, Mangalagangothri, Mangalore University, Mangalore-574199.

28. Ph.D. Thesis Evaluation of Mrs. S. Bharathi, entitled "A study of Binary Liquid Mixtures", under the guidance of Prof. C.S. Shubha, Department of Chemistry, Anthapuram University, Andhra Pradesh.

29. Ph.D. Thesis evaluation of Mrs. Pushpa Rekha, entitled "Studies on Fabrication, Characterization and Optical Properties of doped Chitosan and Pullulan Composites", Under the Guidance of Prof. B. K. Sarojini, Department of Industrial Chemistry, Mangalagangothri, Mangalore University, Mangalore.

30. Mrs. Pushpa Rekha's Final Viva-voce of Ph.D. thesis entitled "Studies on Fabrication, Characterization and Optical Properties of doped Chitosan and Pullulan Composites" Under the guidance of Prof. B. K. Sarojini, Department of Industrial Chemistry, Mangalagangothri, Mangalore University, Mangalore-574199.

**31. Mr. T. Madhusudhana's** Final Viva-voce of Ph.D. thesis entitled "**SYNTHESIS AND CHARACTERIZATION OF SMART HYDROGELS IN DRUG DELIVERY SYSTEM**" on April 13<sup>th</sup> 2023 under the guidance of Prof. G. P. Mamatha, Department of Chemistry, Hemangangothri, Davanagere University, Davanagere.

## **M.Sc Project work evaluation Programme**

M.Sc IV Semester Pharmaceutical Chemistry Project viva-voce examination 2019 at PG Center, Kadur, Kuvempu University.

## Ph.D THESIS ADJUDICATED

1. Mangalore University, Mangalagangothri, Mangalore, Physics
2. Mangalore University, Mangalagangothri, Mangalore, Chemistry
3. Mangalore University, Mangalagangothri, Mangalore, Material Science
4. Kuvempu University, Shankaraghatta, Chemistry
5. Visvesvaraya Technological University, Belagavi, Physics.
6. Sri Krishna Devaraya University, Ananthapur, Andhra Pradesh
7. Yogi Vemana University, Kadapa, Andhra Pradesh, Material Science and NanoTechnology
8. Tirupathi University, Thirupathi, Andhra Pradesh, Chemistry.
10. Kuvempu University, Shankaraghatta
11. JSS Science and Technological University, Mysore
12. Tumakuru University, Tumakuru
13. ACHARYA Institute of Technology, Dept of Physics, (Affiliated to Visvesvaraya Technological University, Belagavi, Approved by AICTE, New Delhi and Accredited by NBA and NAAC)
  
14. Development of Different Polymer Systems for Drug Delivery and Separation Applications, This thesis submitted to Yogi Vemana University for the Doctor of Philosophy in Material Science and Nanotechnology, Yogi Vemana University, Kadapa- Andhra Pradesh, INDIA on May 2016 by S. Shivasankar, M.Sc; Under the Guidance of Dr. B. Vijaya Kumar Naidu
  
15. Thermal, Mechanical and Spectroscopic Investigations on Polysaccharide Based Polymer Blends/Films, a Thesis submitted to Degree of Doctor of Philosophy in Material Science by Deepak R. Kasai, under the Guidance of Dr. Ravindra B. Chougale, Associate Professor, Department of Materials Science, Mangalore University, Mangaluru, INDIA, On March 2018.
  
16. Biopolymer Based Polymeric Matrices for Controlled Drug Delivery Applications, Thesis submitted to Sri Krishnadevaraya University, Ananthapuramu for the award of the Degree of Doctor of Philosophy in Polymer Science and Technology by Mr. Palla Kumara Babu, M.Sc; under the Guidance of Prof. K. Chowdji Rao, Dept of Polymer Science and Technology, Sri Krishnadevaraya University, Ananthapuramu, AP, India on February -2018.
  
17. Synthesis and Characterization of Acrylic Emulsions: Their Evaluation as Pressure Sensitive Adhesives and Vinyl Acetate Emulsions for Wood Adhesives, Thesis submitted to Sri Krishna Devaraya University, Ananthapuramu, AP, India for the award of the Degree of Philosophy in Polymer Science and Technology under the Supervision of Prof. T. Subba Rao, Krishna Devaraya University, Ananthapuramu, AP, India on January 2018.

**18.Design and Synthesis of Biologically Active Novel Heterocyclic Compounds as Promising Antibacterial Agents.**Thesis submitted by **S. Raghaveer**, Under the supervision of **Dr.Nagaraj**, Department of Chemistry,Telangana University, Nizamabad-503322, India on July 2021.

**19.Synthesis and Characterization of Artificial Skin**

Thesis evaluated and reported from Managalore University,Mangalore, Prof. **B K Sarojini** Professor and chairperson, Department of Industrial Chemistry, on April 17<sup>th</sup> 2020.

**20 Proceedings of the Meeting of Doctoral Committee on Ph. D.Thesis-Pre-Submission Colloquium** Name of the Candidate:**Mrs. MEGHANA NAVADA, K.**

**Title of the Thesis: STUDIES ON POLYMER-HALLYSITE NANOTUBE FILM COMPOSITES AND THEIR BIOMEDICAL APPLICATIONS**

**Place of Meeting: Department of Chemistry, Mangalore University**

**Date & Time: 01-10-2021, 11.15 am onwards**

**21.Thesis evaluation and reporting entitled “ Studies on Optical and Pharmaceutical Applications of Doped Biopolymer Poly (Lactic acid ) (PLA). Submitted by JAYA PAI A, Department of Industrial Chemistry, Mangalore University, Mangalore, April 2021.**

## **M. Tech DISSERTATIONS ADJUDICATED**

15.Mr.Divesh MD (USN : 01JST21PMS004) M.Tech Project Dissertation entitled “ **Assessment of Weathering Property of Plastics**” evaluated and awarded the Master of Technology in Polymer Science and Technology *Under the guidance of Dr. Roopa S , Dept. of PST, SJCE, JSSSTU, Mysuru***DEPARTMENT OF POLYMER SCIENCE AND TECHNOLOGY, SJCE, JSSSTU, Mysuru - 570006 Sept 2022**

14.Ms BV Kruthika,(USN 01JST20PPS001) M.Tech Project Dissertation entitled “ **Study on Preparation and Characterization of Biopolymeric Films** ” evaluated and awarded the Master of Technology in Polymer Science and Technology *Under the guidance of Dr. Kameshwaridevi SH , Dept. of PST, SJCE, JSSSTU, Mysuru***DEPARTMENT OF POLYMER SCIENCE AND TECHNOLOGY, SJCE, JSSSTU, Mysuru - 570006 Sept 2022**

13.Rahul Devang (USN 01JST 20PM004) , M.Tech Project Dissertation entitled “ **Development of Instrument Panel Upper for Automobile Original Equipment Manufacturer using APQP methodology for New Product development**” evaluated and awarded the Master of Technology in



# RESUME

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Polymer Science and Technology *Under the guidance of* **Dr. GS Anantha padmanabha, Professor and Head, Dr. MP Chandresh, Mr. Mohan DK, and Mentor, Mr B Thejkumar**

**AVP-Operations Toyoda Gosei South India Pvt LTD, Bidadi** *Dept. of PST, SJCE, JSSSTU, Mysuru*  
DEPARTMENT OF POLYMER SCIENCE AND TECHNOLOGY, SJCE, JSSSTU, Mysuru - 570006  
SEPT 2022

12.Vedhika B R (USN :01JST19PPS006) , M.Tech Project Dissertation entitled “**Development of Cost effective Thermoplastic Starch formulation**” evaluated and awarded the Master of Technology in Polymer Science and Technology *Under the guidance of* **Dr A B. Hemavathi, ent** *Dept. of PST, SJCE, JSSSTU, Mysuru***DEPARTMENT OF POLYMER SCIENCE AND TECHNOLOGY, SJCE, JSSSTU, Mysuru - 570006 JULY 2021**

11.Chanakesava Rreddy (USN : 01JST19PMS004) , M.Tech Project Dissertation entitled “**Characterization and performance enhancement of lithium-ion battery ceramic coated separators**” evaluated and awarded the Master of Technology in Material Science and Engineering *Under the guidance of* **Dr G. S. Ananthapadmanabha Head of the Department** *Dept. of PST, SJCE, JSSSTU, Mysuru* **DEPARTMENT OF POLYMER SCIENCE AND TECHNOLOGY SJCE, JSSSTU, Mysuru - 570006 JULY 2021**

**10.Sushmitha S** USN No. **01JST17PPS002** M.Tech Project Dissertation entitled “ **Design, Development and Performance Evaluation of BIO-Degrable Polyolefins**” evaluated and awarded the Master of Technology in Material Science and Engineering *Under the guidance of* **Dr.Kameshwari Devi SH** *Dept. of PST, SJCE, JSSSTU, Mysuru* **DEPARTMENT OF POLYMER SCIENCE AND TECHNOLOGY.SJCE, JSSSTU, Mysuru - 570006 JULY 2019.**

9. Megha M. USN No. 01JST17PPS001 , M.Tech. Project Dissertation entitled “**Synthesis and Characterization of Composite Electrolytes of Sulphonic acid cross linked Poly(vinyl alcohol)incorporated with Sulfonated Graphite oxide Proton exchange Membrane for fuel cell Applications** ” evaluated and awarded the Master of Technology in Material Science and Engineering *Under the guidance of* **Dr A B Hemavathi Assistant professor, Dept. of PST, SJCE, JSSSTU, Mysuru** **DEPARTMENT OF POLYMER SCIENCE AND TECHNOLOGY. SJCE, JSSSTU, Mysuru -570006 JULY 2019.**

**8.JSS Science and Technological University, Mysore**

**7.Jayachamarajendra College of Engineer, Mysore**

**6.JSS Science and Technological University ,Mysore**

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# RESUME

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**5.Evaluation of M.Tech Project of Mr.TEJAS MP Reg No.No. 01JST17PPS 003 , Department of Polymer Science & Technology, JSS Mahavidyapeetha, JSS Science and Technology University, Title of Dissertation “Application of Quality Philosophies and Scientific Injection Molding in reducing the In-House Rejections.”**

**4.Evaluation of M.Tech Project of Mr. Harish Chavan USN No: OIJST18 PMS004 , Department of Polymer Science & Technology, JSS Mahavidyapeetha, JSS Science and Technology University, Title of Dissertation “ Synthesis and Characterization of Newly generated nano gamma alumina as abrasives”.Dissertation submitted to the award og the Degree og Master of Technology in Material Science & Engineering, Under the Guidance of Prof.Siddaramaiah, Professor and HOD, JSS Science and Technology University, Mysore.**

**3Attended M.Tech Project Viva-voce examination on 24<sup>th</sup> August 2019 at the Department of Polymer Science and Technology ,JSS Science and Technology University ,Mysuru.**

**2.Evaluation of Reactive Diluents in Water Borne Two Component Polyurethane Technology**  
Thesis submitted to the Award of the Degree of **Master of Technology in Polymer Science & Technology** by Venkatesh M ( 4JCO9PST 16) Under the Guidance of **Dr. GM Shashidhara, Department of Polymer Science and Technology, Sri Jayacharajendra College of Engineering Mysore Sponsored by AkzoNobel Automotive and Aerospace Coatings, International Research Center, Bangalore, July 2011.**

**1.Building Block Development of Water based Two Polyurethane Pigmented System**  
Thesis submitted to the Award of the Degree of **Master of Technology in Polymer Science & Technology** by Javalageri Manjuvani ( 4JCO9PST 06) Under the Guidance of **Dr. Siddaramaiah, Department of Polymer Science and Technology, Sri Jayacharajendra College of Engineering Mysore Sponsored by AkzoNobel Automotive and Aerospace Coatings, International Research Center, Bangalore, July 2011.**

## **SPECIAL LECTURES**

**Technical Lecture on “ Structure Property Relationships of Polymers ” held at Vidyavardhaka College of Engineering ,Mysore, on 19<sup>th</sup> December 2023**

**Special Lecture on Introduction to Polymers Delivered at at Vidyavardhaka College of Engineering , Mysore.**

Introduction to Polymers and their uses in day to day life- Dept of Post-graduate Studies in chemistry, Government Science College , Chitraduga, Kuvempu University.

Introduction to Polymers and their uses in day to day life- for B.Sc chemistry students, Government Science College , Challakere, Kuvempu University.

Introduction to Polymer Blends , Dept of Post Graduate Studies in chemistry, Bharathi college, KM Doddi, Maddur Taluk, Mandya.

Specialty Polymers, for B.Sc Chemistry students , GOVERNMENT OF Karnataka, Department of Collegiate Education ,Government science College for Women , Vijayanagara , Mysore-570 008,an auspicious of National Science Day Celebration on 28.02.2015.

Delivered ( 08 Hours) a special Lectures on Conducting Polymers on 19<sup>th</sup> and 20<sup>th</sup> April 2019 at Kuvempu University, Post Graduation Centre, Kadur.

## INVITED LECTURES / TALKS

1. Miscibility studies of HPMC/ PEG Blends in Water by Viscosity, Density, Refractive index and Ultrasonic Velocity Method. IL 67 **Invited Lecture Second International Conference on Polymer Blends, Composites, IPNs, Membranes, Polyelectrolyte and Gels: Macro to Nano Scales ICBC-2008**, on Sept.22,23and 24, 2008 Held at School of Chemical Sciences, Mahatma Gandhi University, Priyadarshini Hills P.O. Kottayam,Kerala-686 560 ,INDIA

2.**POLYCON -2011 ,25-26 April 2011 ,5<sup>th</sup> National Conference on Plastic and Rubber Technology NCPRT Organized by Department of polymer Science & Technology, Sri Jayachamarajendra College of Engineering Mysore Invited Talk Applications and Miscibility Studies of Some Water-Soluble Polymer Blends by Low cost Physical Techniques Invited Talk No. 7 T.Demappa Page No.33**

3.Plasticized Hydroxy propyl methyl Cellulose (HPMC) edible polymer blend films and their applications in Food Packaging Materials Invited talk in National Seminar on Advances in Polymeric Materials APM -2012Department of Polymer Science and Technology Sri Krishnadevaraya University Anantapur, Andrapradesh on 16<sup>th</sup> and 17<sup>th</sup> March 2012 **Invited Talk**

4.**T.Demappa**, National seminar on “ Recent Trends in Polymer Science & Technology -2013. At Sri Krishnadevaraya University, Anantapuram. Andrapradesh. **Invited talk.**

5.**T. Demappa** Polycon 2014, 6<sup>th</sup>**National Conference** on Advances in Polymeric Materials 25<sup>th</sup> and 26<sup>th</sup> April 2014,organized by Department of Polymer Science and Technology. In Association with Indian Rubber Institute Karnataka Branch, Mysore.**Invited Lecture IL 11.**

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6. Planary invited talk on water- soluble Polymer blends in Poly CON 2014, JSS College of Engineering, Mysore.

7. **T Demappa** and LR Shiva kumara Water Soluble Polymer Blends: paper presented both in **poster and invited talk** Golden Jubilee Celebrations of Department of Studies in Chemistry Manasagangothri, University of Mysore, Mysore-570 006. UPE Project, University of Mysore Sponsored National Conference of Pure and Applied Chemistry (NACOPAC- 2014). On 29.12.2014- 31.12.2014, held at Dept of Chemistry, university of Mysore, Mysore-6

8. **T Demappa** and LR Shiva kumara Miscibility Studies of HPMC/ Starch by Using Density, Viscosity and Refractive index Method. **Paper presented in Poster and Invited talk, pp 32, page (FACS-2015) NATIONAL CONFERENCE On FRONTIER AREAS IN CHEMICAL SCIENCE – 2015 on Jan10<sup>th</sup> 2015.** Organised by the **Department of studies in Chemistry (UG/PG) Bharathi College Bharathi Nagar Maddur Taluk, Mandya District.**

9. Mahadevaiah, LR Shiva kumara and **T Demappa** Mechanical and Barrier Properties of Hydroxy propyl methyl cellulose (HPMC) Edible polymer films with Plasticizers Combinations **International Conference** on Advanced Materials and Technology (ICMAT -16)26<sup>th</sup> -28<sup>th</sup> May 2016 TEQIP –II Initiative, Sri Jayachamarajendra College of Engineering Mysore  
**Invited Talk at ICMAT -16 ( INV 4) page 59**

10. **T Demappa** and T Nirananprabhu 26<sup>th</sup> **International Conference** on the Processing and Fabrication of the Advanced Materials (PFAM-26), which has held at the **Chonbuk National University, Jeonju, Korea** during October 16 - 21<sup>st</sup>, 2017. **Invited speaker page No. 134**

11. T Demappa. Participated in the **International Conference** on Recent Trends in Humanities and Science during 25-27 October 2018. Has presented a research article on “Economic and Industrial Importance of Natural Fibers/Polymers” held at Universiti Tunku Abdul Rahman, **Malaysia** jointly organized by Arunai International Research Foundation, Haldia Institute of Technology and Universiti Tunku Abdul Rahman.

12. **Invited speech and Chair of “5<sup>th</sup> International Congress on request for my research in Hydrogels BIOMATERIALS & BIOSENSORS CONFERENCE held on October 14- 20, 2020 in Blue Lagoon, Fethiye/Mugla- TYRKEY. Invited talk 30 minutes ,10minutes question -answer session. Invited by A . Yavuz Oral, Ph.D. Professor of Materials Science Engineering, Gebze Technical University.**

13. T Demappa “**Industrial Applications and Economical importance of Natural fibers/polymers**” **International conference** on Advanced Functional Materials for Energy, Environment and Health care (AFMEEHC) organized by Center for Materials Science and Technology, Vijnan Bhavan, University of Mysore, Manasagangothri, Mysore Sponsored by University with Potential for Excellence (UPE). Oral presentation, **Invited talk** and **Chairman of the Technical Session A** Hadadi Yallappa<sup>1</sup>; J.Sannappa<sup>2</sup>; B.N.Samartha Rama<sup>1</sup> and T.Demappa<sup>3</sup>

13 **T.Demappa** and L.R. Shivakumara

STRUCTURAL MODIFICATION OF NATURAL FIBERS

**Invited Talk and Tecnical Session chairman.**

**Second International Conference on Advanced Materials & Technology (ICMAT-20)**

**16<sup>th</sup> – 18<sup>th</sup> , January 2020 TEQIP –III Initiative, Organized by JSS Mahavidyapeetha JSS Science and Technology University Sri Jayachamarajendra College of Engineering Mysuru-570 006, Karnataka , India . In association with Chanbuk National University, South Korea & MLV Textile & Engineering College ,Bhilwara.**

**INV 27, Page 57.**

**14 T.Demappa 3 – day National Level FDP/ SDP Webinar** on “ Recent Developments in Material Science and Radiation Technology”, Department of Physics held from 8th July – 10th July 2020 , Vidyavardhaka College of Engineering, Accredited by NAAC with “A” grade , Gokulam III Stage , Mysuru. **Invited Talk** on **Polymer Composites.**

15.T.Demappa, “Industrial and Economic Importance of Natural Fibers/Polymers”International Conference on Emerging Trends in Multidisciplinary Research (**ICETMR- 2020**). The International conference Jointly Organised by Gulf American University and Arunai International Research Foundation to be held at DUBAI on 8<sup>th</sup> and 9<sup>th</sup> May 2020. I am invited as a **Key note** speaker.

**16 T.Demappa 3 – day National Level FDP/ SDP Webinar** on “ Recent Developments in Material Science and Radiation Technology”, Department of Physics held from 8th July – 10th July 2020 , Vidyavardhaka College of Engineering, Accredited by NAAC with “A” grade , Gokulam III Stage , Mysuru. **Invited Talk** on **Polymer Composites.**

**17 T.Demappa** Attended Online **panel Discussion** on “ **Progression of Polymer Education and Polymer Industry** Department of Polymer Science and Technology, JSS Science and Technology University, Mysore On 18<sup>th</sup> July 2020 11am – 1pm

**18. T.Demappa, has Delivered a invited Talk on “Thermal,Mechanical, Electrical and Optical Properties of Polymer Composite Films” in International Symposium on Advanced Research in Physics organized Jointly by the Department of Physics , Bangalore University , Bangaluru and Sir M Visvesvaraya –ISRO Chair, Bangalore University, Bangaluru, India during 27July 2020.**

**19.T Demappa** has attended **One day National Webinar** on “ **Perspectives in Modern Physics**” **Department of Physics** , Jnanasahyadri , Kuvempu University, Shankaraghatta ,Shivamoga on 29<sup>th</sup> August 2020.

**20** Grafting of Natural Fibers/Banana cellulose, Two Days **National conference** on “**Advanced Functional Materials and Engineering**”

21.10.2020 and 22.10.2020.P.K.R. Arts Collge for Women Accredited “A” Grade by **NAAC**, An Autonomous Institution Affiliated to **BHARATHIAR** University,Gopichettipalayam ,Department of Physics.

**21 Grafting of Banana cellulose. International Online Conference on Macromolecules (ICM 2020)**“100 years of Polymer Science –from past to Future “.

**Organized by Mahatma Gandhi University, P.D.Hills , P .O, Kottayam,Kerala ,India.& Gdansk UNiversityof Technology, Gdansk,Poland. November 13<sup>th</sup> 2020 – 15<sup>th</sup> November 2020.**

**22. National Conference on Recent Advances in Physics for Interdisciplinary Development (RAPID- 2k21),29<sup>th</sup> -30<sup>th</sup> September,2021, S.J.V.P College,Harihara, Karnataka, Oranized by Sri Saila Jagadguru Vageesha Panditharadya (S.J.V.P) College and PG Centre Hariahara in Collaboration with Public Awareness Institution (PAI),®, Mysore.**

**As Invited Speaker and Session Chairman**

**23.Virtual Conference Chair Invitation**

**Journals@weentech.co.uk.**

**On behalf of WEENTECH publishers invite me to chair a series of virtual conferences and they request me to suggest some topics of the conference on 27 Dec,2020.The editorial Manager - IJET and WPE , Dr Snigdha Mohan Head office ,Sunbeam Way,West Midlands, Coventry, CV3 1PG, United kingdom and Regional Office WEENTECH Publishers India Private Ltd. Lakhimpur Kheri,UP,India would be said grateful to me for my acceptance.**

**23. POLYMERS ON ENERGY, HEALTH AND ENVIRONMENTAL APPLICATIONS**

**On 27- 10-2021 Invited speak ,Session 9.**

**Advanced Polymers for Energy Conversion**

**CAMBRIDGE INSTITUTE OF TECHNOLOGY Approved by AICTE, New Delhi, Affiliated to VTU Belagavi Recognized by Govt.of Kranataka Accredited by NBA & NAAC**

**AICTE SPONSORED FIVE DAYS FDP ON 25<sup>th</sup> to 29<sup>th</sup> October 2021 organized by Department of Basic Sciences**



## **PROJECTS /DISSERTATIONS SUPERVISED M.Sc, PROGRAMME**

1.Guided more than 100 M. Sc., Students for their Projects/ dissertation work in the Department of Polymer Science, University of Mysore, Sir M Visvesvaray post graduate Centre, Industrial area ,Tubinakere, Mandya.

2.Guided more than 15 M.Sc Chemistry students from Chitradurga Govt Science college (Kuvempu University) for their Dissertation work.Eample Arun T; Prashanth M Angadi; Sanjay T; Santhosh HM ,and Shivakumara LR.

3.Guided more than 10 M.Sc Chemistry students from Chitradurga Govt Science college (Davanagere University) for their Dissertation work.

4.Guided more than 5 M.Sc Chemistry students from Chitradurga SJM College (Kuvempu University) for their Dissertation work.

5.Guided more than 2 M.Sc Chemistry students from KR PET Govt Science college ( Mysore University) for their Dissertation work.

6. Guided more than 5 M.Sc Chemistry students from Maharani's Science college for Women (Mysore University) for their Dissertation work.

7. Guided more than 15 M.Sc Chemistry students from Bharati College, KM Doddi college ( Mysore University) for their Dissertation work.

8.Guided more than 5 M.Sc Chemistry students from Govt. Science college for Women, Mandya (Mysore University) for their Dissertation work.

9.Synthesis of Poly Acrylonitrile from Cerium(IV) -oxalic acid by Redox polymerization. A project report of M.Sc Chemistry IV semester Submitted to the University of Mysore for the Award of the Degree of Master of Science in Chemistry by Mr. Gurunath Janulanavar , PG Dept of Chemistry, Bharathi Education Trust, Madduru, KM Doddi , Mandya 2010

10.Synthesis of polyacrylic acid from acrylic acid monomer and its Characterization A project report of M.Sc Chemistry IV semester Submitted to the University of Mysore for the Award of the Degree of Master of Science in Chemistry , by Mss M.C.Ashwini, PG Dept of Chemistry, Bharathi Education Trust, Madduru, KM Doddi , Mandya 2010

# RESUME

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11.Redox Polymerization of Acrylonitrile initiated by the Cerium (IV) – Citric acidRedox System, A project report of M.Sc Chemistry IV semester Submitted to the University of Mysore for the Award of the Degree of Master of Science in Chemistry, by Mss Mary Leiza, Menter by Dr Mallamma and Prof. T Demappa , Associate Professor of Chemistry , Post Graduate Department of Chemistry , Maharani' Science College for Women, JLB Road, Mysore 2011

12. Synthesis and Characterization of poyacrylonitrile by Redox Polymerization Technique. A project report of M.Sc Chemistry IV semester Submitted to the University of Mysore for the Award of the Degree of Master of Science in Chemistry , by Mss Spoorthy .HP , Menter by Dr Mallamma and Prof. T Demappa , Associate Professor of Chemistry , Post Graduate Department of Chemistry , Maharani' Science College for Women, JLB Road, Mysore 2011

13.Miscibiity studies of PVP/PEG blends in water by using Viscosity ,Density, Refractive index and Ultrasonic velocity Method A project report of M.Sc Chemistry IV semester Submitted to the University of Mysore for the Award of the Degree of Master of Science in Chemistry , by Mss Deepashree B.K Menter by Dr BP Dayananda and Prof. T Demappa , Associate Professor of Chemistry , Post Graduate Department of Chemistry , Maharani' Science College for Women, JLB Road, Mysore 2011

14. Miscibiity studies of PVP/HPMC blends in water by using Viscosity ,Density, Refractive index and Ultrasonic velocity Method. A project report of M.Sc Chemistry IV semester Submitted to the University of Mysore for the Award of the Degree of Master of Science in Chemistry, by Mss M.S.Nagajyothi, Menter by Dr BP Dayananda , Associate Professor of Chemistry , Post Graduate Department of Chemistry , Maharani' Science College for Women, JLB Road, Mysore 2011

15.Miscibiity studies of PVP/PVA blends in water by using Viscosity ,Density, Refractive index and Ultrasonic velocity Method. A project report of M.Sc Chemistry IV semester Submitted to the University of Mysore for the Award of the Degree of Master of Science in Chemistry, by Mss, Razia Sultana Menter by Dr BP Dayananda, Associate Professor of Chemistry , Post Graduate Department of Chemistry , Maharani' Science College for Women, JLB Road, Mysore 2011

16.Miscibiity studies of Starch /HPMCblends in water by using Viscosity ,Density, Refractive index and Ultrasonic velocity Method – A project report of M.Sc Chemistry IV semester Submitted to the Kuvrmpu University for the Award of the Degree of Master of Science in Chemistry, by Mr LR Shivakumar Govrnment Science College Chitradurga 2011

17 Synthesis of Polyacrylamide and its characterization — A project report of M.Sc Chemistry IV semester Submitted to the Kuvrmpu University for the Award of the Degree of Master of Science in Chemistry, by Mr. Santhosh kumar HM and Prashanth Angadi, Govrnment Science College Chitradurga 2011

18. Miscibiity studies of PVA /Starch blends in water by using Viscosity ,Density, Refractive index and Ultrasonic velocity Method – A project report of M.Sc Chemistry IV semester Submitted to the Kuvrmpu University for the Award of the Degree of Master of Science in Chemistry, by Sanjay and Arun Govrnment Science College Chitradurga 2011

19. Multivoltin Mulberry silk fibre modification through Graft Copolymerization using Acrylonitrile monomer -- Maitri Biswas 2012, Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

20. Bivoltin Mulberry silk fibre modification through Graft Copolymerization using Acrylonitrile monomer -- Nikitha P 2012 , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

21. Synthesis and Characterization of Polyacrylamide and Polyacrylic acid Co- polymer ----- Sowmya V 2013, Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

22. Grafting of Acrylonitrile onto Banana Cellulose using Cerium (IV) redox System---- Anushree K. 2013, Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

24. Grafting of Acrylonitrile onto Cotton Cellulose using Cerium (IV)- oxalic acid redox System ---- Maqsooda Banu 2014 .A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

25. Miscibility studies of HPMC / Gaurgum blends in water by using Viscosity ,Density, Refractive index and Ultrasonic velocity Method – Vineeth kumar PV, . A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

26. Miscibility studies of GUM Arabica/HPMC blends in water by using Viscosity ,Density, Refractive index and Ultrasonic velocity Method – Kripa K 2013, .A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

27. Karthik . HPMC/PEG immiscible polymer blends converted to miscible polymer blends using graphene oxide by viscosity, density, refractive index and ultrasonic velocity Method. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

28. Latha. Chitosan/HPMC immiscible polymer blends converted to miscible polymer blends using graphene oxide by viscosity, density, refractive index and ultrasonic velocity Method. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

29. Puja B.A. HPMC/PVA immiscible polymer blends converted to miscible polymer blends using graphene oxide by viscosity, density, refractive index and ultrasonic velocity Method. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

30. Ravikiran BM The xanthan gum /PVA immiscible polymer blends converted to miscible polymer blends using graphene oxide by viscosity, density, refractive index and ultrasonic velocity Method. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

# RESUME

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31.Chandana BG Reg No. PS 116001 Synthesis and Characterization of Graphene oxide (GO) nanoparticles Reinforced Methylcellulose /PVA polymer composite films.2018-2019. Grafting of Acrylonitrile on to Guar Gum under Redox polymerization.2018-2019.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

32.Dayananda S Budamannanavar Reg.No PS 116002. Preparation and Characterization of Etylene Octene copolymer based hybrid composites for X- Ray Radiation Shielding 2018-2019. Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

33.Drishya PP RegNo. PS116003 Grafting of Acrylonitrile on to Guar Gum under Redox polymerization.2018-2019.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

34.Gokul Gangadharan P. Reg No. PS116004 Studies on Thermoplastic Polyurethane composites for X- ray Radiation Shielding Applications 2018-2019.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

35.Induchandran RegPS116005 Synthesis and Characterization of Acrylonitrile Grafted onto Silk fibroin. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

36.Jeeva RegNo. PS116006 Modification Silk fibroin through Graft copolymerization using Acrylonitrile monomer 2018-2019.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

37.Rajeesh RegNo. PS116007 Studies on Thermoplastic polyurethane composites for X-ray Radiation Shielding Applications.2018-2019. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

38.Ramya P Reg No. PS116008. Synthesis and CHARACTERIZATION OF Graphene oxide (GO) nanoparticles Reinforced CMC/ PVA Polymer Composite films.2018-2019. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

39.Sooraj TV. RegNo.PS116009. Preparation and characterization of Ethylene octene Copolymer based Hybrid Composites for X-ray Radiation Shielding 2018-2019.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

39..Sreevidya AV. RegNo. PS116010. Structural modification of Gelatin through Graft Co-polymerization using Acrylonitrile monomer.2018-2019. A dissertation submitted to the University of Mysore in

partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

41.Ashwathy KV. Reg No. PS117001 Synthesis and characterization of graphene oxide (GO ) based hybrid nanoparticles doped sodium salt of CMC polymer nanocomposite films.2019-20.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

42Divyalakshmi RegNo. PS117002 Synthesis and Characterization of ZnO nanoparticles incorporated CMC sodium salt / PVA nanocomposite films2019-20.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

43.SunilkumaraReg.No. PS117004 & Sreehari Reg.No. PS117003 Study on Mechanical and sorption properties of Wood dust Reinforced Epoxy composites.2019-20.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

44.Swetha C Reg.No. PS117005 A comparative study of Graphene oxide (GO)/Nickel oxide(NiO) and GO/ Reduced graphene oxide(RGO) hybrid nanoparticles incorporated PVA nanocomposites.2019-20. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,MandyaDepartment of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

45.Divya H.M Reg No. PS118003 Synthesis and Characterization of Graphene oxide (GO)based hybrid nanoparticles incorporated pectin nanocomposite films 2019-2020.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

46..Nandini S Reg.No. PS118006 and Pavanakumara Reg.No. PS118008 “Mechanical and Barrier Properties of Carboxy methyl cellulose Edible polymer films with plasticizer combinations”2019-20 Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

47.Nayanamohan RegNo. PS118007 and Rashmi Kunhiraman RegNo. PS118011 Synthesis and Characterization of Chemically cross-linked Pectin /Acrylamide based hydrogels for Drug Delivery.2020.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

48.Indusree P. Reg No.PS118004 and Shruthila C H. Reg No. PS118012. “Synthesis and Characterization of Chemically Cross-linked Acrylamide Based Hydrogels for Drug delivery .2019-20. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

49Nayana RegNo PS118009.“Synthesis and Characterization of Chemically Cross-linked Acrylic acid Based Hydrogels for Drug delivery .2019-20.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.



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50.Priyanka Reg.No. PS118010 Synthesis and Characterization of Emulsion Paint .2020. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.

51. Sneha David K Reg No. CH117290 Banana cellulose structural modification through Graft copolymerization using Acrylonitrile monomer.A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Chemistry, Dept of science in Chemistry, Bharathi College , PG and Research Center, Bharathinagara, Madduru taluk, Mandya 571422, under the Guidance of Prof.T Demappa and Dr. Ashwini. 2019.

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58.Vineeth KP Reg No. PS119006 “ Review on Synthesis ,properties and Applications of ZnO nanoparticles reinforced Polymer Composite films”. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore,SirM.V.PG. Centre,Mandya.



# RESUME

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59. Akhilesh PK Registration No. PS119001” Review on Synthesis and Applications of Graphene oxide reinforced polymer nanocomposites “2020-2021. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya

60. Nikhil V registration No. PS 119002 “ Anticancer Activity of Gold nanoparticles using Plant extraction “ 2020-2021. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya.

61. Vinayaka Hirematha Registration No. PS 115004 “Recycling of Waste water bottles and Partially miscible Polymeric blends of CMC /Sodium alginate converted to Miscible polymer blends using ZnO nanoparticles” 19-06-2017. A dissertation submitted to the University of Mysore in partial fulfillment for the degree of Master of Science in Polymer Science , Department of polymer Science, University of Mysore, SirM.V.PG. Centre, Mandya .

62.

## COUNTRIES VISITED

Seoul, Shanghai, Singapore, Malaysia, South Korea. United Arab Emirates: Abu Dhabi, Dubai, Sharjah,

An organizing committee chair of PFAM- XXVI, it is an honor and privilege to invite me to this conference as Invited Speaker to deliver the talk on the topic “Effect of clay Nano particles and polypropylene short fibers in Epoxy Based composites ”

Participated in the International Conference on Recent Trends in Humanities and Science during 25-27 October 2018. Has presented a research article on “Economic and Industrial Importance of Natural Fibers/Polymers “held at Universiti Tunku Abdul Rahman, Malaysia jointly organized by Arunai International Research Foundation, Haldia Institute of Technology and Universiti Tunku Abdul Rahman. **Invited Talk.**

## LIST OF RESEARCH PUBLICATIONS

95.LR SHIVAKUMARA; T.DEMAPPA\* SAWDUST REINFORCED EPOXY POLYMER COMPOSITES

Accepted Bullitin materials of Science

94.S.Kusuma devi, N.Nanjundaswamy , LR Shivakumara , T N Seshan and T.Demappa. Graft Co-polymerization of Acrylonitrile onto Banana Cellulose Fiber . Asian Journal of Chemistry ; Vol.36.No. 3 (2024) ,635-643.

93. **B. N. Samartharama<sup>1</sup>, M. R. Ambika<sup>2</sup>, T. Demappa<sup>3</sup> and N. Nagaiah<sup>4</sup>\***

Effect of Sodium Iodide on Structural, Electrical and Optical Properties of Polyethylene Oxide/ Carboxymethyl Cellulose Blends

*Journal of Mines, Metals and Fuels, 71(10): 1469-1473; 2023. DOI: 10.18311/jmmf/2023/35787*

92 T.C.Raveesha, Kemparaje gowda, Hassan A Swarup, BK Kempegowda and T Demappa

An Efficient ,One -Post Synthesis of 1,3-Disubstituted imidazo[ 1,5-  $\alpha$ ]pyridines, Fe (OTf)<sub>3</sub> Mediated C-C Bond Formation. Asian Journal of Chemistry, Vol.35, No. 5 (2023), 1225-1230.

91. **Sunil Kumar<sup>1,2</sup>, Sandhya Rani Nagarajaiah<sup>3</sup>, Raghu S<sup>4</sup>, Sandeep Dongre<sup>1</sup>, Demappa Thippaiah<sup>5</sup>, Sannappa Jادیyappa<sup>1,\*</sup>**

**Dielectric and Conductivity Study of Salt-Doped HPMC Solid Polymer Electrolyte Films**

**Biointerface Research in Applied Chemistry, Volume 13, Issue 6, 2023, 529**

<https://doi.org/10.33263/BRIAC136.529>

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"Demappa T" [tdemappa2003@yahoo.co.in](mailto:tdemappa2003@yahoo.co.in), "Ismayil ." [ismayil.mit@manipal.edu](mailto:ismayil.mit@manipal.edu), "Vipin Cyriac" [vipincyriac1729@gmail.com](mailto:vipincyriac1729@gmail.com)

We are pleased to inform you that your manuscript,

"Studies on structural and electrical properties of NaI doped PEO/CMC blend solid polymer electrolyte", has been accepted for publication in the Journal of Polymer Research.

Please remember to quote the manuscript number, JPOL-D-22-00437R1, whenever inquiring about your manuscript.

89 Somesh T.E.<sup>a,b</sup>, Siddaramaiah<sup>a</sup>, T. Demappa<sup>b,\*</sup>

Tailoring of ternary nanocomposite films of poly(vinyl alcohol)/ AgAlO<sub>2</sub>@reduced graphene oxide:

An active material for flexible supercapacitors

[Journal of Solid State Chemistry 309 \(2022\) 122824](#)

journal homepage: [www.elsevier.com/locate/jssc](http://www.elsevier.com/locate/jssc) ISSN Print: 0974-6846, Electronic: 0974-5645

88. TE Somesh<sup>1,2</sup>, L R Shivakumar<sup>1</sup>, M A Sangamesh<sup>3</sup>, Siddaramaiah<sup>2</sup>, T Demappa<sup>1</sup>

Polymer nanocomposites comprising PVA matrix and AgGaO<sub>2</sub> nanofillers: Probing the effect of intercalation on optical and dielectric response for optoelectronic applications

**INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY**

**Received:** 29.08.2021 **Accepted:** 07.09.2021 **Published:** 22.09.2021

87. SUNIL KUMAR<sup>1,2</sup>, S. RAGHU<sup>3</sup>, T. DEMAPPA<sup>4</sup>, and J. SANNAPPA<sup>2,\*</sup>,

**Effect of NaBr on the Structural, Thermal and Mechanical Properties of HPMC:NaBr**

**Composite Films**

*Asian Journal of Chemistry; Vol. 34, No. 2 (2022), 305-310*

<https://doi.org/10.14233/ajchem.2022.23507>

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,

## **Structural and Mechanical characteristic study of HPMC polymer composite films**

Second International Conference on Physics of Materials and Nanotechnology

IOP Conf. Series: Materials Science and Engineering

1221 (2022) 012011 IOP Publishing doi:10.1088/1757-899X/1221/1/012011

## **85 Samartharama B N1, Nagaiah N2, Demappa T3, Ambika M R4 and Devendrappa H5**

Investigation on Electrical properties of PEO/CMC solid polymer blend electrolyte

2022 *IOP Conf. Ser.: Mater. Sci. Eng.* **1221** 012028

IOP Conference Series: Materials Science and Engineering

1221(2022) 012028 IOP Publishing doi:10.1088/1757-899X/1221/1/012028

## **84 Sunilkumar1,3 · Thippaiah Demappa2 · J Sannappa3**

Influence of KI salt concentration on the Hydroxypropyl methylcellulose films: Optical study.

Posted Date: August 4th, 2021 DOI: <https://doi.org/10.21203/rs.3.rs-770530/v1>

## **83. T E Somesh1,2, L R Shivakumar1, M A Sangamesh3, Siddaramaiah2, T Demappa1\***

Polymer nanocomposites comprising PVA matrix and AgGaO<sub>2</sub> nanofillers: Probing the effect of intercalation on optical and dielectric response for optoelectronic applications

## **82. Madhusudan T, GP Mamatha , T Demappa and ND Sathyanarayana**

Synthesis, Characterization, and Doxycycline Drug Release from Poly( acrylic acid) hydrogel , communicated to Thai Journal of Pharmaceutical Science

Manuscript id: TJPS – 2021-0244

## **81. Vijayashree Kothathi, Seshappa K Rai, Demappa Thippaiah,\* Gowtham Gajendramurthy and Sudarshan, A study on Antimicrobial activity of Nano-sized CuO Synthesized by Microwave Radiation Assimilation. Journal of Experimental Zoology India . Vol.24, No.2, pp.967-972, 2021. ISSN 0972-0030 and eISSN 0976-1780.**

## **80. Madhusudhan T, GP Mamatha, T Demappa and N D Sathyanarayana**

“Poly (acrylamide –co-acrylic acid ) synthesized , Moxifloxacin Drug –loaded hydrogel: Characterization and evaluation studies”(Manuscript Number: JAPS-2021-06- 597 ) Journal of Applied Pharmaceutical Science.

Journal of Applied Pharmaceutical Science .Vol. 0(00), pp 001-008, August,2021.

**Accepted**

# RESUME

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I am pleased to inform you that your manuscript titled "Poly(acrylamide-co-acrylic acid) synthesized, moxifloxacin drug-loaded hydrogel: Characterization and evaluation studies" (Manuscript Number: JAPS-2021-06-597) is provisionally accepted for publication in the Journal of Applied Pharmaceutical Science.

79 Samartha Rama Banavathi Nagaraja, Nagaiah Ningaiahb, Ambika Madalakote Rajannac, Hadadi Yallappaa, and Demappa Thippaiahd

Miscibility study of poly(ethylene oxide)/carboxymethylcellulose blend

INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION.

Taylor & Francies groups

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Influence of NaF salt doping on electrical and optical properties of PVA/PVP polymer blend electrolyte films for battery application.**J Mater Sci: Mater Electron**.<https://doi.org/10.1007/s10854-021-05274-1>**J Mater Sci: Mater Electron** Content courtesy of Springer Nature, terms of use apply. Rights reserved.

75. Hendre Lakshmi A<sup>1</sup>, Lachakal Rudrappa Shivakumara<sup>2</sup>, **Demappa T**, Iliger Sudhir R<sup>2</sup>, Joshi Ashwini S<sup>1</sup>, Uppin Mahananda<sup>1</sup>, Kulkarni VH<sup>1</sup>, Karigar AA<sup>3</sup>  
FORMULATION AND EVALUATION OF ORODISPERSIVE TABLETS OF AN ANTI-DIABETIC DRUG

**UNIQUE JOURNAL OF PHARMACEUTICAL AND BIOLOGICAL SCIENCES** Available online: [www.ujconline.net](http://www.ujconline.net) ISSN 2347-3614UJPBS 2020, 08 (05): Page XXXX

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[Analysis of supramolecular self-assembly of two chromene derivatives: Synthesis, crystal structure, Hirshfeld surface, quantum computational and molecular docking studies](#)

**JOURNAL OF MOLECULAR STRUCTURE** ( IF 2.463 ) Pub Date : 2020-08-18 ,

DOI: [10.1016/j.molstruc.2020.129104](https://doi.org/10.1016/j.molstruc.2020.129104)

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Accepted

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by viscosity, density, refractive index and ultrasonic velocity Methods. **International Journal of Scientific progress and Research (IJSPR)**, Issue 116, volume 41, number 01, 2017 SJIF: **5.749**

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62. **Mahadevaiah<sup>1</sup>, Thejas Urs G<sup>1</sup>, T Demappa<sup>2</sup> and R Somashekar<sup>1</sup>**

**Characterization of Zinc Nanoferrite Doped HPMC Polymers Using X-Ray Diffraction**

Journal of Nuclear Physics, Material Sciences, Radiation and Applications Vol. 1, No. 2 February

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*Doi: 10.1111/jfpp.13020 Publishers: Wiley-Blackwell***1.405 2.190**
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- 52.** K.Prashantha T.Niranjana Prabhu, **T.Demappa**, V.Harish Synergistic effect of clay and polypropylene short fibers in Epoxy-Polypropylene Short fibers - Clay Ternary Composite Hybrids *Advances in Material Research, an international journal* Vol .4 issue 2 , page 97- 111 year 8.9.2015 Publisher:[Techno-press](#) (South Korea) **1.88**
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- 49.**N.Sandhya Rani, J. Sannappa, **T.Demappa** and Mahadevaiah Gamma irradiation effects on Structural, thermal and electrical conductivity of ceric ammonium nitrate (CAN) doped HPMC based biopolymer electrolyte films. *IOSR Journal of Applied Physics (IOSR – JAP)*, Volume 6, issue 3, PP 30-41,2014 [International Organization Of Scientific Research \(IOSR\)](#)**1.345 2.286 3.15**

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46. Niranjana Prabhu T, Mahesh S.S, Nandaprakash M.B, **Demappa T**, Somashekar R Stacking Faults and Microstructural Parameters in Epoxy – Nylon Fabric – Clay Hybrid Laminates Using X- ray Whole Powder Pattern Fitting Technique *International Journal of Latest Technology in Engineering Management and Applied Sciences*. Volume III, Issue VII, July 2014 ISSN 2278-254 [C : 5.471 2.115](#)
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Effect of Microwave Radiation on Hydroxy propylmethyl Cellulose polymer films and HPMC/Poly(vinyl pyrrolidone) polymer blend films using the wide-angle x-ray technique  
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Microstructural Parameters of HPMC /PVP polymer Blends Using Wide Angle X-Ray Technique  
**Journal of Research updates in polymer science, 2012, 1, 24-31.**
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Characterization of HPMC/PVP polymer blend films Using WAXS technique *American Institute of  
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volume 2, Issue 1 (Sep –Oct. 2012), pp 39-44
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