Email ID:
kvijayalakshmi@mcc.edu.in

Name : Dr.K.Vijayalakshmi
Designation: Assistant Professor in Chemistry (SFS)
Education: M.Sc., M.Phil., Ph.D., SET
(UG/PG/M/Phil/Ph.D)

- B.Sc Chemistry
  D.K.M College for Women,Vellore
  University of Madras
  April-2004
- M.Sc Chemistry
  Muthurangam Govt Arts College, Vellore
  Thiruvalluvar University,
  April-2006
- SET Exam
  Bharathiar University
  April-2006
- M.Phil Chemistry
  Alagappa Univeristy, Karaikudi
  April-2008
- Ph.D Chemistry
  Thiruvalluvar University,
  August-2016

Brief Bio of 200 words containing the following items

a. Courses being taught by the faculty

   Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Coordination Chemistry, Material Science, Thermodynamics and Chemical Kinetics, Analytical Techniques in Chemistry, Medicinal Chemistry, Scientific Research Methodology, Bioinorganic Chemistry, Polymer Chemistry, Electrochemistry and Spectroscopy, Allied Chemistry

b. Research Projects / Publication (Recent ones)
   PG Projects: 15
   M.Phil Projects: 15
   Publications- 40
   Book Chapters published-11

c. Ph.D / M.Phil Guideship
   Mphil Guideship – Guided – 15
   Ph.D Guideship- Got under Thiruvalluvar Univeristy in 2019

C V Link

**Internal Page with complete CV with following items**

1. Name : Dr.K.Vijayalakshmi
2. Education : M.Sc., M.Phil., Ph.D., SET
3. Publications : 40

**Papers published in various National/International reputed Journals**

**2019**

- K Rani, T Gomathi, K Vijayalakshmi, M Saranya, PN SudhaBanana fiber Cellulose Nano Crystals grafted with butyl acrylate for heavy metal lead (II) removal, International journal of biological macromolecules,131, 461-472

**2018**

- S. Gokila , T. Gomathi , **K. Vijayalakshmi** , Faleh A. Alsharani , Sukumaran Anil , P.N. Sudha.(2018). Development of 3D scaffolds using nanochitosan/silk-fibroin/hyaluronic acid biomaterials for tissue engineering applications, International Journal of Biological Macromolecules 120, 876–885, ISSN No: 0141-8130.
- **K.Vijayalakshmi** and P.N.Sudha.(2018). Modeling fixed bed column for lead (II) removal from Aqueous solution using nanochitosan/sodium alginate/microcrystalline cellulose beads World Journal of pharamaceutical research, 7(4), 854-867, ISSN 2277– 7105 SJIF Impact factor:8.074.
- R.Bharathi Priyadharsini and **K.Vijayalakshmi**.(2018). Synthesis and characterization of chitosan (CS)/ cellulose acetate (CA) /polyvinyl alcohol (PVA) ternary blend, World Journal of pharamaceutical research, 7(3),1159-1173, ISSN 2277– 7105 SJIF Impact factor:8.074.
- S.Gomathi and **K.Vijayalakshmi**.(2018). Removal of fuschin dye from aqueous solution using chitosan/magnetic cellulose/ sugarcane bagasse beads World Journal of pharamaceutical research,7(4), 1287-1300, ISSN 2277– 7105 SJIF Impact factor:8.074.
- Santhalakshmi P., Saritha. S. and **Vijayalakshmi K**.(2018).Synthesis, characterization and antimicrobial activities of schiff base functionalised copper nanoparticles World Journal of pharamaceutical research,7(4), 1325-1343, ISSN 2277– 7105 SJIF Impact factor:8.074.
- E.Jothi and **K.Vijayalakshmi**.(2018).S-Alizarin red dye removal from aqueous solution using nanochitosan/iron nanoparticles/tamarind shell blend, World Journal of pharamaceutical research, 7(4), 1272-1286, ISSN 2277– 7105 SJIF Impact factor:8.074.
- E.Tamilarasi and **K.Vijayalakshmi**.(2018).Antimicrobial studies of nanochitosan/sodium alginate/modified rice husk beads, World Journal of pharamaceutical research , 7(4), 834-853, ISSN 2277– 7105 SJIF Impact factor:8.074.
- S. Manju, C. Bhuvaneswari, R. Bharathi Priyadarshini and **K. Vijayalakshmi**. (2018). Biomedical applications of chitosan-salicylaldehyde Schiff base/ polypropylene glycol blend, World Journal of pharamaceutical research, 7(4), 690-707, ISSN 2277– 7105 SJIF Impact factor:8.074.
- Sangeetha K., Devipriya D. and **Vijayalakshmi K**.(2018).Optimisation of grafting parameters of silica gel graft copolymers, World Journal of pharamaceutical research, 7(4), 673-689, ISSN 2277– 7105 SJIF Impact factor:8.074.

**2017**

- **K.Vijayalakshmi,** B.Mahalakshmi Devi, Srinivasan Latha, Thandapani Gomathi, P.N.Sudha, JayachandranVenkatesan, SukumaranAnil (2017) Batch adsorption and desorption studies on the removal of lead (II) from aqueous solution using nanochitosan/sodium alginate/ microcrystalline cellulose beads, International Journal of Biological macromolecules, Volume 104, Part B, 1483-1494; ISSN No: 0141-8130.
- P.Ajitha, **K.Vijayalakshmi**, M.Saranya, T.Gomathi, K.Rani, P.N.Sudha, Sukumaran Anil (2017). Removal of toxic heavy metal lead (II) using chitosan oligosaccharide-graft-maleic anhydride/polyvinyl alcohol/silk fibroin composite, International Journal of Biological macromolecules, Volume 104, Part B, November 2017, Pages 1469-1482, ISSN No: 0141-8130.
- R.Lavanya, T.Gomathi**, K.Vijayalakshmi**, M. Saranya , P.N.Sudha, Anil Sukumaran.(2017) Adsorptive removal of copper (II) and lead (II) using chitosan-g-maleic anhydride-g-methacrylic acid copolymer, *International Journal of Biological macromolecules,* 104(Pt B):1495-1508, ISSN No: 0141-8130.

**2016**

- **Vijayalakshmi, K.**, Mahalakshmi, B. , Devi, .Sudha, Venkatesan, J. and.Anil, S. (2016) Synthesis, Characterization and applications of nanochitosan/sodium alginate/ microcrystalline cellulose film, *Journal of nanomedicine and nanotechnology*, 7(6), 1-11, ISSN No: 2157-7439
- Sheela, B. , Kalaiarasi, K. , **Vijayalakshmi,K.,** P.N.Sudha.(2016) Optimization of grafting parameters of nylon6-graft-acrylic acid copolymer using CAN as an initiator, *International Journal of Appliied and Advanced Scientific research*, 1(2), 9-16, ISSN No (Online): 2456-3080.
- Shakila, P. Rekha, K.R. **Vijayalakshmi, K.,** Sudha, P. N.(2016). Synthesis, characterization and optimisation of carboxymethyl chitosan graft gylcidyl Advanced methacrylate copolymer, *International Journal of Appliied and Scientific research,* 1(2), 38-46, ISSN No (Online): 2456-3080.
- **K. Vijayalakshmi ,** Thandapani Gomathi , Srinivasan Latha, T. Hajeeth, P.N. Sudha.(2016) Removal of copper (II) from aqueous solution using nanochitosan/sodium alginate/microcrystalline cellulose beads, International Journal of Biological Macrocmolecules, Volume 82, pp-440–452

**2014**

- B. Mahalakshmi Devi, Srinivasan Latha, D. Umamaheshwari, **K. Vijayalakshmi,** Thandapani Gomathi and P. N. Sudha (2014). Synthesis and characterisation of chitosan/sodium alginate/carboxymethyl cellulose beads, Der Pharmacia Lettre, 6 (6):389-395
- D. Saravanan, **K. Vijayalakshmi**, T. Gomathi and P. N. Sudha, (2014). Physicochemical characterization of nylon fiber reinforced chitosan composites. Der Pharmacia Lettre, 6 (1), 139-145.

- **K. Vijayalakshmi,** T. Gomathi and P. N. Sudha, (2014). Preparation and characterization of nanochitosan/sodium alginate/ microcrystalline cellulose beads. Der Pharmacia Lettre, 6 (4) 65-77.
- T. Hajeeth, P. N. Sudha, **K. Vijayalakshmi**, and T. Gomathi (2014). Sorption studies on Cr (VI) removal from aqueous solution using cellulose grafted with acrylonitrile monomer. International journal of biological macromolecules, 66, 295-301.
- Hajeeth, T., **Vijayalakshmi, K.,** Gomathi, T., Sudha, P.N., Anbalagan, S. Adsorption of copper(II) and nickel(II) ions from aqueous solution using graft copolymer of cellulose extracted from the sisal fiber with acrylic acid monomer (2014) Composite Interfaces, 21 (1), pp. 75-86.
- Shankar, P., Gomathi, T., **Vijayalakshmi, K.,** Sudha, P.N. Comparative studies on the removal of heavy metals ions onto cross linked chitosan-g-acrylonitrile copolymer (2014) International Journal of Biological Macromolecules, 67, pp. 180-188.
- P. Shankar, T. Gomathi, **K. Vijayalakshmi**, and P. N. Sudha, (2014). Adsorption of chromium (VI) from aqueous solution using crosslinked chitosan graft polyacrylonitrile copolymer. Indian Journal of Applied Research, 4, 5.
- T. Hajeeth, T. Gomathi, **K. Vijayalakshmi**, and P. N. Sudha, (2014). Synthesis and characterization of graft copolymerized Acrylonitrile onto Cellulose prepared from Sisal fibre. Macromolecules, 10, 1, 7-14.

**2013**

- Hajeeth, T., **Vijayalakshmi, K.,** Gomathi, T., Sudha, P.N. Removal of Cu(II) and Ni(II) using cellulose extracted from sisal fiber and cellulose-g-acrylic acid copolymer (2013) International Journal of Biological Macromolecules, 62, pp. 59-65.
- T. Hajeeth, **K. Vijayalakshmi**, T. Gomathi and P. N. Sudha. (2013). Adsorption of nickel (II) ions from aqueous solution using cellulose extracted from the sisal fiber. Proceedings of the National conference on New Vistas and Challenges in Chemistry, Sathyabama University in association with Department of Science and Technology (SERB). ISBN: 978-81-922119-7-8.
- Nasreen, K., **Vijayalakshmi, K.,** Gomathi, T., Anbalagan, S., Sudha, P.N. Synthesis, characterization and study on the water absorption capacity of binary blends of chitosan (2013) Der Pharmacia Lettre, 5 (5), pp. 145-150.
- Hajeeth, T., **Vijayalakshmi, K.,** Gomathi, T., Sudha, P.N. Removal of Cu(II) and Ni(II) using cellulose extracted from sisal fiber and cellulose-g-acrylic acid copolymer (2013) International Journal of Biological Macromolecules, 62, pp. 59-65.
- T. Hajeeth, **K. Vijayalakshmi**, T. Gomathi, and P. N. Sudha, (2013). Synthesis and characterization of graft copolymerized acrylic acid onto Cellulose prepared from Sisal fibre. Macromolecules, 9(1), 28-43.

**2012**

- Mubashirunnisa, **Vijayalakshmi.K**, Gomathi.T, Sudha P.N, (2012). Development of banana/glass short hybrid fiber reinforced nanochitosan polymer composities, *Der Pharmacia Lettre*, 2012, 4 (4):1162-1168. [Indexed in scopus]

- Shankar P, **Vijayalakshmi K,** Gomathi T, Sudha PN (2012). Comparative Study on Removal of Chromium and Nickel Using Cross linked Chitosan Graft Polyacrylonitrile Copolymer, *International Journal of Chemical and Analytical Science*, 3(5), 1408-1412
- Shankar.P, Gomathi T, **Vijayalakshmi.K,** Sudha P.N (2012). Adsorption Studies of Cu (II) and Cr (VI) from metal solution using crosslinked chitosan-g-acrylonitrile copolymer, *Indian Journal of Applied Research*, Volume : 1, Issue : 9, 11-13.

**2011**

- Prakash,N., **K.Vijayalakshmi** and Sudha, P.N.(2011).Enhancement in the thermal stability of chitosan/nylon6 polymer blends by cross linking, International Journal of Chemistry Research ISSN- 0976-5689 Vol 2, Issue 3, 2011
- Lakshmi.P, **Vijayalakshmi. K** and Sudha P. N. (2011) Synthesis and characterization of graft copolymers of nylon 6 with maleic anhydride and methylmethacrylate, Archives of Applied Science Research, 2011, 3 (6):351-363

**Papers published in Conference Proceedings**

**2017**

- Published a paper in the "National conference on Emerging trends and future challenges in chemical sciences Chemfest- 2017 on 11th October 2017 held at Shanmuga Arts and science college, Thiruvannamalai on the topic "Synthesis, Characterization And Applications of Chitosan-O-Vanillin Schiff Bases/Polypropylene Glycol Blend" (2017).*IOSR Journal Of Pharmacy, PP. 32-42, (e)-ISSN: 2250-3013, (p)-ISSN: 2319-4219*

- Published a paper in the "National conference on Emerging trends and future challenges in chemical sciences Chemfest- 2017 on 11th October 2017 held at Shanmuga Arts and science college, Thiruvannamalai on the topic "Synthesis and Antioxidant ability of Nanofiber mat prepared using Polyvinyl alcohol and Montmorillonite clay*"* (2017) *IOSR Journal Of Pharmacy, PP. 07-12 (e)-ISSN: 2250-3013, (p)-ISSN: 2319-4219.*

**2016**

- P. Shakila, K. R. Rekha, K. Vijayalakshmi & P. N. Sudha, Synthesis, characterization and optimisation of carboxymethyl chitosan graft gylcidyl methacrylate copolymer *International Journal of Applied and Advanced Scientific Research (IJAASR) Impact Factor: 5.255, ISSN (Online): 2456 - 3080 (www.dvpublication.com) Volume 1, Issue 2, 2016*
- B. Sheela, K. Kalaiarasi, K. Vijayalakshmi & P. N. Sudha, Optimization of grafting parameters of nylon6-graft-acrylic acid copolymer using ceric ammonium nitrate as an initiator, *International Journal of Applied and Advanced Scientific Research (IJAASR) Impact Factor: 5.255, ISSN (Online): 2456 - 3080 (www.dvpublication.com) Volume 1, Issue 2, 2016*

**2014**

- Published a paper in the "National seminar on Recent research trends in chemistry" on the topic "Kinetic studies on the removal of copper (II) ion from aqueous solution using Nanochitosan/Sodium alginate/ Microcrystalline cellulose film", RRTC- 2014, Sep 25th and 26th 2014, ISBN- 978-93-80624-98-3.

- Published a paper in the "National seminar on Recent research trends in chemistry" on the topic "Synthesis and characterization of binary bead of carboxymethyl cellulose", RRTC-2014, Sep 25th and 26th 2014, ISBN- 978-93-80624-98-3.

**2013**

- Published a paper in the "National conference on New vistas and challenges in chemistry" on the topic **"**Adsorption of nickel (II) ions from aqueous solution using cellulose extracted from the sisal fiber", NEVACC-2013, ISBN: 978-81-922119-7-8, pp-180-196.
- Published a paper in the "National conference on New vistas and challenges in chemistry" on the topic "Synthesis and characterization of Nanochitosan beads with microcrystalline cellulose from banana fiber", NEVACC-2013, ISBN-978-81-922119-7-8, pp-67-78.

**2012**

- Presented a paper on the topic "Applications of starch based biodegradable materials in food packaging applications " in the National level conference on "Frontiers in Spectroscopy" held at Govt Arts College, 2nd and 3rd April 2012.

**Book Chapters Published**

**2020**

- Sudha, P.N., **Vijayalakshmi, K.,** Hemapriya, D and Saranya. M., Recent advancements in the environmental applications of cellulosic nanocomposites, Stanford Publishers (In Press)
- Thandapani Gomathi, M Saranya, E Radha, **K Vijayalakshmi**, P Supriya Prasad, PN Sudha, Bioremediation: A Promising Xenobiotics Cleanup Technique, Encyclopedia of Marine Biotechnology, John Wiley & Sons, Ltd, 3139-3172
- PN Sudha, **K Vijayalakshmi**, D Hemapriya, M Saranya, Se-Kwon Kim, Microalgal Efficiency for Wastewater Treatment , Encyclopedia of Marine Biotechnology, John Wiley & Sons, Ltd, 459-495

**2018**

- Parappurath N Sudha, Kirubanandam Sangeetha, **Kumar Vijayalakshmi**, Ahmed Barhoum, Nanomaterials history, classification, unique properties, production and market**,** Emerging Applications of Nanoparticles and Architecture Nanostructures, Elseveir, 341-384
- Sudha Prasad, **Vijayalakshmi Kumar**, Sangeetha Kirubanandam, Ahmed Barhoum, Engineered nanomaterials: Nanofabrication and surface functionalization, Emerging Applications of Nanoparticles and Architecture Nanostructures,Current Prospects and Future Trends, Elseveir,305-340

**2017**

- Sudha, P.N., Aisverya, S., Gomathi, T., **Vijayalakshmi, K.,** Saranya, Sangeetha, K., Srinivasan Latha and Sabu Thomas, (2017) Application of Chitin/Chitosan and its Derivatives as Adsorbents, Coagulants, and Flocculants, Shakeel Ahmed and Saiqa Ikram (eds.) Chitosan, Scrivener Publishing LLC pp. 453–488
- Sudha, P.N., **Vijayalakshmi, K.,** Sangeetha, K., Ajitha, P., Aisverya, S., and Sashikala S., (2017)Chitin and Chitosan – The Defence Booster in Agricultural Field, CRC Publications

- Sangeetha, K., Supriya Prasad, P., **Vijayalakshmi, K.,** and Sudha, P.N. Influence of physicochemical properties on the potential applications of marine biopolymers, Industrial applications of marine carbohydrates, CRC Press, 2017, 25 pages
- **Vijayalakshmi, K.,** Srinivasan Latha, Maximas H. Rose, Sudha P.N., Industrial applications of marine carbohydrates, Industrial Applications of alginate Ed. P.N. Sudha, CRC Press, 545-575
- Sudha, P.N., Sangeetha, K., **Vijayalakshmi, K.,** Ahmed Barhoum, Nanoparticles and nanostructured materials: terminology, properties, current and future applications, Elseveir

**2014**

- P.N. Sudha, T. Gomathi, **K. Vijayalakshmi** and R. Nithya . Removal and recovery of heavy metals using natural polymeric materials. In Moayad N Khalaf, editor: Selected research in green polymers, Apple Academic Press.
- Prasad. N. Sudha, S. Aisverya, R.Nithya, **K.Vijayalakshmi**, Industrial Applications of Marine Carbohydrates, Volume-73, Marine carbohydrates, Fundamentals and applications Part-B, Advances in food and nutrition research published by Elsveir, Academic Press, 2014, pp. 145-181, ISBN: 978-0-12-800268-1.

4. Research Interests (Specialisations) :

Nanomaterials, Wastewater Treatment, Green synthesized metallic nanoparticles, dye pollutant and toxic metal ion removal, antimicrobial evaluation of coordination complexes, Nanocomposites, Blend , graft copolymers etc.,

**PG Projects**

**Title of the Projects**

- Antibacterial activities of schiff base [fuschin] functionalised copper and zinc nanoparticles synthesized through green method.
- Removal of methyl orange dye from aqueous soluiton using glutaraldehyde crosslinked sodium alginate-grfat-glycidyl methacrylate/ silica gel composite.
- Batch adsorption studies on the removal of lead (ii) from aqueous solution using ternary sodium alginate/watermelon rind/modified rice husk beads.
- Removal of s-alizarin red dye from aqueous soluiton using ternary chitosan/neem leaves/ egg shell beads.
- Synthesis, characterization, environmental and biomedical applications of ternary blends of egg shell and tamarind shell.
- Removal of fuschin dye from aqueous solution using chitosan/magnetic cellulose/sugarcane bagasse beads
- Synthesis, characterization and environmental applications of silica gel graft 2 hydroxy ethyl acrylate copolymer.
- Biomedical applications of silica gel graft 2 maleic anhydride copolymer.

- Synthesis, characterization and antimicrobial activities of schiff base functionalised metal nanoparticles
- Electrochromic behaviour of MoO3 thin film and the role of oxygen in electrochromic properties of oxide materials.

**M.Phil Projects**

**Title of the Projects**

- Preparation and characterization of graft copolymer of Nylon 6 with Methyl methacrylate and acrylic acids.
- Synthesis and characterization of binary graft copolymer of Nylon6
- Synthesis and characterisation of binary and ternary blends of starch
- Absorption studies of chromium (VI) from metal solution using carboxy metyl chitosan graft glycidyl methacrylate copolymer
- Evaluation of copper (II) ion removal from aqueous solution using sodium alginate graft n- Butyl acrylate copolymers
- Batch absorption studies of Lead (II) onto chitosan/ Sodium alginate/ carboxy methyl cellulose beads.
- Synthesis and characterisation of chitosan/ cellulose acetate/ polyvinyl alcohol membranes
- Synthesis and characterisation of hydrid fiber reinforced chitosan composites
- Synthesis and characterization of graft copolymer of carboxymethyl cellulose with acrylic acid and methyl methacrylate
- Removal of cadmium(II ) from aqueous solution using crosslinked chitosan/polyvinyl alcohol/ sodium alginate beads
- Batch adsorption studies of lead (II) from aqueous solution onto nanochitosan / sodium alginate / carboxymethyl cellulose beads
- Synthesis and Characterisation of glutaraldehyde crosslinked chitosan oligosaccharide-graft-2 hydroxyl ethyl acrylate/sodium alginate beads for environmental applications.
- Biomedical applications of chitosan Schiff bases/polypropylene glycol blend
- Batch equilibrium and kinetic studies for the adsorption of lead (ii) removal from aqueous solution using nanochitosan/sodium alginate/ modifies rice husk beads

5. Courses taught (UG & PG for the past 5 years) :

   Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Coordination Chemistry, Material Science, Thermodynamics and Chemical Kinetics, Analytical Techniques in Chemistry, Medicinal Chemistry, Scientific Research Methodology, Bioinorganic Chemistry, Polymer Chemistry, Electrochemistry and Spectroscopy, Allied Chemistry

6. Awards :

- University First rank in B.Sc. Chemistry from University of Madras, Chennai (2004) – Certificate.
- University First rank in M.Sc. Chemistry from Thiruvalluvar University, Vellore (2006) – Certificate.
- Tmt. Hamsavani Endowment prize from Muthurangam Govt Arts College, Vellore (2006)
- Thiru. Kuppuswamy Endowment prize from Muthurangam Govt. Arts College, Vellore (2006)
- Awarded – Principal Miss Mathew medal from University of Madras for securing the first University rank in B.Sc.
- Awarded – Shri. K.R. Sundarajan memorial medal from university of Madras for B.Sc.
- Awarded – C.K. Sundaram Ayyar Prize from University of Madras (B.Sc)
- Awarded- R.Pattabirami Reddi Medal From University of Madras(B.Sc)
- Awarded First Place for Proficiency in Maths , Chemistry , Physics , Tamil from D.K.M College for Women, Vellore
- Awarded – I – prize for best oral presentation – in UGC sponsored National seminar on Recent research trends in chemistry – conducted by C.A.H.college, Melvisharam on 25th & 26thSeptember 2014
- Awarded – II – prize for best oral presentation in National Conference on "Bioprospecting-Discovery of Natural bioactive molecules" on 9th& 10th October 2014
- Awarded –I – prize for best poster presentation in National Conference on New trends in biomedical and pharmaceutical application of marine natural products on 10th and 11th August, 2016 held at Satyabama University, Chennai.
- Awarded - Best oral presentation in the International conference on Current trends and emerging challenges in biological Sciences conduced by the Department of life Sciences, D.K.M College for Women, Vellore-1 on 15th and 16th February, 2018.

7. Presentations

**Papers/posters presented:24**

- Presented a paper on the topic "Studies on adsorption and desorption behaviour of copper(II) from aqueous solution onto ternary blend of nanochitosan" in the International Conference on current emerging trends and challenges in biological sciences conducted by Dept of Life Sciences, D.K.M College for Women, Vellore-1 on 15th and 16th February, 2018
- Presented a paper on the topic "Analysis of packed bed adsorption column with nanochitosan /sodium alginate/ microcrystalline cellulose bead for copper (ii) removal from aqueous solution in National Conference on Emerging trends and future challenges in chemical

sciences Chemfest- 2017 on 11th October 2017 held at Shanmuga Arts and science college, Thiruvannamalai

- Presented a poster on the topic Antibacterial activities of methyl benzaldehyde schiff base (Fuschin) Functionalised zinc nanoparticles" in II National conference on Emerging trends in chemistry and materials (ECTM-2016) on 10th-11th August, 2017 held at Thiruvalluvar University, Serkadu.
- Presented a poster on the topic "industrial pollution" in one day state level seminar on Challenges in green and environmental chemistry on 15th February 2017 held at C. Abdul Hakeem College, Melvisharam
- Presented a paper on the topic "Removal of Cr (VI) from aqueous solution using carboxymethyl chitosan- graft-glycidyl methacrylate copolymer – kinetic studies" in III National conference on Recent trends in Chemical and biological sciences' held on 2nd March 2017 at D.K.M College for Women.
- Presented a paper on the topic "Utilization of glutaraldehyde crosslinked sodium alginate-graft-glycidyl methacrylate/silica gel composite for methyl orange dye removal" in III National conference on Recent trends in Chemical and biological sciences' held on 2nd March 2017 at D.K.M College for Women
- Presented a paper on the topic "Removal of s-alizarin red dye from aqueous solution using chitosan/neem /egg shell beads" in III National conference on Recent trends in Chemical and biological sciences' held on 2nd March 2017 at D.K.M College for Women
- Presented a paper on the topic "antibacterial activities of schiff base [new fuchsin] functionalised copper nanoparticles" in III National conference on Recent trends in Chemical and biological sciences' held on 2nd March 2017 at D.K.M College for Women
- Presented a poster on the topic "Batch and fixed bed column adsorption studies on the removal of lead (II) from aqueous solution using nanochitosan/sodium alginate/microcrystalline cellulose film" in three day international conference on Advanced polymers for science and technology on 24-26th October 2016 held at VIT University, Vellore.
- Presented a paper on the topic "Optimization of grafting parameters of nylon6-graft-acrylic acid copolymer using ceric ammonium nitrate as an initiator" in "IQAC assisted National seminar on recent trends in chemical sciences" on 7th October 2016 held at Arignar Anna Government Arts College, Cheyyar.
- Presented a paper on the topic "Synthesis, characterization and optimisation of carboxymethyl chitosan graft gylcidyl methacrylate copolymer" in "IQAC assisted National seminar on recent trends in chemical sciences" on 7th October 2016 held at Arignar Anna Government Arts College, Cheyyar.
- Presented a poster on the topic "Comparative studies on the antibacterial activity of nanochitosan /sodium alginate/ microcrystalline cellulose bead with film" in the National Conference on New trends in biomedical and pharmaceutical application of marine natural products on 10th and 11th August, 2016 held at Satyabama University, Chennai.
- Presented a paper on the topic " Removal of copper(II) from aqueous solution using nanochitosan/sodium alginatr/microcrystalline cellulose bead by fixed bed column adsorption

studies" in International conference on Recent advances in technology engineering and science (ICRATES-2016) on 27th and 28th July 2016 held at C.Abdul Hakeem College of Engineering and Technology, Melvisharam.

- Presented a paper on the topic " Batch and fixed bed column adsorption studies for the removal of copper(II) from aqueous solution using nanochitosan/sodium alginatr/microcrystalline cellulose film" in One day Seminar on Environment and sustainable development on 3rd June 2016 held at S.R.M University, Kataankulathoor, Chennai.
- Presented a paper on the topic "Fixed bed adsorption column studies for the removal of lead (ii) from aqueous solution using nanochitosan /sodium alginate/ microcrystalline cellulose film" in One day National conference on Recent trends in chemical sciences on 5th February 2016 held at Muthurangam Govt Arts college, Vellore.
- Presented a paper on the topic "Kinetic evaluation on the removal of lead (II) from aqueous solution using Nanochitosan / Sodium alginate / Microcrystalline cellulose film" in National Conference on "Recent Advances in Nanosciences (RANSS-14)" on 21st & 22nd November 2014 held at Auxilium College, Vellore.
- Presented a paper on the topic "Isolation and characterization of microcrystalline cellulose from steam exploded lignocellulosic biomass" in National Conference on "Bioprospecting-Discovery of Natural bioactive molecules" on 9th & 10th October 2014 held at D.K.M College for Women, Vellore-1.
- Presented a paper on the topic "Kinetic studies on the removal of copper (II) ion from aqueous solution using Nanochitosan/Sodium alginate/ Microcrystalline cellulose film", in UGC sponsored National seminar on Recent research trends in chemistry RRTC- 2014 on Sep 25th and 26th 2014, held at C. Abdul Hakeem College, Melvisharam-632 509ISBN- 978-93-80624-98-3.
- Presented a poster on the topic "Removal of copper (ii) from aqueous solution by adsorption onto Nanochitosan /sodium alginate beads with microcrystalline cellulose obtained from banana fibre" in the International conference on Nano materials Science Technology and Applications on 5th -7th Dec .2013 , ICNM-2013, held at B.S Abdur Rehman University, Vandaloor, Chennai, Tamilnadu.
- Presented a poster on the topic "Synthesis and Characterization of nanochitosan/sodium alginate/extracted cellulose beads" in the Chennai chemistry conference on 8-10th February 2013 held at CSIR-Central Leather Research Institute(CLRI), Chennai.
- Presented a paper on the topic "Applications of starch based biodegradable materials in food packaging applications " in the National level conference on "Frontiers in Spectroscopy" held at Govt Arts College, 2nd and 3rd April 2012.
- Presented a poster on the topic "Synthesis and characterization of graft copolymerized acrylic acid onto the cellulose obtained from the sisal fiber" in the international conference on the recent trends in advanced materials on 22 nd Feb.2012 ,ICRAM-2012, held at VIT university,Vellore-14,Tamilnadu.
- Presented a paper on the topic "Enhancement in thermal stability of polymer blends by cross linking" in the National seminar on "Recent Advancements in polymer chemistry and

nanotechnology", conducted by Department of chemistry, held at D.K.M College for Women, Vellore on 12th and 13th September 2008.

- Presented a paper on the topic topic "Renewable energy- Wind Energy" in the National level conference on "Energy and Environment", Department of chemistry, held at D.K.M College for Women, Vellore on 17th February 2007.

**8. Administrative Positions :**

Serving as an IQAC Department Nodal Officer, MCC-IIC Department Nodal Officer, Examination Nodal Officer