

Curriculum Vitae



Name : **Dr.Vihalakshi B.**
Educational Qualification : M.Sc., Ph.D.
Designation : Senior Professor
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Mangalore University
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Research Fields : Polyelectrolytes, Stimuli Responsive Hydrogels, Chemical Modification of Polysaccharides, Polyelectrolyte Complexes, Hybrid Polymer Nanocomposites, Development of Polymeric materials for biomedical, agricultural, wastewater treatment, food packaging and paper coating applications.

Professional Teaching Experience : 30 years

Awards and Recognitions :

1. **Dr. Kalpana Chawla Young Women Scientist State Award-2013** from Government of Karnataka
2. **Prof. Kaza Somasekhara Rao Award -2018** as 'Best Women Scientist in Chemistry' from the Indian Council of Chemists
3. **Lifetime Achievement Award** from Mangalore University-September 2021
4. **Adhyapak Bhooshan Award** by Karnataka Rajya Mahavidyalaya Shikshak Sangh, Mangalore University Vibhag under the category –Best Researcher - September 2024.

Life Membership : 1. Indian Council of Chemists, Agra
2. Society of Polymer Science, Dharwad Chapter, Karnataka
3. Society of Biomaterials and Artificial Organs, India.

Research Guidance:**Ph.Ds. Successfully Guided: 17+01 (Submitted Thesis)**

Sl.No.	Name	Title	Year of Award	Position held (Currently working)
1	Dr. Mohan T P 	Synthetic studies, spectral characterization and biological activities of some substituted heterocycles containing 4-fluoro-3-phenoxyphenyl moiety	2005	Associate Vice-President and Head of Chemistry Services, Bionees Pvt Ltd, Bangalore
2	Dr. Mohanan A. 	Synthesis, characterization and applications of polymeric hydrogels	2009	Associate Professor, Department of Chemistry Nehru Arts and Science College Kanhangad, Padnekat, Kerala
3	Dr. Nandini R. 	A Study of the effect of structural parameters on polymer-dye interactions	2011	Former Principal, Minerva PU College, Mangalore
4	Dr. Jagadish N. Hiremath	Synthesis, characterization and applications of polymeric hydrogels	2015	Co-Ordinator, S. Nijalingappa Sugar Institute, Belagavi

				
5	Dr. Karthika J.S. 	Synthesis, characterization and applications of gellangum based polymers	2016	Head & Assistant Professor Department of PG Studies in Chemistry, Govinda Dasa College, Surathkal.
6	Dr.P.D. Chethan 	Studies on chemical modifications of chitosan	2018	Assistant Professor, Vivekananda College of Engineering and Technology, Puttur
7	Dr.Mithun U. 	Studies on some polyelectrolyte complexes derived from modified polysaccharides	2018	Dean-Academics, Karkala Jnanasudha Pre-University College, Ganit nagar, Karkala

8	Dr.Arun Krishna Kodoth 	Synthesis, characterization and applications of copolymer based composite hydrogels	2019	Head R&D Maysadan Projects, Pvt.Ltd., Neeleswaram, Kalady, Ernakulam, Kerala
9.	Dr.Gangadhar Babaladimath 	Studies on polysaccharides modified by graft copolymerization	2019	Assistant Professor KLE Society's, Raja Lakhamagouda Science Institute, Belgaum, Karnataka
10	Dr.AnushS.M. 	Preparation, characterization and applications of chemically modified chitosan	2019	Assistant Professor Department of Chemistry, Adichunchanagiri School of Natural Sciences, Adichunchanagiri University.
11	Dr.Sirajo A.Zauro 	Preparation, characterization and applications of polysaccharide based amphoteric composite hydrogels	2019	Assistant Lecturer Department of Energy and Applied Chemistry, Usmanu Danfodiyo University, Sokoto, Nigeria
12	Dr. Preetha B.K.	Synthesis, characterization and applications of polysaccharide based graft copolymers and	2021	Scientific Writer, Journal of Visualized Experiments (JOVE) Bangalore

		hydrogels		
13	Dr. Prajwal. K 	Studies on hybrid polymer hydrogel nanocomposites preparation characterization and applications	2022	HOD, Department of Chemistry Karkala Jnanasudha Pre-University College, Ganit nagar Karkala
14	Dr. Shruthi S. 	Hybrid polymer nanocomposites: Synthesis, characterization and applications.	2024	Guest Faculty, Department of Chemistry, Mangalore University, Mangalagangothri .
15	Dr. Ganesh G. 	Chalcones and hydrazones containing 'N' and 'S' heterocycles: Synthesis, characterization and biological activity studies	2025	Sujnan Pre-University College, Kundapura

16	Dr.Amos Cosmas Luanda 	Development of polysaccharide-based nanocomposite hydrogels as drug delivery systems for anticancer drugs	2026	Assistant Lecturer, Department of Chemistry, College of Natural and Mathematical Sciences, Iniversity of Dodoma, Tanzania
17	Dr. Deeksha K.J. 	Studies on preparation, characterization and applications of chitosan based materials for wastewater treatment	2026	
18	Ms. Rakshitha A. 	Studies on polyelectrolyte complexes of modified polysaccharides as drug delivery systems	Submitted in 2025	

Presently Working: 04

Mr. Santosha M. 	Mr. Ravikanth Gogineni 
Mrs. Suparna 	Mr. Rakshith Nayak 

Research Projects:

1. Research Grant of Rs. 10.03 L received for proposal entitled, 'Radiation synthesis of hydrogels for development of intelligent Biomaterials', from BRNS-DAE during 2005-2008.
2. Worked as a core research team member for the project entitled, 'Electron beam irradiation effects on polyscale functional materials using microtron facility'-Rs.2 Crores-sanctioned in 2016 to Mangalore University from UGC under CPEPA grant.
3. Research Grant of Rs.0.07L received for a Student Project entitled, "Development of Smart Composite Coated Paper using Agricultural Waste as Substitute for Petroleum Derived Mulches" by KSCST, Govt. of Karnataka in March 2025.

Professional Research Collaborations:

1. Centre for Applications of Radioisotopes and Radiation Technology (CARRT), Mangalore University, Mangalagangothri, Karnataka.
2. Department of Biological Sciences, PoornaPrajna Institute of Scientific Research, Devanahalli, Bangalore.
3. Department of Chemistry, Karnatak University, Dharwad.
4. Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences, Manipal University, Manipal, Karnataka

5. Department of Pharmaceutics, NGSM Institute of Pharmaceutical Sciences, Mangalore, Karnataka.
6. Department of Physics, Mangalore University, Mangalagangothri, Karnataka.
7. Microtron Centre, Department of Studies in Physics, Mangalore University, Mangalagangothri, Karnataka.
8. Soniya Education Trust's College of Pharmacy, S.R.Nagar, Dharwad, Karnataka.
9. ACU Centre for Research and Innovations, Adichunchanagiri School of Natural sciences, Mandya, Karnataka.
10. Department of Microbiology, Adichunchanagiri School of Natural sciences, Mandya, Karnataka.
11. Department of Chemistry, College of Natural and Mathematical Sciences, University of Dodoma, Tanzania

Foreign Visits:

Visited Dubai and Indonesia to present papers at international conferences.

Impact of Publication :

Citation Index	3052
h-index	34
i10-index	66

Research Publications:

Book chapters

1. R.Nandini, B.Vishalakshi (2019), A comparative study of effect of dye structure on polyelectrolyte induced metachromasy: Polymeric and nanostructured materials: Synthesis, properties and advanced applications, Aparna Thankappan, Nandakumar Kalarikkal, Sabu Thomas and Aneesa Padinjakkara (Eds.) pages 55-70, AAP, Inc(2019).
2. Polysaccharide hydrogels in microneedle arrays: Promise for the future? Vivek Ghate, Pinal Chaudhari Shaila Lewis, Vishalakshi B AAPS News Magazine, 22 (6) 14-18 June 2019, ISSN2155-7985
3. Prajwal Kulal and Vishalakshi Badalamoole, Chapter 13: Polysaccharide based nanocomposite hydrogels as adsorbent materials for remediation of mercuric ions from wastewater, In: Nanocomposite hydrogels and their emerging applications, Mohammed Sirousazar (Ed), Polymer Science and Technology, Nova Science Publishers Inc., New York, ISBN:979-8-88697-675-5(2023)

Patents:

A Wrappable Non-Invasive Freshness Indicator, Vishalakshi B. and Santhosha, Indian Patent Application No.202441065324 A, Filed: 29-08-2024, Published: Official Journal of the Patent Office, 38/2024 dated 20/09/2024
Applicant: Mangalore University, Mangalagangothri

Publications in Journals (International and National)

1. Polyaniline in the conducting state in neutral medium, S. Ghosh, B. Vishalakshi and V. Kalpagam, *Synthetic Metals*, 46, 349 (1992).
2. The effect of charge density and concentration on the composition of polyelectrolyte complexes, B. Vishalakshi, S. Ghosh and V. Kalpagam, *Polymer*, 34, 3270 (1993).
3. The effect of charge density and structure of the polymer on the dye binding characteristics of some cationic polyelectrolytes, B. Vishalakshi, *J. Polym. Sci., Part A, Polym. Chem.*, 33, 365 (1995).
4. Polysaccharide matrix forms for slow release of drugs, A preliminary study with Nimesulide, D. Cherian, C. G. Geetha Rao and B. Vishalakshi, *Trends in Biomaterials and Artificial Organs, India*, 17(1), 47 (2003).
5. Nonstoichiometric polyelectrolyte complex of carboxymethylcellulose and quaternised poly(2-vinylpyridine), B. Vishalakshi and S. Ghosh, *J. Polym. Sci., Part A, Polym. Chem.*, 41, 2288 (2003).
6. Synthesis and insecticidal activity of some 1,3,4-oxadiazole derivatives containing phenoxy fluorophenyl group, T. P. Mohan, B. Vishalakshi, K. S. Bhat, K. S. Rao and G. N. Kendappa, *Indian Journal of Chemistry*, 43B, 1798 (2004).
7. 2,6-Bis(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid-Structure Reports, Deepak Chopra, T. P. Mohan, B. Vishalakshi and T. N. Guru Rao, *Acta Crystallographica Section E* 61, 03281 (2005).
8. 6-(4-Chlorophenyl)-4-(4-fluoro-3-phenoxyphenyl)-2-oxo-1,2,3,4-tetrahydropyridine-3-carbonitrile, T. P. Mohan, B. Vishalakshi, Deepak Chopra, *Acta Crystallographica Section E* 62 (7), o2660–o2662 (2006).
9. 1-Acetyl-3-(4-chlorophenyl)-5-(4-fluoro-3-phenoxyphenyl)-1H-pyrazole, T. P. Mohan, Deepak Chopra, B. Vishalakshi, *Acta Crystallographica Section E* 62(7), o2770–o2772 (2006).
10. 5-(4-Fluoro-3-phenoxyphenyl)-3-phenyl-4,5-dihydroisoxazole, Chopra, Deepak and Mohan, T. P. and Vishalakshi B., *Acta Crystallographica Section E: Structure Reports Online*, 62(9):3819–3820 (2006).

11. 4-(4-fluoro-3-phenoxyphenyl)-6-(4-fluorophenyl)-2-oxo-1,2-dihydropyridine3-carbonitrile and the 6-(4-methylphenyl)- analogue, Deepak Chopra, T PMohan, B Vishalakshi, Tayur N Guru Row, Acta crystallographica, SectionC, Crystal structure communications 62(Pt 9):540-3, (2006).
12. A series of substituted (2E)-3-(2-fluoro-4-phenoxyphenyl)-1-phenylprop-2-en1-ones, Deepak Chopra, TP Mohan, B Vishalakshi, T N Guru Row, Actacrystallographica, Section C,Crystal structure communications,63(Pt 12):704-10 (2007).
13. Four substituted pyrazolines, Deepak Chopra, TP Mohan, B Vishalakshi, T NGuru Row, Acta crystallographica,Section C, Crystal structure communications63(Pt 12):o746-50 (2007).
14. Sustained release of Metoprolol Tartrate from radiation grafted pH responsivehydrogels, A.Mohanan, B. Vishalakshi., R. Narayan Charulu, N.M.Harish& S.Ganesh, International Journal of Polymeric Materials, 58, 32-48 (2009).
15. Swelling and diffusion characteristics of interpenetrating network filmscomposed of sodium alginate and gelatin: Transport of AzureB, A. Mohanan& B. Vishalakshi, International Journal of Polymeric Materials, 58, 561-580,(2009).
16. A comparative study of polymer-dye interaction, Nandini R and Vishalashi B.,Orbital Electronic Journal of Chemistry, 1(2), 215-227 (2009).
17. Spectroscopic study of interaction of cationic dyes with heparin R. Nandini andB. Vishalakshi, Orbital, The Electronic Journal of Chemistry 1(4), 255-272,(2009).
18. A comparative study of polyelectrolyte–dye interactions R. Nandinia, B.Vishalakshi, Spectrochimica Acta, Part A, 74, 1025–1030 (2009).
19. A study of interaction of cationic dyes with anionic polyelectrolytes, R. Nandiniand B. Vishalakshi, SpectrochimicaActa, Part A, 75 14–20 (2010).

20. Polyelectrolyte-dye interactions: Study of interaction between Sodium carboxymethylcellulose and Acrydine orange, R. Nandini and B. Vishalakshi, J. Indian Chem. Soc., 87, 6-11, 2010.
21. Swelling and diffusion characteristics of stimuli responsive Nisopropylacrylamide and kappa carrageenan semi IPN hydrogels, A. Mohanan, B. Vishalakshi & S. Ganesh, International Journal of Polymeric Materials, 60, 787-798 (2011).
22. Swelling and metal ion absorption characteristics of radiation synthesized stimuli responsive PAAm-KC semi-IPN hydrogels, A. Mohanan, B. Vishalakshi & S. Ganesh, Separation Science and Technology, 46, 1-8 (2011).
23. A comparative study of Polymer-Dye interaction: Interaction between Methyl Orange and Polycations, Nandini R. And Vishalakshi B., J. Ind. Council Chem., 28(2), 76-80 (2011).
24. Spectrophotometric Study of Interaction between Sodium Carrageenate and Cationic Dyes R. Nandini and B. Vishalakshi E-Journal of Chemistry, 8, S253-S265 (2011).
25. A Study of Interaction of Methyl Orange with Some Polycations, Nandini R. And B. Vishalakshi, E-Journal of Chemistry, 9(1), 1-14 (2012).
26. Effect of crosslinking on swelling behaviour of IPN hydrogels on Guar gum and Polyacrylamide, Jagadish N. Hiremath & Vishalakshi B., Der Pharma Chemica, 4(3), 946-955 (2012).
27. Sustained Release of Atorvastatin from radiation synthesized stimuli responsive hydrogels, A. Mohanan, B. Vishalakshi., R. N. Charyulu, N.M. Harish and S. Ganesh, International Journal of Polymeric Materials, 62, 5-9, 2013.
28. Preparation of substituted quaternized aryl furan chitosan derivatives and their antimicrobial activity, P.D. Chethan, B. Vishalakshi, L. Sathish, K. Ananda and Boja Poojary, International Journal of Biological Macromolecules, 59, 158-164 (2013).
29. Synthesis, swelling behavior, salt and pH-sensitivity of crosslinked gellan-gum graft poly(acrylamide-itaconic acid) hydrogels Karthika J.S. and Vishalakshi B., Der Pharma Chemica, 5(2), 185-192 (2013).

30. Swelling studies of pH and salt responsive ethylene glycol dimethacrylate crosslinked gellan gum and sodium alginate gels, Jagadish N. Hiremath and Vishalakshi B., International Journal of PharmTech Research 5 (2) 657-669 (2013).
31. Synthesis of ethylenediamine modified chitosan and evaluation for removal of divalent metal ions P.D. Chethan, B. Vishalaksh, Carbohydrate Polymers, 97530– 536 (2013).
32. Design and in vitro evaluation of pentoxifylline-polyelectrolyte complex tablets GP Teresa, NR Charyulu, NM Harish, B Vishalakshi Journal of Drug Delivery and Therapeutics 3 (5)(2013)
33. Microwave assisted synthesis and characterization of poly(itaconic acid) grafted gellan gum J.S.Karthika , B.Vishalakshi International Journal of Polymer Analysis and Characterization 19 95-106 (2014).
34. Experimental and theoretical analysis of 1π intermolecular interactions in derivatives of 1, 2, 4-triazoles R Shukla, TP Mohan, B Vishalakshi, D Chopra, CrystEngComm, 16(9), 1702-1713 (2014).
35. pH responsive gels of Gellan Gum and Carboxymethylcellulose: Matrix for ketoprofen Delivery Karthika J.S. and Vishalakshi B., International Journal of ChemTech Research 6 (2), 1055-1069 (2014).
36. Microwave-assisted synthesis and characterization of poly (itaconic acid) grafted gellan gum JS Karthika, B Vishalakshi International Journal of Polymer Analysis and Characterization 19 (2), 95-106
37. Microspheres of guar gum-grafted- polyacrylamide modified by hydrolysis: Evaluation for controlled drug delivery Jagadish N. Hiremath and Vishalakshi B. International Journal of Chemical and Pharmaceutical Sciences, 5(3), 82-88(2014).
38. Microwave assisted synthesis and characterization of Poly(dimethylamino)ethyl methacrylate) grafted gellan J.S.Karthika, B.Vishalakshi, International Journal of Polymer Analysis and Characterization, 19, 709-720 , (2014).

39. Adsorption efficiency of Cr(VI) by ethylene-1,2-diamine-6-deoxychitosan Chethan P.D. and Vishalakshi B. Separation Science and Technology, 50 (8) 1158-1165 (2014).
40. Swelling Kinetics of a pH-sensitive polyelectrolyte complex of polyacrylamide-g-alginate and chitosan Mithun U and Vishalakshi B. International Journal of ChemTech Research, 6 (7), 3579-3588 (2014).
41. Computational Study of the Formation of Short Centrosymmetric N-H...S Supramolecular Synthons and Related Weak Interactions in Crystalline 1, 2, 4-Triazoles
42. D Dey, TP Mohan, B Vishalakshi, D Chopra Crystal growth & design 14 (11), 5881-5896
43. Analysis of intermolecular interactions in 3-(4-fluoro-3-phenoxyphenyl)-1-((4-methylpiperazin-1-yl) methyl)-1H-1, 2, 4-triazole-5-thiol P Panini, R Shukla, TP Mohan, B Vishalakshi, D Chopra Journal of Chemical Sciences 126 (5), 1337-1345
44. Evaluation of a pH-responsive guar gum-based hydrogel as adsorbent for cationic dyes: kinetic and modelling study, Jagadish N. Hiremath, Badalamoole Vishalakshi, Polymer Bulletin, 72(12), 3063-3081, (2015).
45. Novel stimuli - responsive gellan gum - graft - poly(DMAEMA) hydrogel as adsorbent for anionic dye J.S.Karthika, B.Vishalakshi, International Journal of Biological Macromolecules, 81, 648-655 (2015).
46. Effective removal of divalent metal ions: Synthesis and characterization of pH-sensitive guar gum-based hydrogels Jagadish N Hiremath and B.Vishalakshi, Desalination and Water Treatment; 57(9) 4018-4027 (2016).
47. Gellan gum-graft-polyaniline-An electrical conducting biopolymer, J.S.Karthika, B.Vishalakshi and Jagadish Naik, International Journal of Biological Macromolecules, 82, 61-67 (2016).
48. Preparation and characterization of polyelectrolyte complex N,N,N-trimethylchitosan/gellan gum: Evaluation for controlled release of

ketoprofen U. Mithun, B. Vishalakshi and J. S. Karthika, Iranian Polymer Journal, 25(7), 339-348 (2016).

49. Microwave assisted synthesis of Poly(Diallyldimethylammonium chloride) Grafted Locust Bean Gum: Swelling and Dye adsorption studies Sirajo A. Zauro and B. Vishalakshi Indian Journal of Advances in Chemical Science, S1, 88-91 (2016).
50. Gamma irradiation synthesis and in vitro drug release studies of ZnO/PVA hydrogel nanocomposites Swaroop Kumaraswamy, Gangadhar Babaladimath, Vishalakshi Badalamoole, Somashekarappa H. Mallaiah, Advanced Materials Letters, 8(1), 2-7 (2017).
51. Pectin based ZnO Nanocomposite Hydrogel: Evaluation as adsorbent for divalent metal ions from aqueous solutions, Arun Krishna K. and Vishalakshi B. Elixir Nanotechnology 107, 47326-47331 (2017).
52. Gellan gum-based novel composite hydrogel: Evaluation as adsorbent for cationic dyes, K. Arun Krishna and B. Vishalakshi, Journal of Applied Polymer Science, 134, 45527-45535 (2017).
53. Silver nanoparticles embedded gum-ghatti-graft-poly(N,N-dimethylacrylamide) biodegradable hydrogel: evaluation as matrix for controlled release of 2,4-dichlorophenoxyacetic acid. Gangadhar Babaladimath and Vishalakshi B., J. Polym. Res. 24, 155 (2017).
54. Amphoteric gellan gum-based terpolymer-montmorillonite composite: synthesis, swelling and dye adsorption studies, Sirajo Abubakar Zauro and B. Vishalakshi, International Journal of Industrial Chemistry, 8(3), 345-362 (2017).
55. Synthesis of locust bean gum-based terpolymer bentonite composite: evaluation for indigo carmine adsorption, Sirajo Abubakar Zauro and Vishalakshi Badalamoole International Journal of Advanced Chemistry 5(2), 61-69 (2017).
56. Quaternized chitosan quinoline derivative with potential antibacterial activity Anush S. M. and Vishalakshi B. Der Pharma Chemica 9, 24-29 (2017).
57. A comparative study of effect of dye structure on polyelectrolyte induced metachromasy, R. Nandini, B. Vishalakshi, Polymeric and nanostructured

materials: Synthesis, properties and advanced applications, pages 55, CRC press, 20/11/2018

58. Electrical conducting Xanthan Gum-graft-polyaniline as corrosion inhibitor for aluminum in hydrochloric acid environment", Gangadhar Babaladimath, Vishalakshi B. and Nandibewoor S. T. Materials Chemistry and Physics, 205, 171-179 (2018).
59. Pectin graft copolymer-montmorillonite composite: synthesis, swelling and divalent metal ion adsorption', Sirajo Abubakar Zauro and Badalamoole Vishalakshi, Separation Science and Technology, 53(14), 1-16 or 2170-2185 (2018).
60. Heterocyclic modification of chitosan for the adsorption of Cu (II) and Cr (VI) ions, S. M. Anush, B Vishalakshi, H.R. Chandan and B.R. Geetha, Separation Science and Technology, 53(13), 1979-1990 (2018)
61. Magnetic nanoparticles embedded in pectin-based hydrogel for the sustained release of diclofenac sodium, Gangadhar Babaladimath and Vishalakshi Badalamoole, Polymer International (2018), 67(8), 983-992
62. Application of pectin zinc oxide hybrid nanocomposite in the delivery of a hydrophilic drug and a study of its isotherm, kinetics and release mechanism, Arun K. Kodoth, Vivek M. Ghate, Shaila A. Lewis and Vishalakshi Badalamoole, International Journal of Biological Macromolecules, 115, 418-430 (2018)
63. Pectin-graft-poly(2-acrylamido-2-methyl-1-propane sulfonic acid) silver nanocomposite hydrogel beads: Evaluation as matrix material for sustained release formulations of ketoprofen and antibacterial assay", Gangadhar Babaladimath and Vishalakshi Badalamoole, Journal of Polymer Research (2018) 25(9)202 (12 pages)
64. Absorptive removal of Cu(II) and Pb(II) from aqueous solutions using Xanthan gum-g-poly [(N,N-dimethylacrylamide)-co-(2-acrylamido-2-methylpropanesulfonic acid)]-ZnO nanocomposite gel, Sirajo Abubakar Zauro and Badalamoole Vishalakshi, Separation Science and Technology, 53(1), (2018).
65. Silver nanoparticles embedded pectin-based hydrogel: novel adsorbent material for separation of cationic dyes, Gangadhar Babaladimath and Vishalakshi Badalamoole Polymer Bulletin.

66. Synthesis of pyrazole-based Schiff bases of chitosan: Evaluation of antimicrobial activity S.M. Anush, B. Vishalakshi, B. Kalluraya and N. Manju International Journal of Biological Macromolecules, 119, 446-452 (2018).
67. Karaya gum-graft-poly(2-(dimethylamino)ethyl methacrylate) gel: An efficient adsorbent for removal of ionic dyes from water, Preetha Bidarakatte Krishnappa, Vishalakshi Badalamoole, International Journal of Biological Macromolecules, 122, 997-1007 (2019).
68. Pectin-based silver nanocomposite film for transdermal delivery of Donepezil Arun K Kodoth, Vivek M Ghate, Shaila A Lewis, Bharathi Prakash, Vishalakshi Badalamoole, International Journal of Biological Macromolecules, 134, 269-279 (2019).
69. Pectin Based Graft Copolymer–ZnO Hybrid Nanocomposite for the Adsorptive Removal of Crystal Violet, Kodoth, A.K., Badalamoole, V. Journal of Polymers and the Environment, 27(9), 2040-2053 (2019).
70. Development of MART for the Rapid production of Nanostructured Lipid Carriers Loaded with All-Trans Retinoic acid for Dermal delivery, Vivek M Ghate, Arun K Kodoth, S. Raja, B Vishalakshi, Shaila A Lewis: AAPS PharmSci- Tech 20(4), 162 (2019).
71. Modified chitosan gel incorporated with magnetic nanoparticles for removal of Cu(II) and Cr(VI) from aqueous solution, S.M. Anush and B. Vishalakshi, International Journal of Biological Macromolecules 133, 1051-1062 (2019).
72. Synthesis and metal ion adsorption characteristics of graphene oxide incorporated chitosan Schiff base, S.M. Anush, H.R. Chandan, B. Vishalakshi, International Journal of Biological Macromolecules, 126, 908-916, (2019).
73. Colloidal nanostructured lipid carriers of pentoxifyllin produced by microwave irradiation ameliorates imiquimod-induced psoriasis in mice, Vivek M. Ghate, Arun K. Kodoth, Abhishek Shaw, Badalamoole Vishalakshi, Shaila A. Lewis, Colloids and Surfaces B: Biointerphases, 181, 389-399 (2019).
74. Non-Propellant Foams of Green Nano-Silver and Sulphadiazine: Development and In Vivo evaluation for burn wounds, Aleksandra Kurowska, Vivek Ghate, Arun Kodoth, Aarti shaw, Abhishek Shaw, Badalamoole

Vishalakshi, BharathiPrakash, Shaila A. Lewis, Pharmaceutical Research, 36(8), 122 (2019).

75. Silver nanoparticles embedded in pectin-based hydrogel for adsorptive removal of dyes and metal ions, Arun K. Kodoth and Vishalakshi B., Polymer Bulletin, 77, 541-564 (2019).
76. Novel heterocyclic chitosan-based Schiff base: evaluation as adsorbent for removal of methyl orange from aqueous solution, A.S. Manchaiah and V. Badalamoole, Water and Environment Journal, 34(3)(2020).
77. Modification of Karaya gum by graft copolymerization for effective removal of anionic dyes, B. K. Preetha and Vishalakshi Badalamoole, Separation Science and Technology, 54 (16), 2638-2652 (2019).
78. Silver nanocomposite hydrogel of Gum ghatti with potential antibacterial property, Gangadhar Babaladimath and Vishalakshi Badalamoole, Journal of Macromolecular Science, Part A, Pure and Applied Chemistry, 56, 952-959 (2019).
79. Efficient removal of dyes and heavy metal ions from waste water using Gum ghatti-graft-poly(4-acryloylmorpholine) hydrogel incorporated with magnetic nanoparticles, Prajwal Kulal, Vishalakshi Badalamoole, Journal of Environmental Chemical Engineering, 8, 104207 (2020).
80. Magnetic nanoparticle embedded Pectin-graft-poly(N-hydroxyethylacrylamide) hydrogel: Evaluation as adsorbent for dyes and heavy metal ions from wastewater, Prajwal Kulal and Vishalakshi Badalamoole, International Journal of Biological Macromolecules, 156, 1408-1417 (2020).
81. Microwave assisted synthesis of karaya gum-based montmorillonite nanocomposite: characterisation, swelling and dye adsorption studies', B. K. Preetha, B. Vishalakshi, Int. J. Biol. Macromol., 154, 739-750 (2020).
82. Karaya gum-graft-poly(N,N'-dimethylacrylamide) gel: A pH responsive potential adsorbent for sequestration of cationic dyes, B. K. Preetha, B. Vishalakshi, J. Environ. Chem. Eng., 8, 103608-103619 (2020).
83. Graphene oxide functionalized chitosan magnetite nanocomposite for removal of Cu(II) and Cr(VI) from waste water, SM Anush, HR Chandan, BH Gayathri, Asma, N Manju, B Vishalakshi, B Kalluraya, International Journal of Biological Macromolecules, 164, 4391-4402 (2020).

84. Hybrid nanocomposite of kappa-carrageenan and magnetite as adsorbent material for water purification, Prajwal Kulal, Vishalakshi Badalamoole, *International Journal of Biological Macromolecules*, 165, 542-553(2020).
85. Evaluation of gum ghatti-g-poly (itaconic acid) magnetite nanocomposite as an adsorbent material for water purification, Kulal, Prajwal, and Vishalakshi Badalamoole, *International journal of biological macromolecules*, 193,2232-2242 (2021).
86. Development of gum acacia based magnetic nanocomposite adsorbent for wastewater treatment, Kulal Prajwal, Preetha B. Krishnappa, and Vishalakshi Badalamoole, *Polymer Bulletin* 11, 9457-9484 (2022).
87. Past, present and future of biomedical applications of dextran-based hydrogels: A review, Luanda, Amos, and Vishalakshi Badalamoole, *International Journal of Biological Macromolecules*, 228, 794-807 (2022).
88. Effective removal of ionic dyes from aqueous media using modified karaya gum–PVA semi-interpenetrating network system, P. B. Krishnappa, A. K. Kodoth, P. Kulal, and V. Badalamoole, *Polymer Bulletin*, 80, 2553–2584 (2022).
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22. Dielectric properties of gellan gum-graft polyaniline copolymer” Karthika J.S., Vishalakshi B., National Conference on ‘Current Trends in Scientific Research for Engineering Applications”(NCSEA-2014) at Department of Science, St.Joseph Engineering College, Vamanjoor, Mangalore-575 028, during 17-18 July 2014.

23. Synthesis, characterization and Swelling Behaviour of Novel P-PAMPS-PAAm/ZnO Nanocomposite Hydrogel, Arun Krishna K. and Vishalakshi B., National Seminar and Workshop on Functional Nanomaterials for Energy, Environment and Health (FuNEH2016), organized by- DST-PURSE Scheme Mangalore University, Mangalagangothri, 21st -22nd March (2016).[Received the Best Paper Presentation (Poster) award].
24. Synthesis, characterization Gum Gatti Grafted Hydrogel Loaded with Silver Nanoparticles, Gangadhar B. and Vishalakshi B., National Seminar and Workshop on Functional Nanomaterials for Energy, Environment and Health (FuNEH2016), DST-PURSE Scheme, Mangalore University, Mangalagangothri, March 21-22, 2016.
25. Synthesis, characterization of Chitosan Based Schiff Base for the removal of anionic Dye from aqueous Solution, Anush S. M. and Vishalakshi B., UGC Sponsored National Seminar on Emerging Trends in Analytical Techniques, Department of studies in chemistry,, Government Science College (Autonomous), Hassan, Karnataka, March 28-29, 2016.
26. Novel substituted Quarternized Chitosan Benzyloxy Derivative; Evaluation of biological activity, Anush S. M. and Vishalakshi B, 9th KSTA Annual Conference on Science, Technology and Innovations in the 21st Century, Christ University, Bangalore, Dec. 20- 21, 2016.
27. Amphoteric Locust Bean Gum based Terpolymer/ Bentonite Composite Hydrogel: Preparation, Swelling and Dye Adsorption Studies, Sirajo Abubakar Zauro and B. Vishalakshi, 9th KSTA Annual Conference on Science, Technology and Innovations in the 21st Century, Christ University, Bangalore, 20 and 21 December 2016.
28. Microwave assisted synthesis, characterization and swelling studies of pH and temperature responsive novel Karaya gum-graft-poly(2-(dimethylamino)-ethylmethacrylate) (KG-g-DMAEMA), Preetha B. K. and Vishalakshi B., National Conference on Particle accelerators in interdisciplinary research (PAIR), Mangalore University, Mangalagangothri, India., 1-3 April 2017.
29. Dye adsorption behaviour of novel Karaya gum grafted poly(2-(dimethylamino)ethylmethacrylate) KG-g-PDMAEMA hydrogel, Preetha B. K., and Vishalakshi B., National Conference on Reaching the Unreached through Science and Technology : Recent advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment held at Mangalore University on 8th -9th September 2017.
30. Adsorption of Cationic Dyes from Aqueous Solutions Using Novel Nanocomposite Hydrogel: A High-Efficiency Water Remediation Method, Arun Krishna K. and Vishalakshi B., National Conference on Recent advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment Mangalore University, Mangalore, during 8th -9th September 2017.

31. Efficient removal of Cu^{2+} and Pb^{2+} from aqueous solution by xanthan gum graft copolymer, Sirajo Abubakar Zauro and Vishalakshi B., National Conference on Recent advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment held at Mangalore University, Mangalore, during 8th-9th September 2017.
32. Pectin-graft-poly(2-acrylamido-2-methylpropane sulfonic acid) silver nanocomposite Beads: Preparation, characterization and study of antibacterial activity, Gangadhar B. and Vishalakshi B., National Conference on Novel Polymeric materials (Synthesis, Processing and Characterization) (polycon 2017), Department of polymer Science and Technology, SJCE Mysuru during 15th-16th September 2017.
33. Heterocyclic modification of chitosan for the Adsorption of Cu and Cr ions, Anush S. M., and Vishalakshi B., National Conference on Novel Polymeric materials (Synthesis, Processing and Characterization) (polycon 2017) Department of polymer Science and Technology, SJCE Mysuru during 15th-16th September 2017.
34. Sorption of Toluidine blue from aqueous solution: Kinetic, isotherm and thermodynamic studies using Karaya gum- graft-poly(N,N-dimethylacrylamide) KG-PDMA gel, Preetha B. K., and Vishalakshi B., 10th Annual KSTA Conference on Science and Technology for future of humanity Reva University, Bangalore, 18,19 January 2018.
35. Pectin based hydrogels as effective adsorbent materials for water purification, 37th Annual conference of Indian Council of Chemists', Arun Krishna K., Sirajo Abubakar Zauro, Vishalakshi B., National Institute of Technology (NITK) Surathkal on 12-14 th December 2018.
36. Synthesis, characterization and evaluation of Karaya gum-graft-poly((2-methacryloyloxyethyl)trimethylammoniumchloride)/MAwardee Lontmorillonite clay composite (KG-g-PMETAC/MMT) as potent material for sequestration of cationic dyes, Preetha B. K. and Vishalakshi B., " 37th Annual conference of Indian Council of Chemists' National Institute of Technology (NITK) Surathkal during 12-14 December 2018 [Received 'Prof. S. T. Nandibewoor award' for best oral presentation in physical chemistry section].
37. Pectin based magnetic nano composite hydrogel :Evaluation as adsorbent for cationic dyes, Prajwal and Vishalakshi B. , 37th Annual conference of Indian Council of Chemists' National Institute of Technology (NITK) Surathkal on 12-14 th December 2018.
38. Antibacterial agent loaded nano-lipid carriers for the selective mitigation of pathogenic bacteria and their biofilms in the skin. Vivek M. Ghate, Arun Krishna K., Vishalakshi B., Bharathi Prakash, Shaila A. Lewis, AAPS Pharm Sci 360, Washington DC, USA during November 4-7th 2018.

39. Development and Evaluation of Tamarind Gum/ Sodium Alginate-ZnO nanocomposite Microcapsules for Sustained bioactive Release, Rakshith Nayak & Vishalakshi B., 44th Annual Conference of the Indian Council of chemists, KLE Technological University, BVBCET Campus Hubballi, 22-24 December 2025

Invited Talks Delivered

1. “Plastic Waste disposal-Problems and Solutions” for Inauguration of activities of Chemistry Club of St.Agnes College for the year 2004 –July 2004.
2. “History of Plastics “ was broadcasted by All India Radio, Mangalore Station on September 2004.
3. “Conducting Polymer Materials” as resource person for the TEQIP sponsored national workshop on Electronic and Optical Materials and Devices at NMAM Institute of Technology, Nitte, Karnataka on 24 August 2006.
4. “Polymers in Pharmacy” at the K S Hegde Charitable Hospital, Deralakatte for the PG students, Research Scholars and Faculty of Nitte Gulabi Shetty Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore on 8 April 2009.
5. ‘Polymers for Biomedical Applications’ at Faculty Development Programme on ‘Specialty polymers for medical and engineering applications’ KVG college of Engineering, Sullia on 25 March 2011.
6. ‘What determines the solubility of polymers?’ in the one week short-term training program on ‘recent advances in polymer science’ sponsored by the all India Council for Technical Education, NITK, Surathkal on 4 August 2011.
7. ‘Writing scholarly articles for science journals’ as resource person on the occasion of Librarians day celebrations at St.Agnes College, Mangalore on 12 August 2013.
8. ‘Smart Polymers for Biomedical and Agricultural Applications’ at the National Symposium on “Polymers-Plural thoughts over the Boons and Bans” the Department of Chemistry, Nehru Arts and Science College, Kanhangad, Kerala on 6 & 7 February 2014.
9. ‘Polymers for pharmaceutical applications’ at the National Conference on ‘Current Trends in Scientific Research for Engineering Applications’(NCSEA-2014) at Department of Science, St.Joseph Engineering College, Vamanjoor, Mangalore-575 028, during 17-18 July 2014.
10. “Polysaccharide Based Nanocomposite Hydrogels: Agricultural and Industrial Applications” in the International Conference on Advanced Materials and Technology (ICMAT-16) Organized by- Shri Jayachamarajendra College of Engineering, Mysore during May 26-28, 2016.
11. Inaugural address at the national workshop on Microscale experiments and ICT in chemistry, on 30 & 31 January 2017 at St. Agnes College PG Centre, Mangalore.
12. Inaugural address at chemistry intercollegiate competitions, University college, Mangalore, 2017.
13. Two lectures on the topics, 1. Smart Polymers and their applications, 2. Polymers-Friend or Foe? as resource person for 14th UGC Refresher Course at Academic Staff College, Mysore University, Manasagangothri, Mysore. February 9, 2018.
14. Prof. Kaza Somasekhara Rao Awardee Lecture on the topic, “Development of polysaccharide based drug delivery systems: Opportunities and Challenges” in its 37th annual conference NITK, Surathkal during 12-14th December 2018.
15. Pectin-based hybrid nanocomposite hydrogel films as implantable drug delivery systems for treatment of Alzheimer’s disease in the international conference on

direct digital manufacturing and polymers, ICDDMAP-2019 held during 20-23 February 2019 at Karnatak University, Dharwad.

16. Polysaccharide based hybrid nanocomposites : Evaluation as adsorbent materials for water purification, Trends in Materials and Chemical Sciences (TMCS-2019), 4-5th November 2019, Manipal Institute of Technology, Manipal.
17. 'The Art of Writing a Scientific Paper' in the national level webinar on Scientific Paper Writing organised by St.Aloysius College, Mangalore on 23 June 2020.
18. 'Research Data Generation-analyse and Interpret'' in the Faculty Development Programme by St.Aloysius deemed to be University, Mangalore on 12th July 2025.
19. Development of Polysaccharide based nanocomposite materials as devices for dual drug delivery in cancer treatment , International conference on Innovations in chemistry: Materials and Medicines for Sustainable Society (ICMMSS-2025) organized by the Department of PG studies and research in chemistry, SDM College, Ujire held during 8-10 October 2025. (technical session VIII held on 10 October 2025.

Administrative Experience

Presently Serving as:

Member, Academic Council, Mangalore University
Member, Faculty of Science and Technology, Mangalore University.
Deputy Director, IQAC, Mangalore University
Member, IQAC, Mangalore University
Member, NIRF Ranking and UI GreenMetric World University Ranking Committees
University Nominee, Academic Council, School of Social Work, Roshni Nilaya
University Nominee, Academic Council, SDM College, Ujire Member,
Member, BOS in Chemistry, Mangalore University
Member, Doctoral Committee for PhD programme in Chemistry, Mangalore University
Member, Departmental Council in Chemistry, Mangalore University
Member, BOS in Industrial Chemistry, Mangalore University
Member, Doctoral Committee in Materials Science, Mangalore University
Chairperson, Subcommittee for Faculty Resources, Learning and Teaching (Criterion 2 and 5) -for preparing AQAR 2024-25
Executive Committee Member, Mangalore University Teacher's Association
Member of Doctoral Committee in Science Faculty of Bangalore University
Member, PGBOS in Chemistry, Bangalore University

Also Served as:

Chairperson, Department of Chemistry: 2015-16 & 2023-24
Chairperson, BOS for Diploma in Fire and Industrial Safety
Chairperson, UG and PG BOS in Chemistry
Chairperson, PG BOE in Chemistry, Organic Chemistry and Applied Chemistry
Chairperson, PhD Coursework Examinations in Chemistry
Chairperson, Doctoral Committee in Chemistry

Chairperson, Committee for Admission to M.Sc. Chemistry/Analytical chemistry/Organic chemistry/ Applied chemistry Programmes
Chairperson, Committee for Admission to PhD Chemistry Programmes
Chairperson, Local Inquiry Committee for granting affiliation to Colleges
Chairperson, Editorial Board of Mangalore University Newsletter
Chairman, Counseling Cell, Mangalore University
Chairperson, Special Cell (Sexual Harrassment at Workplace
Coordinator, DST PURSE Instrumentation Centre, Mangalore University
Chairman, Committee to revise user charges at DST PURSE Lab
Warden, Working Women's Hostel, Mangalagangothri
Member of Board of Appointment of Examiners for M.Sc.Chemistry, Applied Chemistry/Organic Chemistry Programmes
Member of Board of Appointment of Examiners for PhD course work Examination in Chemistry
Member of Board of Appointment of Examiners for Diploma in Fire & Industrial Safety
Member, Committee to Review Admission Process, Mangalore University
Member of National Institutional Ranking Framework Committee, Mangalore University
Member, Committee to revise charges for NMR analysis of samples
Member, Committee to revise charges for analysis of samples at CARERand CARRT.
Member, Mangalore University College Magazine committee
Member of subcommittee for implementation of Institutional Development Plan
Member of Interdisciplinary Journals Review Committee to recommend Journals for inclusion in UGC Care List
Member of Selection Committee for promotion of teachers under CAS
Member, Committee for selection of Guest Faculty in Chemistry
Member, Doctoral Committee of Materials Science
Member, Mangalore University Fee Revision committee
Member of Mangalore University Newsletter committee
Member of Mangalore University Annual Report committee
Member of Foundation Day and Teachers' Day Celebration committee
Member, Committee to submit a proposal to Karnataka Innovation and Technology Society (KITS), Govt. of Karnataka for establishing Technology Business Incubator (TBI) in Mangalore University
Member of the committee for inspection of infra structure facilities at St.Aloysius College for granting permission to start new PG Programms
Member-Expert for appointment of Assistant Professor in Chemistry, Kanara College Society, Kumta
Member, BOS of St.Aloysius College (Autonomous), Mangalore
Member, PGBOS in Chemistry, Kuvempu University
Member, PG BOE in Chemistry, Bangalore University
Univerity Nominee for Governing Body, St. Agnes College (Autonomous), Mangalore
University Nominee for Governing Body, Al Ihasan First Grade College,Mangalore
University Nominee for Governing Body, Mysba Women's College, Surathkal
University Nominee to Academic Council, St.Ann's college of Education, Mangalore
University Nominee for Governing Body, Besant Women's College,Mangalore
University Nominee for Governing Body, Leelavathi shetty,College of Education, Mangalore
University Nominee, BOS, M.Sc Chemistry Programme, St.Aloysius College (Autonomous)

University Nominee Member, BOS, M.Sc Analytical Chemistry Programme, St.Aloysius College (Autonomous)

University Nominee for PG Programme in Chemistry, Vivekananda College of Arts, Science and commerce, Puttur

Chairperson, BOS in Chemistry, Vivekananda College, Puttur

Member of Inspection Committee for granting recognition to PG Departments of Alva's College, Moodbidre as Research Centres

Member, Committee to select students for participation in Exchange Programme with Uttarakhand States under EkBharath Shreshtha Bharath Campaign

Member of Committee for Admission to M.Sc, Chemistry/Analytical chemistry/Organic chemistry/ Applied chemistry Programmes

Member, Admission committee to PhD programme in Chemistry

Member, Committee to frame regulations to implement NEP -2020 to UG programmes of Mangalore University

Member, Committee to revise regulations related to Academic Bank of Credit as per NEP 2020

Member, sports and Cultural Policy Subcommittee for implementation of NEP-2020

Member, Finance Reforms, Subcommittee for implementation of NEP-2020

Member, Committee to frame rules with regard to granting Maternity Leave to Women students enrolled for PG Programmes of MU Departments and Colleges affiliated to Mangalore University

Member, Committee to frame guidelines for purchase of chemicals and glasswares to Science Departments at MU Campus.

Member, Committee to scrutinize applications for promotion of teachers of MU Campus Departments and Constituent Colleges of MU under CAS.

Member, Research, Development, Consultancy and Patent Cell, Mangalore University

Member, Committee for Renewal of Recognition of Mangalore University under SIRO by DSIR

Member of Core Committee for the preparation of AQAR 2019-20

Convenor of Criterion-2: Teaching , Learning and Evaluation for preparing AQAR-2019-20

Judge for Science Models and Projects competition in cultural Jamboori and Science Mela at Alva's College, Moodbidre

Staff Advisor of Chemical Society, a Subject Association of Chemistry

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