


FACULTY PROFILE

Department: **Chemistry**

1. Personal Details

NAME	Dr. Mahesh B	
DEPARTMENT	Chemistry	
DESIGNATION	Dean-Research and Professor of Chemistry	
PHONE	9448210363	
EMAIL ID	dean_research@jssateb.ac.in, bmahesh@jssateb.ac.in	
Date of Joining (JSSATEB)	28-10-2005	

2. Experience

Total Experience in Years	Teaching: 25 Years	Industry: Nil	Research: 16.0 Years
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3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.Sc.,	PCM	1996	Bharathi Education Trust, Bharathi Nagara, Mandya Distt-571422	University of Mysore
M.Sc.,	Chemistry	1998	DOS in Chemistry, Manasaganagothri, Mysuru-570006	University of Mysore
Ph.D.	Synthetic Organic Chemistry	2004	DOS in Chemistry, Manasaganagothri, Mysuru-570006	University of Mysore

4. Research awards & Publications

i. Awarded a silver medal under the category "Healthy Society" for the project titled "Design of innovative wound healing materials from synthetic polypeptides with collagen" InnoWings 2023 exhibition held on June 15-16, 2023, Centrum Innowacji Naukowo-Edukacyjnych ul. Agatowa 19/57, 20-571 Lublin (Poland)

Papers Published in Web of Science indexed Journals	International: 31	National: 01
Papers Published in SCOPUS indexed Journals	International: 34	National: 0
Papers Published in other Journals	International: 2	National: 01
Papers Presented in Conferences / Symposium	International: 22	National: 13
Books / Book chapters Published	Name of the book: Engineering Chemistry, 1 st edition, Publisher: Star-Tech Year of Publication: 2012	
	Name of the book: Engineering Chemistry, 2 nd edition, Publisher: SUNSTAR Year of Publication: 2014	
	Name of the book: Engineering Chemistry, 3 rd edition, Publisher: SUNSTAR Year of Publication: 2015	
	Name of the book: Engineering Chemistry, 4 th edition, Publisher: SUNSTAR Year of Publication: 2016	
	Name of the book: Engineering Chemistry, 6 th edition, Publisher: SUNSTAR Year of Publication: 2022, ISBN 9789385155703	

5. i. Research Guidance

PhD Guide? Give field & University	Yes, Chemistry-Synthetic Organic Chemistry, Natural Chemistry, Nanomaterials, Peptide-based materials	University: Visvesvaraya Technological University, Belagavi,
PhDs / Projects Guided	Ph.D. Awarded: 01 (One) Guiding: 06	Projects at Master's Level: 1(M.Phil) Projects at Bachelor's Level: -

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
"Establishment of R&D facilities for synthesis, characterization and study on applications of proteins"	30.00 Lakh	28.4.2015	3 equal installments	VGST, Department of IT,S&T and BT, Govt. of Karnataka
Development of innovative smart packaging systems: sensors to monitor fruit quality	0.06 Lakh & 0.05 Lakh	27.6.2022	03 months (45S_BE_3842)	Karnataka State council for Science and Technology Indian Institute of Science Campus 45 th series student project programme:2021-22 & VTU-Belagavi
Faculty development on "Recent Advances in Applied Chemistry and Nano Technology"	2.00 Lakh	07.2.2012	-	VTU-VGST, Department of IT,S&T and BT, Govt. of Karnataka

ii. **Patents:** A method for determining fluoride in natural waters and fabrication of a biodegradable colorimetric film (Indian Patent Application No. 202141054549, Chemical sciences division filed on 25.11.2021)

iii. Research students guiding/awarded for their PhD

Name of the Research scholar	Title of the research work	Month & Year of Regn.	USN	Status
Nanjunda Swamy G S	Synthesis, characterization and miscibility studies of some selected peptides with other polymers.	March 2015	1JS15PGJ04	Awarded (January 2020)
Kokila N R	Phytochemical investigation and pharmacological screening of selected medicinal plants.	December 2014	1JS15PGJ03	Comprehensive Viva completed
Lokesh H R	Peptide-based therapeutics- Drug design and delivery for cancer.	November 2015	1JS16PGJ03	Re-Registered/ Comprehensive completed
Kathyayani D	Synthesis and characterization of polypeptides: Examination on the miscibility of their blends with commercially available polymers for therapeutic applications	November 2015	1JS16PGJ02	Thesis Submitted_Awaited for results
Siddegowda K S	A Study on synthesis, Characterization, antimicrobial and electro-catalytic activity of metal oxide Nanoparticles.	February 2017	1JS17PGS03	Comprehensive Viva completed
Preethi G	Synthesis and Characterization of Ruthenium and copper complexes containing substituted benzimidazole ligands and their cytotoxic activity	December 2017	1JS18PCT01	Comprehensive completed
Asha S C	Development of Smart Packaging Materials	December 2021	1JS20PCY01	New candidate

7. Publications

i. International Journals

Sl. No	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Investigation of miscibility and physicochemical properties of synthetic polypeptide with	D. Kathyayani, B. Mahesh, D. Channe Gowda, Alina Sionkowska, S. Veeranna	International Journal of Biological Macromolecules	Volume 246, 15 August 2023, 125704	Both	8.2	Elsevier

	collagen blends and their wound healing characteristics						
2	A Comprehensive Review on "Cardiospermum halicacabum"	Aathira P Suresh, Nallupillai Paramakrishnan, Mahesh Basavaraju, K Mruthunjaya	Journal of Natural Remedies	Accepted on 24 April 2023	Both	0.4	Informatics Journals
3	Interaction between synthetic elastin-like polypeptide and collagen: Investigation of miscibility and physicochemical properties	B Mahesh , HR Lokesh, D Kathyayani, Alina Sionkowska, D Channe Gowda, Katarzyna Adamiak	Polymer,	Volume 272, 2023, 125833, ISSN 0032-3861, https://doi.org/10.1016/j.polymer.2023.125833 .	Both	4.6	Elsevier
4	α -Amylase inhibitory potential of <i>Thunbergia mysorensis</i> leaves extract and bioactive compounds by in vitro and computational approach	N. R. Kokila, B. Mahesh , Ramith Ramu, B. Roopashree & K. Mruthunjaya	Journal of Biomolecular Structure and Dynamics	Published online: 16 Mar 2023 10.1080/07391102.2023.2190408	Both	5.235	Taylor & Francis
5	Inhibitory effect of gallic acid from <i>Thunbergia mysorensis</i> against α -glucosidase, α -amylase, aldose reductase and their interaction: Inhibition kinetics and molecular simulation	N. R. Kokila, B. Mahesh , Ramith Ramu, K. Mruthunjaya, B. K. Bettadaiah & Harishkumar Madhyastha	Journal of Biomolecular Structure and Dynamics	December 2022 DOI: 10.1080/07391102.2022.2156923	Both	5.235	Taylor & Francis
6	Determination of vardenafil in pure and dosage forms by spectrophotometry	K. P. Roopa, K. Keshavamurthy, B. Mahesh , K. P. Veena, B. S. Shankara, K. Basavaiah	Journal of applied spectroscopy	Vol. 89, Issue No.4, 2022 https://doi.org/10.1007/s10812-022-01429-y	Both	0.816	Springer
7	Design and Development of a novel reagent for the spectrophotometric assay of phosphate in water and soil samples.	N.A.Chamaraja, B.Mahesh ,	JSS Journal of Scientific Studies	Vol.1, Issue No. 1, Page No. 24-29, 2022	-	-	JSS Academy of Technical Education, Bengaluru
8	Synthesis and structural characterization of elastin-based polypentapeptide/hydroxypropylmethylcellulose blend films: Assessment of miscibility, thermal stability and surface characteristics.	D.Kathyayania B. Mahesh , N.A.Chamaraja, B.S.Madhukar, D. Channe Gowda	Colloids and Surfaces A: Physicochemical and Engineering Aspects,	Vol. 649, 2022, 129503, ISSN 0927-7757, https://doi.org/10.1016/j.colsurfa.2022.129503 .	Both	5.518	Elsevier
9	Green synthesis of Zn/Cu oxide nanoparticles by Vernicia fordii seed extract: their photocatalytic activity toward industrial dye degradation and their biological activity.	Chamaraja N A, Mahesh B and Rekha N D	Inorganic and Nano-Metal Chemistry	2022 https://doi.org/10.1080/24701556.2022.2069123	Both	1.716	Taylor & Francis

10	Miscibility and thermal stability of synthetic glutamic acid comprising polypeptide with polyvinyl alcohol: Fabrication of nanofibrous electrospun membranes.	B. Mahesh , D.Kathyayania, D.Channe Gowda AlinaSionkowska, SeeramRamakrishna	Materials Chemistry and Physics	Vol. 281, 125847, 2022 https://doi.org/10.1016/j.matchemphys.2022.125847	Both	4.778	Elsevier
11	Development of ciprofloxacin sensor using iron-doped graphitic carbon nitride as transducer matrix: Analysis of ciprofloxacin in blood samples	Hattna Shivarudraiah Vedhavathi, Ballur Prasanna Sanjay, Mahesh Basavaraju , Beejaganahalli Sangameshwara Madhukar, Ningappa Kumara Swamy	Journal of Electrochemica l Science and Engineering	Vo.12, Issue1, pages 59-70, 2022, https://doi.org/10.5599/jese.1112			
12	Sensing beyond Senses: An Overview of Outstanding Strides in Architecting Nanopolymer-Enabled Sensors for Biomedical Applications.	Malini, S., Roy, A., Raj, K., Raju, K. S., Ali, I. H., Mahesh , B. , ... & Lee, S. S.	Polymers	14(3), 2022 https://doi.org/10.3390/polym14030601	Both	5.0	MDPI
13	Thunbergia mysorensis mediated Nano Silver Oxide for Enhanced Antibacterial, Antioxidant, Anticancer potential and in vitro Hemolysis Evaluation.	Kokila N R; Mahesh B , Roopa K P; Daruka Prasad B; Kalyanraj; Manjula S N; Mrutunjaya K; Ramith Ram	Journal of Molecular Structure	1255, 132455, 2022 https://doi.org/10.1016/j.molstruc.2022.132455	Both	3.841	Elsevier
14	PANI - Molybdate Nanocomposites: Structural, Morphological and Dielectric properties for the effective EMI Shielding Applications in X-Band.	Nasreen Taj M; B Daruka Prasad; Rama Rao Narapareddy; H Nagabhushana ; G. Ramakrishna; B. Mahesh ; Sunanda Damini	Applied Surface Science Advances	2022, Vol. 7, Pages 100203, DOI: https://doi.org/10.1016/j.apsadv.2021.100203	Both	6.6	Elsevier
15	Determination of Solifenacin Succinate in Pure and Pharmaceutical Dosage forms by Spectrophotometry.	Roopa K P, Basavaiah K, Shankar B S, S.B. Mahesh B , Veena K P	J Anal Chem	2021, Vol 76 , 1262–1270 https://doi.org/10.1134/S1061934821110101	Both	1.06	Springer Nature Switzerland
16	Development of ciprofloxacin sensor using iron-doped graphitic carbon nitride as transducer matrix: Analysis of ciprofloxacin in blood samples.	Hattna Shivarudraiah Vedhavathi; Ballur Prasanna Sanjay; Mahesh Basavaraju ; Beejaganahalli Sangameshwara Madhukar; Ningappa Kumara Swamy	Journal of Electrochemica l Science and Engineering (I SSN 1847- 9286)	2021, Page No.1-12 http://dx.doi.org/10.5599/jese.1112	Both	1.64	IAPC Publishing, Croatia
17	Recent advances in photocatalytic remediation of emerging organic pollutants using semiconducting metal-oxides: an overview.	Komargoud Prakruthi; Mukkati Praveena Ujwal; Shivamurthy Ravindra Yashas; Basavaraju Mahesh ; Ningappa Kumar Swamy; Harikaranahalli Puttaiah Shivaraju	Environmental Science and Pollution Research	2021, Page 1-28, DOI : 10.1007/s11356-021-17361-1	Both	5.8	Springer- Verlag GmbH Germany

18	Green synthesis of silver nanoparticles using cow urine: Antimicrobial and blood biocompatibility studies.	<u>A.S.Santhosh</u> <u>S.Sandeep</u> H.M.Manukumar B.Mahesh N.Kumara <u>Swamy</u>	JCIS Open	Vol. 3, October 2021, https://doi.org/10.1016/j.jci so.2021.100023	Scopus	-	Elsevier
19	Antimicrobial, Haemolytic and Antibiofilm Assay of Green Synthesized Silver Nanoparticles by Aqueous Extracts of Rubia cordifolia.	Surendra Doddarasinakere Mariswamy; Chandrashekar Kagepura Thimmaiah ; Vasantha Kumar Basappachidananda; Mahesh Basavaraju; Chamaraja Nelligere Arkeswaraiah	Int. J. Pharm. Sci. Rev. Res.,	2021, 67(2), 174-184, http://dx.doi.org/10.47583/i jpsrr.2021.v67i02.028	-	-	www.globalresearchonline.net
20	Colorimetric detection of chromium (VI) using peroxidase mimetic IONPs with 4-aminoantipyrene and 3-aminophenol as a chromogen.	Chamaraja N.A, Mahesh B, Praveen Kumar C B,	Environmental Nanotechnology, Monitoring & Management	2021 https://doi.org/10.1016/j.enmm.2021.100471	Scopus	5.6	Elsevier
21	Insights into the miscibility characteristics of plastic-mimetic polypeptide with hydroxypropylmethylcellulose: Investigation of thermal degradability and intermolecular interactions.	Mahesh B., Kathyayani D., Lokesh H. R., Channe Gowda D., Alina Sionkowska,	Colloids and Surfaces B: Biointerfaces	Volume 205, 2021, 111877, ISSN 0927-7765, https://doi.org/10.1016/j.colsurfb.2021.111877 .	WOS & Scopus	5.999	Elsevier
22	Development and validation of spectrophotometric methods for the assay of mirabegron in bulk and pharmaceutical formulations.	K. P. Roopa, K. Basavaiah, B. S. Shankara and B. Mahesh	Journal of Applied Spectroscopy	87(6), 2021 DOI 10.1007/s10812-021-01126-2 (Russian Original Vol. 87, No. 6, November–December, 2020)	Both	0.816	Springer
23	Examination of miscibility characteristics of the synthetic plastic-mimetic peptide with polyacrylamide: development of nonwoven mats by electrospinning.	G.S. Nanjundaswamy, B. Mahesh , D. Channe Gowda , N.A. Chamaraja, Gangadhar Angadi,	<i>Polymer-Plastics Technology and Engineering</i>	(2020) https://doi.org/10.1080/25740881.2020.1811322	Both	2.439	Taylor & Francis
24	Blends of synthetic plastic-derived polypeptide with Hydroxypropylmethylcellulose and polyvinyl alcohol: unraveling the specific interaction parameters, morphology and thermal stability of the polymers couple.	B. Mahesh , D. Kathyayani, D. Channe Gowda, K. Mrutunjaya	<i>Journal of Polymer Research</i>	27,278(2020) https://doi.org/10.1007/s10965-020-02191-5	Both	3.061	Springer
25	Zinc oxide Nanoparticles Supported on Multi-	Siddegowda K.S. Mahesh B	<i>Electroanalysis</i>	32,1–11,(2020)	Both	3.077	Wiley USA

	Walled Carbon Nanotube Modified Electrode for Electrochemical Sensing of a Fluoroquinolone Drug.	Chamaraja NA Roopashree B. Kumara swamy N, Nanjundaswamy G.S,		DOI: https://doi.org/10.1002/elan.202000010			
26	Enzymatic method and its validation for the micromolar assay of glucose in human serum samples	Nelligere Arkeswaraiah Chamaraja, Mahesh Basavaraju and Ningappa Kumara Swamy,	<i>Analytical Biochemistry</i>	590,11536, (2020) DOI:10.1016/j.ab.2019.113536	Both	3.191	Elsevier
27	Exploration of bioactive components of thunbergia coccinea, its Pharmacognostic, antioxidant, GCMS and Antihyperglycemic studies.	Kokila N R, Mahesh B , Mruthunjaya K	<i>International Journal of Pharmacy and Pharmaceutical Sciences</i>	12(6), 45-54, (2020), DOI:doi:10.22159/ijpps.2020v12i6.37290	Scopus	2.029	Innovare Academic Sciences
28	Miscibility studies of plastic-mimetic polypeptide with hydroxypropylmethylcellulose blends and generation of non-woven fabrics.	B. Mahesh , D. Kathyayani, G.S. Nanjundaswamy, D.C. Gowda, R. Sridhar,	<i>Carbohydrate Polymers</i>	212,129-141, (2019) http://dx.doi.org/10.1016/j.carbpol.2019.02.042	Both	11.2	Elsevier
29	Impact of Blend Proportion on the Miscibility and Thermal Characteristics of Synthetic Plastic-Derived Polypentapeptide with Commercially Available Polyvinyl Alcohol.	B. Mahesh , G. S. Nanjundaswamy, D. Kathyayani, D. Channe Gowda & Siddaramaiah	<i>Journal of Polymers and the Environment</i>	27,2267–2280(2019) https://doi.org/10.1007/s10924-019-01511-1	Both	5.3	Springer
30	Fabrication of copper oxide nanoparticles modified carbon paste electrode and its application in simultaneous electroanalysis of guanine, adenine and thymine.	Siddegowda K.S. Mahesh B and Kumaraswamy N	<i>Sensors and Actuators A: Physical</i>	280, 277-286(2018), doi 10.1016/j.sna.2018.07.049	Both	4.6	Elsevier
31	Elastin-based polymer: synthesis, characterization and examination of its miscibility characteristics with poly(vinyl alcohol) and electrospinning of the miscible blends.	<u>Nanjundaswamy Gumatapura Siddamallappa</u> , Mahesh Basavaraju , <u>Channe Gowda Dase Gowda</u>	<i>Polymer International</i>	67,11, (2018) doi: 10.1002/pi.5669	Both	3.213	Wiley Online Libraray, USA
32	Synthesis and evaluation of interaction parameters of synthetic elastin-derived polypentapeptide with poly(vinylpyrrolidone)	B. Mahesh , G. S. Nanjundaswamy, D.Channe Gowda, Siddaramaiah	<i>Journal of Applied Polymer Science</i>	134, 36, (2018). doi: 10.1002/app.44624	Both	3.057	Wiley online library, USA

	in solution and solid phase.						
33	Synthesis of elastin-based polymer and evaluation of its intermolecular interactions with hydroxypropyl methylcellulose.	B. Mahesh , G. S. Nanjundaswamy, D.Channe Gowda, Siddaramaiah	<i>Journal of Applied Polymer Science</i>	134, 36, (2017). https://doi.org/10.1002/app.45283	Both	3.057	Wiley online library, USA
34	Investigation on miscibility behaviors of elastin-like polypentapeptide blends with polyvinyl alcohol in aqueous and solid state	B. Mahesh , G. S. Nanjundaswamy, D.Channe Gowda, Siddaramaiah	<i>Journal of Applied Polymer Science</i>	134,12, (2016) DOI: 10.1002/app.44624	Both	3.057	Wiley online library, USA
35	Synthesis, Characterization, and Antibacterial Activity of Co(II), Ni(II), Cu(II), Zn(II), Cd(II), and Hg(II) Complexes of Schiff's Base Type Ligands Containing Benzofuran Moiety.	N. Shashidhar Reddy, B. S. Shankara, P. Murali Krishana, C. Basavaraj. B. Mahesh	<i>International Journal of Inorganic Chemistry</i>	Vol. 2013, 10 pages(2013) DOI: http://dx.doi.org/10.1155/2013/614628	Scopus	1.271	Hindwai
36	New hydrogen donor: A facile method for the removal of hydrogenolysable protecting groups in peptide synthesis.	Channe Gowda, D. Mahesh B	<i>Protein and Peptide Letters</i>	9, 225-230,(2002) DOI:10.2174/0929866023408733	Both	1.89	Bentham Science Publishers
37	Catalytic transfer hydrogenation of aromatic nitro compounds by employing ammonium formate and 5% platinum on carbon	Channe Gowda, D. Mahesh B	<i>Synthetic Communications</i>	30, 3639-3644, (2000) DOI:10.1080/00397910008086990_	Both	1.937	Taylor and Francis Ltd.

ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1.	Zinc-catalyzed ammonium formate reductions: Rapid and selective reduction of aliphatic and aromatic nitro compounds.	Channe Gowda, D, Mahesh B , Gowda, S.	<i>Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry</i>	40, 75-77,(2001)	WOS	0.456	CSIR-NISCAIR
2.	Green Synthesis, Characterisation and Applications of Metallic silver Nanoparticles.	Sandeep S, Santhosh A.S, Kumaraswamy N, B. Mahesh	<i>JSSCM Journal</i>	4(1), 33-44,(2015)	-	-	JSS Arts Science and Commerce college, Mysuru

iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	An overview of biomaterials of synthetic	Mahesh B	108 th ISCA conference, Rashtrasant Tukadoji	Invited talk (2023) Jan 4 to Jan 6, 2023	-	-	Rashtrasant Tukadoji Maharaj Nagpur

	modified polypeptides with naturally available polymers: Study on interaction parameters		Maharaj Nagpur University, formerly Nagpur University				University, formerly Nagpur University
2	Acanthaceae family: Recent perspectives and futuristic strategy to medical applications.	Mahesh B	9th International congress for Society for Ethnopharmacology	JSS College of Pharmacy April 22-24 2022	-	-	JSS College of Pharmacy Conference proceedings
3	A Review on pH-sensitive Smart Food Packaging Materials Using the Blends of Synthetic Polymers and Natural Food Pigments.	Asha S. C., Mahesh B. , 1 Roopashree B., and Divakar S. G.	6 th International Conference on Recent Advances in Material Chemistry (ICRAMC 2022)	SRM Institute of Science and Technology - Kattankulathur-Feb.17-19, 2022	-	-	SRM Institute of Science and Technology ICRAMC 2022- Proceedings
4	Generation of nanofibers from synthetic plastic-mimetic polypeptides and functionally similar polymers for biomedical applications.	Mahesh B	Second International conference on Material science and Technology	2, 76-77, (2020)	-	-	ICMAT, Dept of PS&T, JSS S&T University, Mysuru-proceedings.
5	Development of Metal oxide nanoparticles and multiwalled carbon nanotube modified carbon paste electrochemical sensor for Moxifloxacin.	Siddegowda K S, Mahesh B Chamaraju N A, Roopashree B, and Kumara Swamy N	Second International conference on Material science and Technology	2, 174-175, (2020)	-	-	ICMAT, Dept of PS&T, JSS S&T University, Mysuru-proceedings.
6	Antioxidant activity of novel Schiff base Iron(III) complex of substituted benzimidazole.	Roopashree B, Mahesh B , Preethi G, Gayathri V	Second International conference on Material science and Technology	2, 250-251, (2020)	-	-	ICMAT, Dept of PS&T, JSS S&T University, Mysuru-proceedings.
7	Quantitative Analysis of Intermolecular Interactions of PLPs with PVA Blends.	Kathyayani, D, Mahesh B , and Channe Gowda, D	Second International conference on Material science and Technology	2, 216-217, (2020)	-	-	ICMAT, Dept of PS&T, JSS S&T University, Mysuru-proceedings.
8	Organic transformations using catalytic transfer hydrogenation with metal nanoparticles as catalysts-Review.	Usharani, Mahesh B , Nanjundaswamy GS, and Channe gowda D	International conference on advanced materials and nanotechnology	1, 2 (2020)	-	-	Jaypee Institute of Information Technology, Noida (INDIA) - proceedings
9	Design and synthesis of blends of protein-based polymers: opportunities and challenges towards biomedical applications.	Mahesh B	International conference on Advances in Materials Research (ICMAR-2019)	Plenary Talk(2019)	-	-	M S Ramaiah University of Applied sciences, Bengaluru-proceedings
10	Synthesis and Miscibility Characteristics of Peptide-based Polymer Blends with Commercial Available Polymer.	Rajeshwari, P.R. Kathyayani, D.Channe Gowda, D and Mahesh B	International conference on Advances in Materials Research (ICMAR-2019)	(2019)	-	-	M S Ramaiah University of Applied sciences, Bengaluru-proceedings
11	Synthesis, characterization of peptide-derived plastic polymer and evaluation of its miscibility parameters with polyvinyl alcohol (PVA).	Pushpa, C.S. Nanjundaswamy, G.S. Channe Gowda, D and Mahesh B	International conference on Advances in Materials Research (ICMAR-2019)	(2019)	-	-	M S Ramaiah University of Applied sciences, Bengaluru-proceedings.
12	Plastic-derived polypentapeptides: Synthesis and investigation of	Kathyayani D, Nanjundaswamy GS, B. Mahesh and	3rd international conference on Recent advances in material chemistry	106 (2019)	-	-	SRM University, Chennai-proceedings

	physicochemical characteristics of miscible blends in solution phase method.	Channe Gowda D					
13	Synthesis and characterization of protein-based plastic polypeptide; Investigation of the miscibility and thermal degradation characteristics with PVA.	Mahesh B	106 th ISCA conference, Indian science congress Association, 3-7 th Jan 2019. Lovely Professional university, Pagwara, Jalandhar	2019	-	-	ISCA, Kolkatta-proceedings
14	Elastin based polymers: Synthesis, characterization and exploration of its miscibility with other polymer.	Mahesh B	105 th ISCA conference, Indian science congress Association, 16-20 th March 2018, Manipur University, Imphal.	3, 2018	-	-	ISCA, Kolkatta-proceedings
15	Study on the miscibility characteristics of synthetic polypeptide blends with a commercially available polymer for biomedical applications.	B. Mahesh, Nanjundaswamy GS, Kathyayani D, Channe Gowda D and Siddaramaiah	One day International Symposium on "Advanced Materials" (ISAM-2017) Dept of Chemistry, JSS Science and Technology University, Mysore	8, 2017	-	-	Dept of Chemistry, JSS Science and Technology University, Mysuru-proceedings
16	An overview of blending of synthetic peptide-based macromolecules with other polymers for biomedical applications.	B. Mahesh	Polycon 2017, 7 th National Conference on Novel materials, Dept of Polymer Science and Technology, JSS Science and Technology University, Mysuru. Sept 15-16, 2017. (INVITED TALK)	33, 2017	-	-	Dept of Polymer Science and Technology, JSS Science and Technology University, Mysuru. - proceedings
17	Exploration of miscibility behavior of elastin-based polypeptide with a commercially available polymer.	B. Mahesh, Nanjundaswamy G S, Channe Gowda D, Divakar S G & Swamy D R	Polycon 2017, 7 th National Conference on Novel materials, Dept of Polymer Science and Technology, JSS Science and Technology University, Mysuru. Sept 15-16, 2017.	4, 2017	-	-	Dept of Polymer Science and Technology, JSS Science and Technology University, Mysuru-proceedings
18	FTIR as a tool for the investigation of miscibility characteristics of elastin-based polymer blends.	B. Mahesh	International Conference on Molecular Spectroscopy (ICMS 2017, 8-10 December, 2017). International Unit on Macromolecular Science and Engineering (IUMSE), Mahatma Gandhi University, Kottayam, Kerala INVITED TALK	91-92, 2017			Mahatma Gandhi University, Kottayam, Kerala-proceedings

19	Copper oxide nanoparticles as electrochemical sensor for the simultaneous detection of nucleic acids.	B. Mahesh , Sidde Gowda K S, Nanjundaswamy G.S and Bettadaiah B K	International conference on "Nano for Energy and water" & Indo-French Workshop on water networking(22-02-17 to 24-02-17). UPES, Deharadun	2, 2017	-	-	UPES, Deharadun-proceedings
20	Miscibility study on synthetic elastin based polypeptide with a commercially available polymer.	B. Mahesh , G.S. Nanjundaswamy, Kathyayani. D and Channe Gowda. D	Advanced Polymers for Science & Technology-2016, October 24 – 26, 2016, Department of Chemistry, School of Advanced Sciences VIT University, Vellore, INDIA	5, 2016	-	-	Department of Chemistry, School of Advanced Sciences VIT University, Vellore, INDIA-proceedings
21	An insight into the blends of synthetic peptides with other polymers-A review.	B. Mahesh Nanjundaswamy G S D C Gowda, Siddaramaiah	<i>International conference on Material science and Technology</i> 26 th to 28 th of May 2016	143,2016	-	-	ICMAT-16 proceedings
22	Study on miscibility characteristics of polypentapeptide of elastin with a classical polymer.	B. Mahesh , D C Gowda	<i>ICC XXXIV annual Conference, Uka Tarsadia University, Bardoli, Surat, Gujarat</i> Dec 26-28, 2015	3,2015	-	-	<i>ICC XXXIV annual Conference proceedings</i>
23	A Study on phytochemical investigation and pharmacological screening of medicinal plants.	Kokila N R B. Mahesh , Mrutunjaya K, Bettadaiah B K and Kumaraswamy N	<i>Current trends in Chemical Biology, PG Department of Chemistry JSS College of Arts, Commerce & Science, Ooty Road, Mysuru - 570 025, India</i> Dec 29-31, 2014	3, 2014	-	-	<i>PG Department of Chemistry JSS College of Arts, Commerce & Science, Ooty Road, Mysuru - 570 025, India-proceedings</i>
24	Synthesis, characterization and catalytic application of functionalized supporting material with ferrocene appended cobalt phthalocyanine complex.	Nanjundaswamy G S, B. Mahesh , Divakar S G, Channe Gowda D and Mallu P	<i>Current trends in Chemical Biology, PG Department of Chemistry JSS College of Arts, Commerce & Science, Ooty Road, Mysuru - 570 025, India</i> Dec 29-31, 2014	4, 2014	-	-	<i>PG Department of Chemistry JSS College of Arts, Commerce & Science, Ooty Road, Mysuru - 570 025, India-proceedings</i>
25	Investigation on the miscibility of polypeptide of Elastin with synthetic water soluble polymer in solution and solid state.	B. Mahesh , Kokila N R D C Gowda and Siddaramaiah	<i>National conference on Pure and applied chemistry, DOS in Chemistry, University of Mysore</i>	4,2014	-	-	<i>DOS in Chemistry, University of Mysore-proceedings</i>
26	DNA binding and cleavage activity of new (2E)-2-[(2-butyl-4-chloro-1H-imidazol-5-yl)methylidene]-N-ethylhydrazine carbothioamide with metal complexes.	B S Shankara, B. Mahesh , P Murali Krishna, N Shashidhara, Nanjundaswamy G S & V S Arun	<i>Recent trends in Chemical Research Dept of Chemistry, SJCE, Mysore, Jan 3-4, 2014</i>	18,2014	-	-	<i>Dept of Chemistry, SJCE, Mysore-proceedings</i>
27	Miscibility behaviour of PVA/Poly(GVGVP) blends by viscometry, ultrasonic	B. Mahesh , D C Gowda, Siddaramaiah	Asian Polymer association-2013 Panjab university, Chandigarh ,Polymers on	2013	-	-	Asian Polymer association, APA-2013-proceedings

	velocity, Refractive index, density and morphological analysis.		the frontiers of Science and Technology, FEB 21-23, 2013.				
28	Investigation on the Miscibility of Polypentapeptide of Elastin with Synthetic Polyvinyl alcohol in Solution and Solid state.	B. Mahesh & D C Gowda	32 nd annual conference of Indian council of chemists Nov 28-30 th , 2013, DOS in Chemistry, KARNATAK University, Dharwad	3, 2013	-	-	32 nd annual conference of Indian council of chemists proceedings
29	Synthesis, Spectra studies and biological activity of metal complexes of substituted benzofuran Schiff bases with Cu(II), Co(II), Ni(II), Zn(II), Cd(II), Ni(II) complexes.	B S Shankara, P Murali Krishna, N Shashidhara, Gopal Reddy, B. Mahesh	International conference on Synthetic and structural chemistry, DOS in Chemistry, Mangalore University Mangalore	10,2011	-	-	DOS in Chemistry, Mangalore University Mangalore-proceedings
30	Biochemical transformation of Pentachlorophenol by lignolytic enzymes of paecilomyces species.	B. Mahesh, N Kumara swamy	International conference on Current trends in Chemistry & biochemistry. DOS in Chemistry Bangalore	190,2009	-	-	DOS in Chemistry Bangalore-proceedings
31	New Hydrogen Donor, A Facile for the removal of hydrogenolysable Protecting Groups in Peptide Synthesis.	B. Mahesh & D C Gowda	20 th Conference of Indian council of Chemists 22-24 Dec-2001, Indian Council of Chemists, DOS in Chemistry, Mysore	2001			20 th Conference of Indian council of Chemists proceedings
32	Zinc Catalysed Ammonium formate Reduction: A Mild Reagent for Efficient Reduction of Carbonyl Compounds to Alcohols.	B. Mahesh & D C Gowda	Recent Trends in structure, Functions, Analysis of Molecules and Applications, DOS in Chemistry, University of Mysore Under the auspices of Sir M Visvewaraiah Chair, Mysore 28-30 OCT- 1999	20, 1999			DOS in Chemistry, University of Mysore Under the auspices of Sir M Visvewaraiah Chair, Mysore-proceedings
33	Catalytic Transfer Hydrogenation of Aromatic Nitrocompounds by Employing Ammonium Formate and 5% Platinum on Carbon.	B. Mahesh & D C Gowda	Indian Council of Chemists, University of Madras, Chennai, 17 th Conference of Indian council of Chemists 26-28, Nov-1998	1998			17 th Conference of Indian council of Chemists-proceedings

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organiser	Date
1.	One Day Workshop on Role of Chemistry in Higher Engineering Courses	Dept. of Chemistry, Sambhram Institute of Technology in association with Forum of Chemistry Teachers in Engineering Colleges under VTU	20.1.2018
2.	A Three day workshop on Emerging Trends in Applied Sciences	Dept. of Basic Science, SJBIT, Bangalore	22.1.18 – 24.01.2018
3.	Accreditation process for Technical institutions	JSSATE, Bengaluru	26.8.2016 to 27.8.2016
4.	Indian Society of Analytical Scientists	Atomic Minerals Directorate for Exploration and Research, Bangalore	15/7/2015
5.	Modern trends in Chemical research and their applications	NMAMIT, NITTE	10.7.2014 to 11.7.2014

6.	VTU-VGST Faculty Development Programme on “Recent trends in Applied chemistry and Nano-Technology”	26-30 March 2012	Chemistry Dept, JSSATE, Bengaluru
7.	International conference on synthetic and structural chemistry	DOS in Chemistry, Mangala Gangotri, Mangalore university, Mangalore.	08.12.11 to 10.12. 2011
8.	Faculty development program on “Recent advances in chemistry and material science	Ghousia college of Engg, Ramanagaram	02-02-11 to 04-02-2011
9.	National Science day	28 th Feb 2011	JSSATE, Bengaluru
10.	One day workshop on “Recent advances in electrochemical and surface science & engg	BNM IT, Bangalore	26-08-2010
11.	National conference on “Recent trends in Chemical research” at NITK Suratkal between 8-10, March 2010.	National institute of Technology, Karnataka. Suratkal.	08.03.10 to 10.03.2010
12.	Recent trends in battery technology (work shop)	BIT, Bangalore, & Electrochemical society of India,	24.02.2007
13.	STTP on Nano materials an emerging area of material and technology	Dr AIT, Bangalore	17.04.06 to 21.04.2006
14.	“International Conference on water and Health” at SJCE Campus, Mysore-04, India from January 22-23, 2005. International conference on water and health	SJCE, Mysore-04	22.01.05 to 23.01.2005

v. **Thesis adjudicator to:** i) Visvesvaraya Technological University, Belagavi. ii) Anna University, Tamilnadu iii) Bharathiar University, iv) Manipal Academy of Higher Education, Manipal.

vi. **Workshops / Conference (Organized)**

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Faculty development on “Recent Advances in Applied Chemistry and Nano Technology”	Department of Chemistry, JSS Academy of Technical Education, Bengaluru	26.03.2012 to 30.3.2012	Coordinator
2	National Science Fair-2022	Department of Chemistry, JSS Academy of Technical Education, Bengaluru	21.7.2022 to 23.7.2022	Coordinator/Convener

vii. **Workshops Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)**

Sl. No.	Name of the workshop / Conference	Organizer	Date
1.	STEM teacher training workshop on Research Based Pedagogical Tools	Centre of Excellence in Science and Mathematics Education (CoESME), Indian Institute of Science Education (IISER), Pune	23.10.2018 to 25.10.2018
2.	“Nanostructured Carbon Doped Nanocomposites”	IIT Kanpur	29.12.2014 to 02.01.2015
3.	Applications of solar energy and photovoltaics	IIT Delhi	12.12.2012 to 18.12.2012
4.	Faculty development Programme “ Current trends in organometallic chemistry”	National institute of Technology, Calicut	04.07.11 to 08.07. 2011
5.	UGC sponsored Orientation course for University and College teachers on “An integrated approach to knowledge and information” with the theme of ‘Research and Development in India: Current frontiers’	National Institute of Advanced studies Indian Institute of Science Campus, Bangalore-12.	10.02.05 to 02.03.2005

viii. **Text book: Engineering Chemistry for B.E. I/II semester (common to all branches) published by Sunstar Publisher, Bengaluru (April 2022)**

9. **Details of NPTEL / COURSERA courses completed**

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Chemicals and Health	COURSERA -Johns Hopkins University	23.10.2020	98.72%
2	Chemistry	COURSERA -University of Kentucky	16.11.2020	100%

3.	Online Refresher Course In Chemistry For Higher Education, 16 weeks	SWAYAM ARPIT ONLINE COURSE(NPTEL)	16.02.2020	A Grade
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ix. Invited talks delivered in Conference/FDP

Sl. No.	Name of the conference/FDP	Topic	Organized by	Date
1.	Seminar	An overview of FTIR spectroscopy: Instrumentation and its applications to molecular analysis	Department of Electronics and Instrumentation, JSS Academy of Technical Education, Bengaluru	09.7.22
2.	9 th International congress for Society for Ethnopharmacology	Acanthaceae family: Recent perspectives and futuristic strategy to medical applications	JSS College of Pharmacy, JSSAHER, Mysuru	22.4.22 to 24.4.22
3.	National Webinar	Bio-based sustainable polymer blends for medical applications	Saradava Vilas College, Mysuru	16.3.2022
4.	Online Elementary FDP on "3D Printing & Design - Materials, Solutions, & Applications	Polymers & Resins for Additive Manufacturing	AICTE Training and Learning (ATAL) Academy, JSS Academy of Technical Education, Bengaluru	06/12/2021 to 10/12/2021
5.	Webinar on advanced chemistry	Synthetic Bio-macromolecule for Bio-medical applications"	Basaveshwar Veerashaiva Vidya Vardhak Sangha (B.V.V.Sangha), Amruta Institute of Engineering and Management Sciences (AIeMS), in Bidadi	11.6.2021
6.	One week Faculty Development Program On "Functional Materials for Engineering Applications"	Synthetic bio-macromolecule for bio-medical applications	BMSCE, Bengaluru	15-19 th Feb 2021
7.	e- FDP on Recent trends in Material science	Synthetic Peptide-based materials for biomedical applications	Sapthagiri College of Engineering, Bengaluru	2-11 th Nov 2020
8.	Webinar on recent advances in Chemistry	Peptide-Based Functional Biomaterials for Biomedical Applications	SJBIT, Bengaluru	28.7.2020
9.	Online Faculty Development Programme on "Recent Advances in Smart Materials for Sensors and Energy Applications"	Peptide-based non-woven fabrics for biomedical applications	BMS Institute of Technology, Yelhanka, Bengaluru	6-10 th July 2020
10.	International Conference on Advanced Materials and Technology (ICMAT-20)	Generation of nanofibers from synthetic plastic-mimetic polypeptides and functionally similar polymers for biomedical applications	JSS S&T, Dept of polymer science and Technology, Mysuru	16 th -18 th January 2020,
11.	International conference on Advances in Material Research	Design and synthesis of blends of protein-based polymers: opportunities and challenges towards biomedical applications	Ramaiah University of Applied sciences, Bengaluru	25-27 th July 2019
12.	International Conference on Molecular Spectroscopy (ICMS 2017)	FTIR as a tool for the investigation of miscibility characteristics of elastin-based polymer blends	International Unit on Macromolecular Science and Engineering (IUMSE), Mahatma Gandhi University, Kottayam, Kerala	8-10 th Dec 2017
13.	7 th National conference on Novel polymer materials (POLYCON 2017)	An overview of blending of synthetic peptide-based macromolecules with other polymers for biomedical applications	JSS Science and Technology University Dept. of Polymer Science, SJCE, Mysuru	. 15 th – 16 th Sept. 2017

10. Membership of Professional Bodies:

1. Life Membership in Indian Society for Technical Education (MISTE)
2. Life Member-Indian Science Congress Association, Kolkata
3. Life Member- Indian Society of Analytical Scientists, Bangalore Chapter

11. Any other information you will like to share about your professional experience

In addition to the proficient teaching, an effort has been made to (i) Develop alternative biomaterials for tissue engineering applications and obtained a set of novel materials, and being examined for their efficacy in collaboration with JSS College of Pharmacy, and JSS Medical College, Mysuru. (ii) Development of electrochemical sensors for the identification of biologically vital and pharmaceutically significant molecules. (iii) The ethnobotanical approach has been used to find solutions for Diabetes mellitus. (iv) The synthesis of various metal oxides for their cytotoxicity via green route. Further, (iv) Explored Novel, simple, and specific analytical processes for the analysis of water and body fluids. (v) Intelligent food packaging materials. (vi) Delivered several plenary plus invited talks were in several conferences and faculty development programs to share the research findings and also to exchange ideas. (vii) The peptide-synthesis laboratory equipped with a state of the art facility for complete synthesis and potential analytical facilities from the Government and JSSMVP funding to cater the needs of budding researchers and project students.

Dr. Mahesh B
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