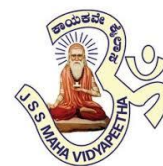




JSS Mahavidyapeetha
JSS Academy of Technical Education
Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060
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FACULTY PROFILE of Dr Mahesh B, Professor of Chemistry

1. Personal Details

NAME	Dr. Mahesh B	
DEPARTMENT	Chemistry	
DESIGNATION	Professor of Chemistry and Dean-Research	
PHONE	9448210363	
EMAIL ID	bmahesh@jssateb.ac.in , maheshb22@gmail.com	
Joining Date (JSSATEB)	28-10-2005	

2. Experience

Total Experience in Years	Teaching: 28 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

1. Service / Experience Details: 28 years
(In reverse Chronological Order)

a. Teaching Experience:

Sl. No.	From (mm/yy)	To (mm/yy)	No. of years	Degree or Diploma Institution	Designation	Name of the Institute
1	19.12.2022	Till date	3.6	Degree	Professor and Dean Research	JSSATE, Bangalore
2	06.7.2022	Till date	4.0	Degree	Professor	JSSATE, Bangalore
3	01.04.2011	05.7.2022	11	Degree	Associate Professor	JSSATE, Bangalore
4	28.10.2005	31.03.2011	6.5	Degree	Assistant Professor	JSSATE, Bangalore
5	On deputation for two consecutive years			Degree	Assistant Professor	Senior Lecturer

6	01.09.2005	27.10.2005	0.2	Degree	Lecturer	MSRIT, Bangalore
7	04.07.2000	20.08.2005	5.2	Degree	Senior Lecturer	JSSATE, Noida
8	01.07.1998	20.03.2000	1	Degree	Lecturer	JSS College for Women, Mysore
9	01.07.1998	02.07.2000	1	Degree	Visiting faculty	SJCE, Mysore
Total Experience			28 Years			

4. Research awards & Publications

i) Fellowship awarded / selected by the recognized professional bodies, organizations, Institutions

i) Invited to visit Nicolaus Copernicus University under the “Excellence Initiative-Research programme (IDUB) with an award in terms of fellowship for conducting a research internship at the Nicolaus Copernicus University in Torun, Poland (on the basis of Regulation No. 29 of the Rector of the Nicolaus Copernicus University in Torun, Poland, of March 9, 2020 on awarding NCU grants for research from abroad at the Nicolaus Copernicus University in Torun, to stay in Poland between 02.11.2025 and 03.12.2025.

ii) Awards

i) Awarded Bronze medal by Chirantana Rasayana Sanstha, Kolkata, India for excellent achievements in Research and Innovation on July 8, 2026, at Saurashtra University. Gujarat.

ii) Awarded a silver medal under the category "Healthy Society" for the project titled “Insights into the physicochemical characteristics and miscibility of chitosan/polypeptide blends: Promising material for wound healing in Sprague-Dawley rats” Inno Wings 2024 exhibition held on June 6-7, 2024, Centrum Innowacji Naukowo-Edukacyjnych ul. Agatowa 19/57, 20-571 Lublin (Poland).

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

iv) Invited to participate in the Sakura Science Exchange program entitled “Biomedical and bioengineering experimental skill workshop program” conducted at the Department of Cardiovascular Physiology, Faculty of Medicine, University of Miyazaki, Miyazaki 8891692, Japan. With sponsorship by Japan Science and Technology Agency (S2024F0500621 dated 22/7/2024), Japan.

v) Invited to visit Nicolaus Copernicus University under the “Excellence Initiative-Research programme (IDUB) with an award in terms of fellowship for conducting a research internship at the Nicolaus Copernicus University in Torun, Poland (on the basis of Regulation No. 29 of the Rector of the Nicolaus Copernicus University in Torun, Poland, of March 9, 2020 on awarding NCU grants for research from abroad at the Nicolaus Copernicus University in Torun, to stay in Poland between 02.11.2025 and 03.12.2025.

vi) “Best Research Paper Award” for the Research article entitled “A comprehensive evaluation of Hyaluronic acid (HA) multifaceted role in accelerating wound repair” at the International Conference on Polymers for Sustainable Development, (online) held at JSSATE Bengaluru in Association with Nicolaus Copernicus University, Poland

vii) Invited as visiting research scientist for three consecutive times by the Department of Chemistry of Biomaterials and Cosmetics, Faculty of Chemistry, Nicolaus Copernicus University in Torun, Poland, with an award in terms of fellowship for conducting a research internship at the Nicolaus Copernicus University in Torun, Poland (on the

basis of Regulation No. 29 of the Rector of the Nicolaus Copernicus University in Torun, Poland, of March 9, 2020 on awarding NCU grants for research from abroad at the Nicolaus Copernicus University in Torun, to stay in Poland between (i) 01.4.2023 and 30.4.2023, (ii) 02.10.2024 and 31.10.2024, and (iii) 03.11.2025 and 03.12.2025 viii) Research Fellow from 18.9.2025 to 31.12.2028, INTI International University, Malaysia

Papers Published in Web of Science indexed Journals	International: 63	National: 01
Papers Published in SCOPUS indexed Journals	International: 63	National: 1
Papers Published in other Journals	International: 3	National: 01
Papers Presented in Conferences / Symposium	International: 44	National: 11
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, 5 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: 03 (Three) Guiding: 04	Projects at master's Level: 1(M.Phil) Projects at bachelor's Level: -2

6. Grants

i. Funds Received (Projects)-03

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
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ii. **Patents: 2**

1. 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)-Granted on 11.3.2025

2. Editable printing Technology: Smart printer for documents editing (Indian Patent Application No. 202441051953. Electronics division filed on 07.7.2024) and published on 06.9.2024

iii. **Research students guiding/awarded for their Ph.D. degree-10**

Name of the Research scholar	Title of the research work	Month & Year of Regn.	USN Visvesvaraya Technological University, Belagavi	Status
Nanjunda Swamy G S	Synthesis, characterization and miscibility studies of some selected peptides with other polymers.	March 2015	1JS15PGJ04	Awarded (January 2020)
Kathyayani D	Synthesis and characterization of polypeptides: Examination on the miscibility of their blends with commercially available polymers for therapeutic applications	November 2015	1JS16PGJ02	Awarded (November 2023)
Kokila N R	Phytochemical investigation and pharmacological screening of selected medicinal plants.	December 2014	1JS15PGJ03	Awarded (September 2024)
Lokesh H R	“Design and synthesis of polypeptides: A study on physiochemical characteristics of their blends with commercially available polymers for wound therapeutic applications”	November 2015	1JS16PGJ03	Re-Registered/ Comprehensive completed
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 Viva completed
Asha S C	Development of Smart Packaging Materials	December 2021	1JS20PCY01	Comprehensive Viva completed
Bhimashankar B Molkere	Greener Synthesis of Semicarbazoles, Oxadiazoles and Triazoles	Transferred from PES to JSSATE on 25.11.25	1PI16PGJ06	Comprehensive Viva completed
Roopini Y S	A Study on Vitamin Deficiency and the Optimization of Herbal Supplement Use in Patients with Hypertension and Diabetes	December 2025, ETR ID: 018844)	Awaited	ETR-Cleared
B. Lingappa	Evaluation of Synthetic Colors in the processed foods and development of suitable natural color formulation	October 2024	10CC24A08003 (CFTRI-Mysuru)	Comprehensive Viva completed

Name of the Research scholar	Title of the research work	Month & Year of Regn.	USN Visvesvaraya Technological University, Belagavi	Status
Tuba	Fabrication of New Materials Based on Polymers and Peptides for Potential Biomedical Applications	October 2025	Nicolaus Copernicus University in Torun, Poland	Newly joined

Research students awarded M. Phil degree-1

Name of the Research scholar	Title of the research work	Month & Year of Regn.	University	Status
Kumara Swamy N	Enzymatic degradation of pulp and paper mill effluent	October 2008	Vinayaka Mission University, Salem, Tamil Nadu	Awarded

Publications

i. International Journals-64

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	Surface area and composition-engineered CoFe ₂ O ₄ /g-C ₃ N ₄ hybrid electrodes for high-performance supercapacitors	Divakara; K. P., Shwetha; B., Mahesh ; K. A., Vishnumurthy	Science and Technology of Advanced Materials	Article: 2700203, https://doi.org/10.1080/14686996.2026.2700203	Both	6.49	Traylor & Francis
2	Thermodynamic Insights into Sodium Chloride–Procainamide Hydrochloride Interactions in Aqueous Solutions: Volumetric and Compressibility Studies	Ankita S Chandak, B Mahesh , Sangesh P Zodape	Journal of the Indian Chemical Society	Article: 102899, 2026, 102899, ISSN 0019-4522, https://doi.org/10.1016/j.jics.2026.102899 .	Both	4.19	Elsevier
3	Unveiling enhanced UV-shielding and Photoluminescence Behaviour in Co ₂ SnO ₄ @GO nanojunction-reinforced PVA nanocomposites.	Kavya Srikantamurthy, Veda Bandigowdanahalli Prabhuswamy, Chandana Naik, Bharath Kumar Sobandhar Prakash, Madhukar Beejaganahalli Sangameshwar, Mahesh	Polymers for Advanced Technologies	37(7), 2026, DOI: 10.1002/pat.70665	Both	3.69	Wiley

		Basavaraju, Prasanna Doddakunche Shivaramu, Kumara Swamy Ningappa.					
4	Pectin-ester as sustained release targeted delivery of curcumin: synthesis, characterization and in-vitro simulation studies	Nitika Mor, Anjaneyulu Bendi, B. Mahesh & Neera Raghav	Discover Chemistry	3, 240 (2026). https://doi.org/10.1007/s44371-026-00691-9	-	-	Springer-Nature
5	Bio-inspired synthesis of sea urchin-like hierarchical BaO nanostructures using Ocimum sanctum for enhanced UV-driven photocatalytic dye degradation and electrochemical sensing	S. C. Asha, Roopashree B, Mahesh B , S. G. Divakara, Chamaraja N A,C. R. Ravikumar, Sangesh P. Zodape, Kumara Swamy N, Ling Shing Wong and Sharanakumar T.M.	International Journal of Environment al Analytical Chemistry	1–25. https://doi.org/10.1080/03067319.2026.2638550	Both	3.81	Taylor & Francis
6	Honey-assisted synthesis of CuFe2O4 nano pebbles: a sustainable approach to photocatalytic and antibacterial activity	Divakara, S. G., Jayanna, B. K., Mahesh, B. , Anil Kumar, H. G., Manjunath Reddy, A. H., & Nalina Narasimhaswamy.	Journal of Experimental Nanoscience	Volume 21, 2026 - Issue 1, Article 2630356. https://doi.org/10.1080/17458080.2026.2630356	Both	3.326	Taylor & Francis
7	Synthesis of Polypentapeptide of tropoelastin and exploration of its blends with polyvinyl alcohol for the inhibition of α -Amylase and α -Glucosidase	Lokesh H R, Mahesh B , Sangesh P. Zodape, Rekha N D, Channe Gowda D, and Alina Sionkowska	Journal of Polymers and the Environment	34(24), 2026, https://doi.org/10.1007/s10924-025-03760-9	Both	5.3	Springer-Nature
8	Sensitive electrochemical detection based on neodymium-doped indium oxide for determination of 4-aminophenol in wastewater containing pharmaceutical residues	Yu-Jui Fan Bhuvan Lokesh Marenahalli, Kumara Swamy Ningappa, Sanjay Ballur Prasanna, Varshini Shivakumar, Madhukar Beejaganahalli Sangameshwara,	Microchemic al Journal	2026, Volume 222, 117204, ISSN 0026- 265X, https://doi.org/10.1016/j.microc.2026.117204 .	Both	5.40	Elsevier

		Mahesh Basavaraju, Vedhavathi Hattna Shivarudraiah					
9	Isolation and Characterization of Phenolic Derivative (Flavonoid) from <i>Crassocephalum crepidioides</i> with Antiangiogenic, Anti-inflammatory and Antioxidant Activities	Naziya Habeeb M, N Vijendra Kumar, Mahesh B , Rashmi Ramesh, N D Rekha	International Journal of Pharmaceutical Sciences and Drug Research ISSN: 0975-248X	2026;18(1):28-36. DOI: 10.25004/IJPSD R.2026.180103	UGC-CARE	-	MRI Publication Pvt. Ltd. (OPC), Lucknow, India
10	Development of a PVDF-CoFe ₂ O ₄ Electrocatalyst Modified Pencil Graphite Electrode for Nanomolar-level Detection of 4-Aminophenol in Tablets Contaminated Pharmaceutical Wastewater Samples	Varshini Shivakumar, Kumara Swamy Ningappa, Bhuvan Lokesh, Marenahalli, Vedhavathi Hattna Shivarudraiah, Mahesh Basavaraju, Chamaraja Nelligere Arkeswaraiah, Sanjay Ballur Prasanna & Yu-Jui Fan	<i>Electrocatalysis</i>	2025. https://doi.org/10.1007/s12678-025-00999-7	Both	2.77	Springer-Nature
11	Rapid and selective electrochemical determination of doxycycline in human urine samples using a 2-dimensional Cu ₂ WS ₄ nanosheet decorated polypyrrole nanotube electrocatalyst-modified pencil graphite electrode	Kavya Rajanna,, Kumara Swamy Ningappa, Vedhavathi Hattna Shivarudraiah,, Yashas Shivamurthy Ravindra, Mahesh Basavaraju , Chamaraja Nelligere Arkeswaraiah, Sanjay Ballur Prasanna, Ren-Jei Chung	Inorganic Chemistry Communications	2025, 115980, ISSN 1387-7003, https://doi.org/10.1016/j.inoche.2025.115980 .	Both	5.55	Elsevier
12	Photocatalytic degradation of crystal violet dye using honey mediated synthesis of NiFe ₂ O ₄ nanoparticles	SG Divakara, B Mahesh , BK Jayanna, HG Anil Kumar	Green Chemistry Letters and Reviews	18(1), 2543931, 2025	Both	5.62	Taylor & Francis

13	Enhanced Optical and UV Shielding performance of CoFe ₂ O ₄ @GONDS Embedded PVA nanocomposites	Veda Bandigowdanahalli Prabhushwamy, Kumara Swamy Ningappa, Madhukar Beejaganahalli Sangameshwar, Bharath Kumar Sobandhar Prakash, Kavya Rajanna, Mahesh Basavaraju , Sangamesha Madanahalli Ankanathappa	Polymer	339, 129137, 2025 https://doi.org/10.1016/j.polymer.2025.129137	Both	4.65	Elsevier
14	Identification and 3D modeling of bioactive peptides from Lactobacillus brevis RAMULAB49 protein hydrolysate within silico ERK1 phosphorylation inhibition activity targeting diabetic nephropathy	Reshma Mary Martiz, Ramith Ramu, Hemalatha Nambisan, Ameer Suhail, Mohammad Raish, Shashank M Patil, P Ashwini, B Mahesh , Maciej Przybyłek, Piotr Beldowski, Alina Sionkowska, and Kefeng Li	PLOS ONE	e0331192. https://doi.org/10.1371/journal.pone.0331192 . 2025	Both	2.6	Public Library of Science (PLOS)
15	Examination of physicochemical characteristics of blends of synthetic elastin-mimetic polypentapeptide with Chitosan: Inhibitory potential on pancreatic α -amylase	H.R. Lokesh, D. Kathyayani, B. Mahesh , P. Suhas, C.S. Mahadeva Prasad, N.D. Rekha, Alina Sionkowska, D. Channe Gowda, Tomasz Klepka	Materials Chemistry and Physics	348, Part 1, 2026, 131529, ISSN 0254-0584, https://doi.org/10.1016/j.matchemphys.2025.131529 .	Both	4.7	Elsevier
16	Improved electromagnetic shielding, optical, electrical and structural, behaviour of Poly(methylmethacrylate) composites with an Iron(III) benzimidazole complex	Preethi Ganesh, Mahesh B , Roopashree B, Daruka Prasad B, Revanasiddappa M, Gayathri V,	Solid State Communications	Volume 405, 2025, 116136, https://doi.org/10.1016/j.ssc.2025.116136 .	Both	2.4	Elsevier

15	Combined In vitro and <i>In silico</i> Approach to Define Alangimarckine from <i>Thunbergia mysorensis</i> Leaves as a Potential Inhibitor of α -Glucosidase	N.R. Kokila, B. Mahesh , Ramith Ramu, S .G Divakara, K. Mruthunjaya, Neera Raghav and Thippeswamy Boreddy Shivanandappa	Journal of Biomolecular Structure & Dynamics	1–20. 2025, https://doi.org/10.1080/07391102.2025.2472396	Both	4.4	Taylor & Francis
16	Synergistic approaches in natural and synthetic polymer blends for biomedical applications-A review	P. Suhas, B. Mahesh , S.G. Divakara, G.S. Nanjundaswamy , C.S. Mahadeva Prasad, Alina Sionkowska, Ketul C. Popat, & D. Channe Gowda	European Polymer Journal	Vol.236, 2025. 114161, ISSN 0014-3057, https://doi.org/10.1016/j.eurpolymj.2025.114161	Both	6.3	Elsevier
17	Thermodynamic and compressibility studies of Naphazoline Hydrochloride drug in Aqueous and Aqueous L-Valine Solutions: Insights in to Molecular Interactions and Solvation Behavior	Vandana Shende, Mahesh B , Vandana Patel, Ratiram Chaudhary, Sangesh P Zodape	Journal of Chemical & Engineering Data	Vol. 70(8), 3123–3139, 2025, DOI:10.1021/acs.jced.5c00200	Both	2.12	ACS
18	Volumetric and Compressibility Studies of Antimycobacterial Drug in Aqueous and Aqueous d-Glucose Solutions at Various Temperatures	Vandana S. Shende, Anuja Jain, Mahesh B , Sangesh P. Zodape	Journal of Chemical & Engineering Data	J. Chem. Eng. Data 2025, 70, 5, 1918–1929Click to copy citation https://doi.org/10.1021/acs.jced.4c00742	Both	2.12	ACS
19	Evaluation of peroxidase mimetic properties of cobalt ferrite (CoFe ₂ O ₄) nanoparticles and their applications in the assay of aminophenols in water samples	Nelligere Arkeswaraiah Chamaraja, Ningappa Kumara Swamy, Varshini Shivakumar, H. V. Kavya & Mahesh Basavaraju	Nanotechnol. Environ. Eng.	https://doi.org/10.1007/s41204-025-00413-z 10, 15 (2025)	Scopus	3.60	Springer nature
20	Cytotoxic, antimicrobial, and Angiogenesis inhibition activity of novel Cobalt(II) complexes of substituted benzimidazole: Molecular docking	Roopashree B, Mahesh B , Ramith Ramu, Rekha N D, Dithu	Journal of Molecular Structure	https://doi.org/10.1016/j.molstruc.2024.141141 . 141141, ISSN 0022-2860,	Both	4.0	Elsevier

	simulation and Inhibition kinetics	Thekkekkara, Gayathri V		2025,			
21	Improved photocatalytic activity triggered by UV light, as well as electrochemical sensing characteristics of MgO nanoparticles	Asha, S. C., Divakara, S. G., Mahesh, B. , Ravikumar, C. R., & Murthy, H. C. A.	Journal of Environmental Analytical Chemistry	1–20. https://doi.org/10.1080/03067319.2024.2415528 , 2024	Both	2.6	Taylor & Francis
22	Green Synthesis of Calcium Oxide Nanoparticles using Ocimum sanctum leaves extracts: Photocatalytic and electrochemical sensor applications	S C Asha; B Mahesh ; C R Ravikumar; N A Chamaraja; Anand Murthy	Journal of Materials Science: Materials in Electronics	2024, DOI : 10.1007/s10854-024-13374-x	Both	2.75	Springer nature
23	Insights into the Physicochemical Characteristics and Miscibility of Chitosan/Polypeptide Blends: Promising Material for Wound Healing in Sprague–Dawley Rats	Kathyayani D, Mahesh B , Channe Gowda D, Alina Sionkowska, Manjula S N, Veeranna S, Silvia Vicini	ACS Biomaterials Science & Engineering	Vol.10, Issue 9, pp 5807–5821, 2024	Both	5.4	ACS
24	A review on synthetic polypeptide-based blends with other polymers: Emerging trends and advances	Nanjundaswamy Gumatapura Siddamallappa, Mahesh Basavaraju , Alina Sionkowska, Channe Gowda Dase Gowda	European Polymer Journal	Volume 215, 113225, 2024	Both	5.8	Elsevier
25	A comprehensive review on current trends in greener and sustainable synthesis of ferrite nanoparticles and their promising applications	Divakara S G & Mahesh B	Results in Engineering	Volume 21, 2024, 101702, ISSN 2590-1230, https://doi.org/10.1016/j.rineng.2023.101702 .	Both	5.0	Elsevier
26	Rapid Electrochemical Investigation of Gemfibrozil Using NiONPs/Multiwalled Carbon Nanotube Modified Carbon Paste Electrode: Analysis of Human Urine Sample and Antimicrobial Activity	Siddegowda.K.S , Mahesh B , Chamaraja N A, Roopa K P, Kumara Swamy N, Divakar S G, and Jayarame Gowda	Chemistry select	8, no. 48 (2023): e202302407.	Both	2.32	Wiley-VCH GmbH, Weinheim Chemistry Europe journal

27	An insight into the cytotoxic, antimicrobial, antioxidant, and biocontrol perspective of novel Iron(III) complexes of substituted benzimidazoles: Inhibition kinetics and molecular simulations	B. Roopashree, B. Mahesh , Ramith Ramu, N. D. Rekha, S. N. Manjula, G. Preethi & V. Gayathri	Journal of Biomolecular Structure and Dynamics	2023, DOI: 10.1080/07391102.2023.2263569	Both	4.4	Taylor & Francis
28	Investigation of miscibility and physicochemical properties of synthetic polypeptide with collagen blends and their wound healing characteristics	D. Kathyayani, B. Mahesh , D. Channe Gowda, Alina Sionkowska, S. Veeranna	International Journal of Biological Macromolecules	Volume 246, 2023, 125704. DOI: 10.1016/j.ijbiomac.2023.125704	Both	8.2	Elsevier
29	A Comprehensive Review on Cardiospermum halicacabum"	Aathira P Suresh, Nallupillai Paramakrishnan, Mahesh Basavaraju , K. Mruthunjaya	Journal of Natural Remedies	Accepted on 24 April 2023 Volume 23, Issue 2, April 2023	Both	0.4	Informatics Journals
30	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
31	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 DOI: 10.1080/07391102.2023.2190408	Both	5.235	Taylor & Francis
32	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
33	Determination of vardenafil in pure and dosage forms by spectrophotometry	K. P. Roopa, 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

34	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
35	Synthesis and structural characterization of elastin-based polypentapeptide/hydroxy propylmethylcellulose blend films: Assessment of miscibility, thermal stability and surface characteristics.	D.Kathyayani 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
36	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
37	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
38	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
39	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
40	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.	Applied Surface Science Advances	2022, Vol. 7, Pages 100203, DOI: https://doi.org/10.1016/j.apsadv.2021.100203	Both	6.6	Elsevier

		Ramakrishna; B. Mahesh ; Sunanda Damini					
41	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
42	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 Electrochemical Science and Engineering (ISSN 1847-9286)	2021, Page No.1-12 http://dx.doi.org/10.5599/jese.1112	Both	1.64	IAPC Publishing, Croatia
43	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
44	Green synthesis of silver nanoparticles using cow urine: Antimicrobial and blood biocompatibility studies.	A.S.Santhosh S.Sandeep H.M.Manukumara B.Mahesh N.Kumara Swamy	JCIS Open	Vol. 3, October 2021, https://doi.org/10.1016/j.jciso.2021.100023	Scopus	-	Elsevier
45	Antimicrobial, Haemolytic and Antibiofilm Assay of Green Synthesized Silver Nanoparticles by Aqueous Extracts of Rubia cordifolia.	Surendra Doddarasinakere Mariswamy; Chandrashekar Kagepura Thimmaiah; Vasantha Kumar Basappachidanda. Mahesh Basavaraju; Chamaraja Nelligere Arkeswaraiah	Int. J. Pharm. Sci. Rev. Res.,	2021, 67(2), 174-184, http://dx.doi.org/10.47583/ijpsrr.2021.v67i02.028	-	-	www.globalresearchonline.net

46	Colorimetric detection of chromium (VI) using peroxidase mimetic IONPs with 4-aminoantipyrine 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
47	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
48	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
49	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
50	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
51	Zinc oxide Nanoparticles Supported on Multi-Walled Carbon Nanotube Modified Electrode for Electrochemical Sensing	Siddegowda K.S. Mahesh B Chamaraja NA Roopashree B. Kumara swamy N,	<i>Electroanalysis</i>	32,1–11,(2020) DOI: https://doi.org/10.1002/elan.202000010	Both	3.077	Wiley USA

	of a Fluoroquinolone Drug.	Nanjundaswamy G.S,					
52	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
53	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
54	Miscibility studies of plastic-mimetic polypeptide with hydroxypropyl methylcellulose 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
55	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
56	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
57	Elastin-based polymer: synthesis, characterization and examination of its miscibility characteristics with poly(vinyl alcohol) and electrospinning of the miscible blends.	Nanjundaswamy Gumatapura Siddamallappa, Mahesh Basavaraju , Channe Gowda Dase Gowda	<i>Polymer International</i>	67,11, (2018) doi:10.1002/pi.5669	Both	3.213	Wiley Online Libraray, USA

58	Synthesis and evaluation of interaction parameters of synthetic elastin-derived polypentapeptide with poly(vinylpyrrolidone) in solution and solid phase.	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
59	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
60	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
61	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
62	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
63	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-02

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	Channe Gowda, D. Mahesh B, Gowda, S.	<i>Indian Journal of Chemistry - Section B Organic and</i>	40, 75-77,(2001)	WOS	0.456	CSIR-NISCAIR

	aromatic nitro compounds.		<i>Medicinal Chemistry</i>				
2.	Green Synthesis, Characterization 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-55

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Innovative Synthetic Polypeptide–Polymer Blends: From Molecular Design to Biomedical Applications	Mahesh B	Rasayan 23 Conducted by Chirantana Rasayana Sanstha - International Symposium on “Science Beyond Boundary: Invention, Discovery, Innovation and Society	8-10 July 2026	-	-	Saurashtra University Munjka, Rajkot, Gujarat, India 360 005
2	Synthetic Polypeptide–Polymer Hybrid Materials: Enabling Biomedical, Innovation through Molecular Design and Functional Performance	Mahesh B	National Symposium on Advanced Materials for Health, Energy, and Environment (AMHEE-2026)	29-30 June 2026	-	-	Department of Chemistry, JSS Science and Technology University, Mysuru
3	Eco-Friendly Synthesis of Heterocycles with Ultrasonication and Their Agrochemical Potential	Bhimashankar B Molkere, Mahesh B	National conference on Advanced Materials for Energy, Environment and Biomedical Applications [Ameeba-2026]	Abst. No.49, 22 & 23 MAY 2026	-	-	Department of Chemistry JSSATE-B In association with Electrochemical Society of India (ECSI) Indian Institute of Science Campus, Bengaluru
4	Synthetic Polypeptide–Polymer Blends: Design and Biomedical Applications	Mahesh B	one-day national conference on Current Research and Innovations in Chemical Sciences	17 April 2026	-	-	Dept. of Chemistry, JSS College for Women, Mysuru

5	Comparative Investigation of Fe(II)- and Zn(II)-Incorporated PMMA Schiff Base Composites: Structural, Optical, and EMI Shielding Properties	Preethi G, Roopashree, Mahesh B, , Daruka Prasad B	National conference on Advanced Materials for Energy, Environment and Biomedical Applications [Ameeba-2026]	Abst. No.56, 22 & 23 MAY 2026	-	-	Department of Chemistry JSSATE-B In association with Electrochemical Society of India (ECSI) Indian Institute of Science Campus, Bengaluru
6	Bio-inspired synthesis of sea urchin-like hierarchical BaO nanostructures using Ocimum sanctum for enhanced UV driven photocatalytic dye degradation and electrochemical sensing	Asha S C , Roopashree B , Mahesh B, Divakara S G, Kumara Swamy N, Chamaraja N A, Sangesh P Zodape, Ramith Ramu and Ling Shing Wong	National conference on Advanced Materials for Energy, Environment and Biomedical Applications [Ameeba-2026]	Abst. No.62, 22 & 23 MAY 2026	-	-	Department of Chemistry JSSATE-B In association with Electrochemical Society of India (ECSI) Indian Institute of Science Campus, Bengaluru
7	Honey-Assisted Ecofriendly Synthesis of Lithium Ferrite Nanoparticles	Divakara S. G. Mahesh B	National conference on Advanced Materials for Energy, Environment and Biomedical Applications [Ameeba-2026]	Abst. No.69, 22 & 23 MAY 2026	-	-	Department of Chemistry JSSATE-B In association with Electrochemical Society of India (ECSI) Indian Institute of Science Campus, Bengaluru
8	Rapid electrochemical investigation of Ofloxacin using NiONP/Graphene modified carbon paste electrode: Analysis of human urine sample	Siddegowda .K.S, Mahesh B, Chamaraja N A, Roopa K P, Kumara Swamy N, Divakar S G,and	National conference on Advanced Materials for Energy, Environment and Biomedical Applications [Ameeba-2026]	Abst. No.79, 22 & 23 MAY 2026	-	-	Department of Chemistry JSSATE-B In association with Electrochemical Society of India (ECSI) Indian Institute of

		Jayaram Gowda					Science Campus, Bengaluru
9	An examination of miscibility and physicochemical characteristics in relation to the interaction of a synthetic peptide polymer with polyvinyl alcohol (PVA)	Lokesh H R, Mahesh B, Channe Gowda D and Alina Sionkowska	National conference on Advanced Materials for Energy, Environment and Biomedical Applications [Ameeba-2026]	Abst. No.89, 22 & 23 MAY 2026	-	-	Department of Chemistry JSSATE-B In association with Electrochemical Society of India (ECSI) Indian Institute of Science Campus, Bengaluru
10	Iron(III)–Schiff base–Polymer Composite for High-Performance optoelectronic Applications.	Preethi G, Mahesh B , Roopashree B	DAE-BRNS 4th Symposium on Current Trends in Analytical Chemistry (CTAC-2026)	January 21-24, 2026, at DAE Convention Centre/Multi purpose Hall, TSH, Anushaktinagar, Mumbai - 400094.	-	-	Analytical Chemistry Division, Bhabha Atomic Research Centre (BARC), Trombay, Mumbai, India, Board of Research in Nuclear Sciences (BRNS) and the Department of Atomic Energy (DAE)
11	Design and Development of Synthetic Polypeptides and Polymers Hybrids: Trends and Advances in Biomedical Applications	Mahesh B	Global Scientific Congress Conducted by ACS	8-10 October 2025 <i>Invited talk and Chair</i>	-	-	GSC-ACS-IIT Mumbai
12	A comprehensive evaluation of Hyaluronic acid (HA) multifaceted role in accelerating wound repair	Suhas P, Mahesh B , and Alina Sionkowska	<i>International Conference on polymers for sustainable development</i>	Feb 7, 2025.	-	-	JSS ATE Bengaluru and NCU, Poland
13	Wound healing properties of	C S Mahadeva	<i>International Conference on</i>	Feb 7, 2025.	-	-	JSS ATE Bengaluru

	polymer-herbal medicine blends	Prasad, Mahesh B , and Alina Sionkowska	<i>polymers for sustainable development</i>				and NCU, Poland
14	An examination of miscibility and physicochemical characteristics in relation to the interaction of a synthetic peptide polymer with polyvinyl alcohol (PVA)	Lokesh H R, Mahesh B , Channe Gowda D and Alina Sionkowska	<i>International Conference on polymers for sustainable development</i>	Feb 7, 2025.	-	-	JSS ATE Bengaluru and NCU, Poland
15	Assessment of miscibility characteristics of the synthetic elastin-mimetic polypeptide with polyvinyl alcohol in solution phase	Shreya B.T., Mahesh B , Channe Gowda D and Alina Sionkowska	<i>International Conference on polymers for sustainable development</i>	Feb 7, 2025.	-	-	JSS ATE Bengaluru and NCU, Poland
16	Understanding optical characteristics: Schiff's Base PMMA Polymer Composites of Zinc Chloride	Preethi G, Roopashree B, Mahesh B , Daruka Prasad B, Revanasidda ppa M	<i>International Conference on polymers for sustainable development</i>	Feb 7, 2025.	-	-	JSS ATE Bengaluru and NCU, Poland
17	Fabrication of PVA/rGO@Cu ₂ NiSn S ₄ based sensor for ECG data acquisition	Bharath Kumar S P, Manoj Kumar M, Anitha Prasad S, Mahesh B , & Kumar Swamy N	<i>International Conference on polymers for sustainable development</i>	Feb 7, 2025.	-	-	JSS ATE Bengaluru and NCU, Poland
18	Rapid electrochemical investigation of Ofloxacin using NiONPs/Multiwalled carbon nanotube modified carbon paste electrode: Analysis of human urine sample	Siddegowda .K.S, and Mahesh B	<i>International Conference on polymers for sustainable development</i>	Feb 7, 2025.	-	-	JSS ATE Bengaluru and NCU, Poland
19	An insight into synthetic polypeptide-based blends with other	Mahesh B	18 th International Congress on Thermal Analysis and Calorimetry	Invited Speaker 1-7, September	-	-	IIT Madras Chennai

	polymers: Emerging trends and advances			2024, Page 86.			
20	Design and synthesis of elastin-mimic sequences of polypeptides: Therapeutic applications of their blends with commercially available polymers	Mahesh B	Two days seminar on recent advances in chemistry and nanomaterials.	Invited speaker 05-06 August 2024	-	-	Department of applied Sciences Visvesvaraya Technological University, Muddenahalli campus, Bengaluru
21	Fabrication of protein-based polymer blends with commercially known polymers: Prospects and challenges to biomedical applications	Mahesh B	International Conference on Green Chemistry Solutions for a Sustainable Future	Keynote address 20-22 Sept 2023	-	-	GITAM School of Science GITAM (Deemed to be University), Bengaluru Campus Bengaluru Rural District - 562163 Karnataka
22	An overview of biomaterials of synthetic modified polypeptides with naturally available polymers: Study on interaction parameters	Mahesh B	108 th ISCA conference, Rashtrasant Tukadoji Maharaj Nagpur University, formerly Nagpur University	Invited talk (2023) Jan 4 to Jan 6, 2023	-	-	Rashtrasant Tukadoji Maharaj Nagpur University, formerly Nagpur University
23	Acanthaceae family: Recent perspectives and futuristic strategy to medical applications.	Mahesh B	9th International Congress for Society for Ethnopharmacology	Invited Talk, April 22-24 2022	-	-	JSS College of Pharmacy Conference proceedings
24	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
25	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	Invited Talk, 2, 76-77, (2020)	-	-	ICMAT, Dept of PS&T, JSS S&T University, Mysuru-proceedings.
26	Development of Metal oxide	Siddegowda K S,	Second International	2, 174-175, (2020)	-	-	ICMAT, Dept of

	nanoparticles and multiwalled carbon nanotube modified carbon paste electrochemical sensor for Moxifloxacin.	Mahesh B Chamaraja N A, Roopashree B, and Kumara Swamy N	<i>conference on Material science and Technology</i>				PS&T, JSS S&T University, Mysuru-proceedings.
27	Antioxidant activity of novel Schiff base Iron(III) complex of substituted benzimidazole.	Roopashree B, Mahesh B , Preethi G, Gayathri V	<i>Second International conference on Material science and Technology</i>	2, 250-251, (2020)	-	-	ICMAT, Dept of PS&T, JSS S&T University, Mysuru-proceedings.
28	Quantitative Analysis of Intermolecular Interactions of PLPs with PVA Blends.	Kathyayani, D, Mahesh B , and Channe Gowda, D	<i>Second International conference on Material science and Technology</i>	2, 216-217, (2020)	-	-	ICMAT, Dept of PS&T, JSS S&T University, Mysuru-proceedings.
29	Organic transformations using catalytic transfer hydrogenation with metal nanoparticles as catalysts-Review.	Usharani, Mahesh B , Nanjundaswamy GS, and Channe gowda D	<i>International conference on advanced materials and nanotechnology</i>	1, 2 (2020)	-	-	Jaypee Institute of Information Technology, Noida (INDIA) - proceedings
30	Design and synthesis of blends of protein-based polymers: opportunities and challenges towards biomedical applications.	Mahesh B	<i>International conference on Advances in Materials Research (ICMAR-2019)</i>	Plenary Talk (2019)	-	-	M S Ramaiah University of Applied sciences, Bengaluru-proceedings
31	Synthesis and Miscibility Characteristics of Peptide-based Polymer Blends with Commercially Available Polymer.	Rajeshwari, P.R. Kathyayani, D.Channe Gowda, D and Mahesh B	<i>International conference on Advances in Materials Research (ICMAR-2019)</i>	(2019)	-	-	M S Ramaiah University of Applied sciences, Bengaluru-proceedings
32	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	<i>International conference on Advances in Materials Research (ICMAR-2019)</i>	(2019)	-	-	M S Ramaiah University of Applied Sciences, Bengaluru-proceedings.
33	Plastic-derived polypentapeptides: Synthesis and	Kathyayani D, Nanjundasw	3rd international conference on Recent advances	106 (2019)	-	-	SRM University,

	investigation of physicochemical characteristics of miscible blends in solution phase method.	amy GS, B. Mahesh and Channe Gowda D	in material chemistry				Chennai-proceedings
34	Synthesis and characterization of protein-based plastic polypentapeptide; 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
35	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
36	Study on the miscibility characteristics of synthetic polypeptide blends with a commercially available polymer for biomedical applications.	B. Mahesh , Nanjundasw amy 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
37	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 Technolgy, JSS Science and Technology University, Mysuru. Sept 15-16, 2017. (INVITED TALK)	33, 2017	-	-	Dept of Polymer Science and Technolgy, JSS Science and Technology University, Mysuru. - proceedings
38	Exploration of miscibility behavior of elastin-based	B. Mahesh , Nanjundasw amy G S,	Polycon 2017, 7 th National	4, 2017	-	-	Dept of Polymer Science and

	polypeptide with a commercially available polymer.	Channe Gowda D, Divakar S G & Swamy D R	Conference on Novel materials, Dept of Polymer Science and Technology, JSS Science and Technology University, Mysuru. Sept 15-16, 2017.				Technology, JSS Science and Technology University, Mysuru-proceedings
39	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
40	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, Dehradun-proceedings
41	Miscibility study on synthetic elastin-based polypeptide with a commercially available polymer.	B. Mahesh , G.S. Nanjunda swamy, 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
42	An insight into the blends of synthetic peptides with other polymers-A review.	B. Mahesh Nanjundaswamy G S	<i>International conference on Material Science and Technology</i> 26 th	143,2016	-	-	ICMAT-16 proceedings

		D C Gowda, Siddaramaiah	to 28 th of May 2016				
43	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 Dec 26-28, 2015</i>	3,2015	-	-	<i>ICC XXXIV annual Conference proceedings</i>
44	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 Dec 29-31, 2014</i>	3, 2014	-	-	<i>PG Department of Chemistry JSS College of Arts, Commerce & Science, Ooty Road, Mysuru - 570 025, India-proceedings</i>
45	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 Dec 29-31, 2014</i>	4, 2014	-	-	<i>PG Department of Chemistry JSS College of Arts, Commerce & Science, Ooty Road, Mysuru - 570 025, India-proceedings</i>
46	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>
47	DNA binding and cleavage activity of new (2 <i>E</i>)-2-[(2-butyl-4-chloro-1 <i>H</i> -imidazol-5-yl)methylidene]- <i>N</i> -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>
48	Miscibility behaviour of PVA/Poly(GVGVP) blends by viscometry,	B. Mahesh , D C Gowda,	Asian Polymer association-2013	2013	-	-	Asian Polymer association,

	ultrasonic velocity, Refractive index, density and morphological analysis.	Siddaramaiah	Panjab university, Chandigarh, Polymers on the frontiers of Science and Technology, FEB 21-23, 2013.				APA-2013-proceedings
49	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
50	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
51	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
52	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
53	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 Visveswaraiah Chair, Mysore 28-30 OCT- 1999	20, 1999	-	-	DOS in Chemistry, University of Mysore Under the auspices of Sir M Visvesvaraya Chair, Mysore-proceedings

54	Catalytic Transfer of 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
55	Design and Development of Synthetic Polypeptides and Polymers Hybrids: Trends and Advances in Biomedical Applications	Mahesh B	Global Scientific Congress Conducted by ACS	8-10 October 2025 <i>Invited talk and Chair</i>	-	-	GSC-ACS-IIT Mumbai

i. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1.	One-day workshop on Orientation Program for attracting sponsored Research Funding for faculty of VTU-affiliated institutions	VTU Rand D division conducted at RVCE Bengaluru	27.2.2024
2.	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
3.	A Three-day workshop on Emerging Trends in Applied Sciences	Dept. of Basic Science, SJBIT, Bangalore	22.1.18 – 24.01.2018
4.	Accreditation process for technical institutions	JSSATE, Bengaluru	26.8.2016 to 27.8.2016
5.	Indian Society of Analytical Scientists	Atomic Minerals Directorate for Exploration and Research, Bangalore	15/7/2015
6.	Modern trends in Chemical research and their applications	NMAMIT, NITTE	10.7.2014 to 11.7.2014
7.	VTU-VGST Faculty Development Program on “Recent trends in Applied Chemistry and Nanotechnology.”	26-30 March 2012	Chemistry Dept, JSSATE, Bengaluru
8.	International conference on synthetic and structural chemistry	DOS in Chemistry, Mangala Gangotri, Mangalore university, Mangalore.	08.12.11 to 10.12. 2011
9.	Faculty development program on “Recent advances in chemistry and material science	Ghousia college of Engg, Ramanagaram	02-02-11 to 04-02-2011
10.	National Science day	28 th Feb 2011	JSSATE, Bengaluru
11.	One day workshop on “Recent advances in electrochemical and surface science & engg	BNM IT, Bangalore	26-08-2010
12.	National conference on “Recent trends in Chemical research” at NITK Suratkall between 8-10, March 2010.	National institute of Technology, Karnataka. Suratkall.	08.03.10 to 10.03.2010
13.	Recent trends in battery technology (workshop)	BIT, Bangalore, & Electrochemical society of India,	24.02.2007

14.	STTP on Nano materials an emerging area of material and technology	Dr AIT, Bangalore	17.04.06 to 21.04.2006
15	“International Conference on water and Health” at <i>SJCE Campus, Mysore-04</i> , India from January 22-23. 2005. International conference on water and health	SJCE, Mysore-04	22.01.05 to 23.01.2005

- ii. **Thesis adjudicator to:** i) Visvesvaraya Technological University, Belagavi. ii) Anna University, Tamilnadu iii) Bharathiar University, iv) Manipal Academy of Higher Education, Manipal. (v) University of Kerala, Thiruvananthapuram, Kerala. (vi) VIT, Vellore, Tamilnadu

iii. 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
3	National Science Fair-2023	Department of Chemistry, JSS Academy of Technical Education, Bengaluru	31.8.2023 to 02.8.2023	Coordinator/Convener
4	National Science Fair-2024	Department of Chemistry, JSS Academy of Technical Education, Bengaluru	25.7.2024 to 27.7.2024	Coordinator/Convener
5	First IEEE International Conference on Computational Intelligence, Communication, and Cyber-Physical Systems (CICCS 2025)	JSS Academy of Technical Education Bengaluru in association with IIT Guwahati	18-20 September 2025	General Chair
6	International Conference on Polymers for Sustainable Development-2025	Department of Chemistry, JSS Academy of Technical Education, Bengaluru	7, February 2025	Convener
7	National Symposium on Advanced Materials for Health, Energy, and Environment (AMHEE-2026)	JSS Academy of Technical Education Bengaluru in Association with Electrochemical Society, India	29-30 June 2026	General Chair

iv. 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	Center 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
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v. Textbook: 05 Editions

Sl. No.	Title of Book	Author & Co-authors	Volume Year of publication and Page Numbers
1	Engineering Chemistry	Mahesh B and Roopashree B	2020 , 284+14 pages (Recognized as a Reference book for Visvesvaraya Technological University, Belagavi. ISBN: 978-93-85155-70-3
2	Engineering Chemistry	Mahesh B and Roopashree B	2016 , 290+14 Pages, ISBN: 978-93-85155-70-3
3	Engineering Chemistry	Mahesh B and Roopashree B	2015 , 292+14 pages, ISBN: 978-93-85155-70-3
4	Engineering Chemistry	Mahesh B and Roopashree B	2014 , 286+14 pages.
5.	Engineering Chemistry	Mahesh B , Roopashree B, Suba Ramesh and Jayanna B K	2010-11 , 324+ 14 pages.

7. 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

vi. Invited talks delivered in Conference/FDP

Sl. No.	Name of the conference/FDP	Topic	Organized by	Date
1	Empowering Teachers, Transforming Education	Foundations of Chemical Research for Higher Secondary Education	Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari	13.5.2026
	Empowering Teachers, Transforming Education	Transforming Chemistry Teaching: From Theory to Practice	Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari	13.5.2026
2.	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
3.	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

4.	National Webinar	Bio-based sustainable polymer blends for medical applications	Saradava Vilas College, Mysuru	16.3.2022
5.	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
6.	Webinar on advanced chemistry	Synthetic Bio-macromolecule for Bio-medical applications"	Basaveshwara Veerashaiva Vidya Vardhak Sangha (B.V.V.Sangha), Amruta Institute of Engineering and Management Sciences (AIEMS), in Bidadi	11.6.2021
7.	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
8.	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
9.	Webinar on recent advances in Chemistry	Peptide-Based Functional Biomaterials for Biomedical Applications	SJBIT, Bengaluru	28.7.2020
10.	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
11.	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,
12.	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
13.	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
14.	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

8. Membership of Professional Bodies:

Life Member- Society for Materials Chemistry - SMC India [LM2734]
Life Member-Indian Science Congress Association, Kolkata
Life Membership in Indian Society for Technical Education (MISTE)
Life Member- Chiranthan Rasayan Sanstha – CRS, Kolkata India [LM243]

9. Any other information you would like to share about your professional experience

In addition to proficient teaching, an effort has been made to (i) develop alternative biomaterials for tissue engineering applications and to obtain a set of novel materials, which are 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 the 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 plenaries plus invited talks at several conferences and faculty development programs to share the research findings and to exchange ideas. (vii) The peptide-synthesis laboratory is equipped with a state-of-the-art facility for complete synthesis and potential analytical facilities from the Government and JSSMVP funding to cater to the needs of budding researchers and project students.

Dr. Mahesh B
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