



Contact

Email

santhoshbm@gmu.ac.in,
dean.Fbas@gmu.ac.in

Phone

9972049262

Websites

LinkedIn:

https://www.linkedin.com/me?trk=p_mwlite_feed-secondary_nav

Google Scholar: [L7iJic8AAAAJ](https://scholar.google.com/citations?user=L7iJic8AAAAJ)

Research Gate:

https://www.researchgate.net/profile/Santhosh-Matta-2?ev=hdr_xprf

SCOPUS: [57209007938](https://www.scopus.com/authid/detail.uri?authorId=57209007938)

PUBLONS ID :

Dr. Santhosh B M

Professor (Associate) in Chemistry, Dean FBAS

Faculty

Faculty of Basic and Applied sciences

School/Program

School of Chemical and Biological sciences
/ B.SC

Faculty Introduction

Dr. Santhosh B M is an Associate Professor, Dean of the Faculty of Basic and Applied Sciences (FBAS), and Head of the Department of Chemistry at GM University, Davangere. With over 15 years of academic and research experience, his expertise lies in electrochemistry, nanotechnology, and materials science. His research focuses on the synthesis and electrochemical characterization of metal oxide nanoparticles for pharmaceutical and sensing applications. He has published more than 15 papers in reputed international journals, authored six book chapters, and serves as a reviewer for Elsevier, Springer, and other renowned journals. A recipient of Young Scientist and Research Excellence awards, he has received research funding of ₹8 lakhs and holds several patents. He is currently guiding five research scholars and frequently delivers invited talks at national and international forums.

Qualifications

Ph.D. (Electrochemistry)

Visvesveray technological university, Belagavi, 2020

M.Sc. (Chemistry)

Kuvempu University – Shimoga, Karnataka, 2009

BSc (Physics, Chemistry and Mathematics)

Kuvempu University – Shimoga, Karnataka, 2007

Experience

Teaching

- **6 Years** in GMIT and GMU Davangere
- **5 years** in STJIT Ranebennur
- **2 years** in GMIT and GMU Davangere
- **2 years** in Govt. First Grade college Davangere
- **1 years** in sir M v PU college in Davangere

Industry

Research

- "Electrochemical investigation on some bioactive compounds of pharmaceutical important at modified electrode"

Training Program Attended

Research Interest

- Electrochemistry
- Nanotechnology
- Materials Science,
- Sensors
- Biosensors

Awards & Achievements

- Research excellence award - 2020
- Young Scientist award - 2021

Publication / Patents

- Patent number: 2020102320. An artificial intelligence based real time drowsiness detection system (Australian government) Dr. Santhosh B M
- Patent number: 202011041959 A. Iaip-interactive business data: interactive intelligent business data visualization using ai- based programming. (Indian government), Dr. Santhosh B M
- Patent number: 202041051636 IoT-Based Automatic Mineral Water Quality Testing and Management System. (Indian government) Dr. Santhosh B M
- Patent number: 202141000258 Enhanced storage method of Gravitational energy to manage renewable sources. (Indian government) National Conference Papers:
- Santhosh B M presented paper in "International conference on e-Conference on Bridging the Gap between Academia, Research and Industry for Local & Global competency" organized by department of biotechnology, kle society S. Nijalingappa college Bangalore on 27th & 28th October 2020.
- Santhosh B M presented paper in Two day International e-Conference on "Applied Materials and Technology - 2020", an approach for Trans-Disciplinary research ,organized by KLE Society's S. Nijalingappa College, Bengaluru-560010, India on 9th & 10th October 2020
- Santhosh B M presented paper in "Multidisciplinary Inventions in Science and Technology" 18th -19th September 2020, Organized by the Oxford college of science and technology Bengaluru-560-102.

- Santhosh B M presented paper in "International conference on Recent innovation science, engineering and technology-ICRISET, 24/07/2020 to 25/07/2020, Jeppiaar Institute of technology Kunnam,
- Santhosh B. M, M. Shivakumar, S. Manjappa, S Manjaunatha, M. S. Dharmaprakash, Presented a paper in "conference on Electrochemistry in Advanced Materials, Corrosion and Radiopharmaceuticals" at CEAMCR-2018,15-17 February,2018, BARC, Mumbai.
- Santhosh B. M, S. Manjappa, presented paper on conference on recent trends on the applications of science in engineering, 28 Sep 2018 Bapuji institute of technology Davangere.
- Santhosh B M presented paper in "Advances in Material, Ceramics and Engineering Sciences' 17-18 Jan 2020 in Dayananda Sagar College of Engineering, Bangalore, India.
- Santhosh B M participated in International Virtual Conference on "Wearable Technologies & Applications: Emerging Trends and Innovation" held on 26th and 27th June 2020, Center for Wearable Technology and Applications School of Electronics Engineering, VIT, Vellore
- Santhosh B. M, participated one day national conference on "Recent trends and future applications of chemical sciences (RTFACS-2016)", on 5 Nov 2016 department of chemistry, Shivagongothri, Davangere university, Davangere -577002 Karnataka.
- Recent Developments on Electrochemical Sensors for Neurotransmitters Using Composite Transition Metal Oxide Nanoparticles Santhosh, BM; Rohini, BA; Raviraj, MK Aug 2025 journal of inorganic and organometallic polymers and materials 35 (8), pp.6113-6129, 10.1007/s10904-025-03677-9
- Electrochemical Detection of Dopamine in the Presence of Uric Acid at Cerium Oxide and L-Tyrosine Mixture Modified Carbon Paste Electrode: A Cyclic Voltammetry Study santhosh Bullapura matt, Sahebagouda Jambaladinni, Prakash KK, Manjappa Sidlingappa, Journal of Electrochemical Society Vol. 171, Issue 1, 2024, Pages. 017506 IF: 3.7 (ECS) 10.1149/1945-7111/ad1c10
- Synthesis of Tin Doped Copper Oxide Nanocomposites for Electrochemical Sensor Application, Priya NR, Mhanthesha KR, Rohini B Anagawadi, santhosh Bullapura matt. Journal of Electrochemical Society Vol. 171, Issue 1, 2024, Pages. IF: 3.9 (ECS) 10.1149/1945-7111/ad2283
- Ph Responsive Properties of Methyl Red/PVA Polymers for Smart Food Packaging Applications, K Swaroop, SG Ashwini, MS Murari, CS Naveen, AK Vinayaka, BM Santhosh, BN Veerabhadraswamy, I Yashodhara, IOP

Conference Series: Materials Science and Engineering
Vol.1300 (1) 2024, 012016.

- Synthesis of Tin oxide nanoparticles using Nelumbo nucifera leaves extract for electrochemical sensing of dopamine S. Raghavendra; H. Purandara; B.M. Santhosh; Sabine Foro; Prashant Patil; S. M. Dharmaprkash; P. Vishwanatha International Journal of Modern Physics B, Vol. 37, Issue 11, 2023, Pages. 2350108 <https://doi.org/10.1142/S0217979223501084>
- Electrochemical Detection of Paracetamol by using Synthesised of Zirconium oxide Nanoparticle Modified Carbon Paste Electrode. Journal of Inorganic and Organometallic Polymers and Materials' Vol. 31, Issue 1, 2022, Pages.511-519 IF: 4.0 <https://doi.org/10.1007/s10904-020-01743-y>
- Crystal structure elucidation, experimental and computational optical properties of novel acceptor-donor-acceptor organic material: A suitable candidate for nonlinear applications H. Purandara; B.M. Santhosh; S. Raghavendra; Sabine Foro; Prashant Patil; S. M. Dharmaprkash; P. Vishwanatha Journal of Molecular Structure Volume 1248, 2022, pages. 131492 <https://doi.org/10.1016/j.molstruc.2021.131492>
- Biological Activity of pdnps derived from Microwave assisted Green synthesis using Hemicellulose Dr Shivakumar M; Dr Manjunath S; Dr manjappa S; M.S. Dr Dharmaprkash; Dr Santhosh B. M; B K Ramesh Current Research in Green and Sustainable Chemistry Volume 4, 2021, pages. 100150. Doi.org/10.1016/j.crgsc.2021.10015
- Electrochemical investigation of caffeine by as synthesized cerium oxide nanoparticle modified carbon paste electrode' Santhosh B. M., M. Shivakumar, S. Manjappa, S. Manjunath and M. S. Dharma Prakash 'Journal of Electrochemical Society. Vol. 167, 2020, Pages.047503 IF: 3.9 <https://doi.org/10.1149/1945-7111/ab7113>
- Electrochemical investigation of serotonin by using Zirconium oxide Nanoparticle Modified Carbon Paste Electrode Santhosh B. M., M. Shivakumar, S. Manjappa, S. Manjunath and M. S. Dharma Prakash ' Santhosh B. M., M. Shivakumar, S. Manjappa, S. Manjunath and M. S. Dharma Prakash, Journal of Electrochemical Society. Vol. 167, 2020, Pages.155512, IF: 3.9 <https://orcid.org/0000-0003-0077-2935>
- Corrosion Inhibitive Capacity of Vanillin-Based Schiff Base for Steel in 1 M hcl G Banuprakash, BM Prasanna, BM Santhosh, AM Guruprasad, RS Malladi Journal of Failure Analysis and Prevention Vol. 21, 2020, Pages.89 - 96, IF: 1.2 <https://doi.org/10.1007/s11668-020-01036-z>
- Electrochemical investigation of serotonin by using Zirconium oxide Nanoparticle Modified Carbon Paste Electrode Santhosh B. M., M. Shivakumar, S. Manjappa, S. Manjunath and M. S. Dharma Prakash ' Santhosh B. M., M. Shivakumar, S. Manjappa, S. Manjunath and M. S. Dharma

Prakash, Journal of Electrochemical Society. Vol. 167, 2020, Pages.155512, IF: 3.9

- Synthesis of cerium doped zirconia nanoparticles for the electrochemical detection of dopamine by modified carbon paste electrode' Santhosh B. M., M. Shivakumar, S. Manjappa, S. Manjunath and M. S. Dharmaprakash 'Wiley chemistry select Vol. 4, Issue 1, 2019, Pages.5839 - 5844 IF: 2.1 <https://doi.org/10.1002/slct.201900642>
- Corrosion Inhibitive Capacity of Vanillin-Based Schiff Base for Steel in 1 M hcl G Banuprakash, BM Prasanna, BM Santhosh, AM Guruprasad, RS Malladi Journal of Failure Analysis and Prevention Vol. 21, 2020, Pages.89 - 96, IF: 1.2 <https://doi.org/10.1007/s11668-020-01036-z>
- Electrochemica l determination o f Dopamine in Presence of Uric Acid at Eucalyptus oil (EU -O) Modified Carbon Paste Electrode : A Cycl i c Voltammetri c Study Harshavardhan A, Santhosh B M, Prakash K, S Raghavendra, Manjappa Sidlinganahalli, Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 4, 2021, Pages. 20416-20436
- Evaluation of Geochemical parameters of groundwater for suitability of Drinking and irrigational needs: a case study from Northern plains of Karnataka state, Vijay B, Siddalinganahalli Manjappa, Santhosh B M, Harshavardhan A and Suresh B, East African Scholars Journal of Engineering and Computer Sciences (2020).

Professional Membership

- Indian Society for Technical Education. (Membership No. LM 129483) (Life Member)
- INSC member

Awards & Recognitions

- Research excellence award - 2020
- Young Scientist award - 2021

Administrative Responsibilities

- Dean FBAS
- HOD Chemistry
- Director for GM Society

Workshops / FDPs / Seminars Attended

- **Two weeks** faculty development program on empowering teaching and learning skills using modern pedagogy tools in technology education from 18/10/2021 to 30/10/2021 in university BDT college of engineering Davangere
- **Seven day** faculty development programme on "Recent Trends inEngineering materials, Nano Science and Nano Technology" during 9-13th October

2020,Ideal Homes Township, Mysore Rd, Aditya Layout, RajaRajeshwari Nagar,Bengaluru, Karnataka-560098

- **Seven day** faculty development programme on 'Recent trends in material science'during 2-6th October 2020, department of chemistry, Sapthagiri college of engineering Bangalore
- **Seven day** faculty development programmeon advances in the synthesis of nano material and their application in the field of science and engineering organised by department of chemistry, during 19-23rd October 2020.organised by Dept of Chemistry Adichunchanagiri Institute of Technology, Chikkamagaluru.
- **One day Workshop** attended one day faculty development programme on "plagiarism issues and essential tools for research write-ups" on 18 Apr 2015, organized by department of electronics and communication engineering, Jain institute of technology, Davangere.
- **One day Workshop** participated in an International Level e-workshop on Angular JS, organized by PVKK INSTITUTE OF TECHNOLOGY, Anantapuram, in collaboration with Brain-O-Vision Solutions on 26th june,2020, with 16243 participants.
- **One-week Workshop** online Faculty development programme NBA and NAAC Accreditation process held on 4 to 8 June 2020 in MSRIT Bangalore.
- **One-week Workshop** online Faculty development programme research proposal writing and organising in the field of science 6th to 11th July 2020 organised by R&D centre-BIT Bangalore.
- **Three Day Workshop on** "Emerging trends in automotive embedded systems" held during 12th to 14th august 2020, organised by department of E&E – BIT Bangalore.
- **Two Day Workshop** on 'Advanced Mathematical Techniques in research & Engineering Applications' organised by Dept. of Mathematics and ISTE, IQAC-GMIT at GMIT, Davangere during 29-30 Jan 2018.
- **State Level Astronomy Programme** organised by Karnataka State Council for Science and Technology at Dept. of Physics, Karnatak University Dharwad, India during Oct 8-9th, 2010

Workshops / FDPs / Seminars Organized

Nil

Projects Guided

- PG Projects 5

Funded Projects / Grants Received

- Optimization of extraction process to obtain omega 3 fatty acids from fish oil and to develop Biodiesel from waste oil Fundedby: VTURGS 8 Lak Rs 2021-22

Any Other Contributions

BOOK CHAPTER

- Bullapura Matt Santhosh, S Manjunatha, Shivarudrappa Honnali Pattanashetty Synthesis and Characterization of Pure and Doped Titanium Oxide Nanoparticles for Catalysis, Multifunctional Inorganic Nanomaterials for Energy Applications, CRC Press Pages: 204-210
- Shivarudrappa Honnali Pattanashetty, Basappa Chidananda Vasantha Kumar, Nisha S Pattanashetty, Bullapura Matt Santhosh, Synthesis and Characterization of MgO Graphene Oxide Nanoparticles for Optoelectronic Devices, Multifunctional Inorganic Nanomaterials for Energy Applications, CRC Press Pages: 413-420
- Santhosh B M, Vasantha Kumar B C, Madhu Kumar R, Shivarudrappa H P*, Prashantha Kumar P N, Characterization methods for Nanomaterials in energy storage, Advanced Nanomaterials for Energy Storage Devices, Springer Nature
- Shivarudrappa H Pa, Vasantha Kumar B Cb, Prashantha Kumar P Nb, Santhosh B M*a, Divya T, Case Studies: Nanomaterials in Specific Energy Storage Devices, Advanced Nanomaterials for Energy Storage Devices, Springer Nature (COMUNICATED) 5. Santhosh B M, Veerabhadraswamy B N & Manjunatha Shivanna, 2D layered nanomaterials modified electrodes for the detection of environmental contaminants, Nanostructure Science and Technology. Springer Nature

BOOKS

- Development of memory B-cells Published in Lap Lambert Academic Publishing Dr. Prakash K K, Dr. Santhosh B M
- Aero bacteriological investigation of different occupational sites in Davangere Published in Lap Lambert Academic Publishing. Dr. Prakash K K, Dr. Santhosh B M
- Structural and functional adaptation of psychrophilic enzymes Published in Scholar press Publishing Dr. Prakash K K, Dr. Santhosh B M
- Electrochemical study of Neurotransmitter using modified electrode Published in Scholar press



Publishing Dr. Santhosh B M, Dr. Prakash K K, Dr, Manjunatha S,

- Molecular characterisation of plan growth promoting bacteria, Dr. Pavan J Kundur Dr. Santhosh B M and Dr. Prakash K K