Dr. P. MALLU

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Dr. P MALLU - Google Scholar

SUMMARY

Organized and dependable candidate successful and managing multiple priorities with a positive attitude. Willingness to take an added responsibilities to meet team goals. To upgrade my knowledge and skill regarding the task and to work for the growth and wealth of the institution.

ADMINISTRATION POSITIONS

▪ Vice Principal	SJCE, Mysuru	2025–2026
▪ Dean Science	JSSSTU	2021-2025
▪ HOD, Dept. of Chemistry	SJCE, Mysuru	2020-2024
▪ PG Co-Ordinator, Dept. of Chemistry	SJCE, Mysuru	2017-2020
▪ Warden Boys Hostel	SJCE, Mysuru	2012- till date
▪ Honorary Secretary, SJCE Co-operative Society	SJCE, Mysuru	2004 – till date
▪ NCC Officer	SJCE, Mysuru	2001-2003

TEACHING POSITION

▪ Professor	SJCE, Mysuru	2007–2026
▪ Assistant Professor	SJCE, Mysuru	1999-2007
▪ Lecturer	SJCE, Mysuru	1990-1999

CONFERENCES/FEST/SEMINAR ORGANIZED

▪ International	05
▪ National	06

PROJECTS

▪ VGST-CISEE	PI (2018-21)	30 Lakhs
▪ UGC funded R&D project	PI (2013-17)	8.28 Lakhs
▪ UGC funded R&D project	Co-Investigator (2010-13)	8.5 Lakhs
▪ TEQIP-III	PI (2022)	0.25 Lakhs

SKILLS

- Administrative management
- Team collaboration
- Administrative Leadership
- Organizational Leadership
- Multitasking strength
- Academic administration
- Organizational improvements
- Education administration

EDUCATION QUALIFICATION

- Doctor of Philosophy – Chemistry
  University of Mysore
  Awarded: 1999
- Master of Science (M.Sc) - Chemistry
  University of Mysore
  Awarded: 1990
- Bachelor of Science (B.Sc)
  Yuvaraja's college,
  University of Mysore
  Awarded: 1988

RESEARCH SUMMARY

▪ No. of Publications	:	101
▪ Book Chapter	:	02
▪ h-Index	:	23
▪ i10-index	:	50
▪ Citations	:	1797
▪ Projects	:	03

STUDENTS GUIDED

Ph.D students
- Awarded 10
- Pursuing 01

M.Sc students
- Awarded 28

Membership of Professional Bodies

- Life Member of Indian Society for Technical Education (ISTE)
- Life Member of Indian Science Congress Association (ISCA)
- Life Member of Asia-Pacific Chemical, Biological& Environmental Engineering Society (APCBEES)
- Life Member of International Association of Engineers (IAENG)
- Life Member of Indian Rubber Institute (IRI)
- Member of Board of studies of NIE, Mysuru.

Projects sanctioned

- UGC funded major R&D Project Titled "Dual Treatment of Diary Waste Water using Electrochemical Coagulation (ECC) and Adsorption" as a Co-Investigator 2010-13-Completed. Sanctioned amount Rs.8.5 lakhs.

- UGC funded major R&D Project Titled "Synthesis, Characterization and Biological Activity of Some Organic Compounds" as a Principal Investigator 2013-17-Completed. Sanctioned amount Rs.8.28 lakhs.

- VGST- Establishment of Centers of Innovative Science & Engineering Education (CISEE) funded major R&D Project Titled "Establishment of Centre for Facile Synthesis of Metal Complexes and Study for Interaction with Biomolecules" as a Principal Investigator 2018-21 Completed. Sanctioned amount Rs.30 lakhs.

AWARDS/ ACHIEVEMENTS

- **As a Keynote speaker**- Topic:" Synthesis and Biological Activity of piperidine derivatives" at the Two Days International Conference on Polymers and Chemical Engineering (ICPCE-15) on 28th – 31st March 2015 at Singapore.

- **As a Invited speaker**- "Design, Synthesis of Piperidine Derivatives for Anti-cancer and Anti- Inflammatory Agents" presented at the 7th National Conference on Novel Polymeric Materials held on 15-16 September 2017 at Sri Jayachamarajendra College of Engineering, Mysore.

- **As an Invited speaker and Chair Person** - "Vision for Medicine: Making weapon against MRSA" presented at the "Recent Advances in Material Science" held on 5th February 2019 at Field Marshal Cariappa College, Madikeri, University of Mangalore.

- **As a Keynote Speaker** – "Nano and Biomaterials: Path towards Sustainable Future" at National Seminar on Sustainable Development & Climate Change held on 19th and 20th February 2019 at Sacred Heart College, Thevera, Kochi.

PhD STUDENTS REGISTERED/AWARDED:

Sl. No	Date of Registration	University	Research Candidates	Research topic	Status
1.	20-05-2011	VTU, Belgaum	Smt. Nagashree S	Synthesis, characterization and biological activity of some Schiff base compounds.	Awarded 2017
2.	20-05-2011	VTU, Belgaum	Mr. Chandrashekar.G.K	Synthesis and biological evaluation of oxadiazole and pyrimidine derivatives.	Awarded 2016
3.	20-12-2012	VTU, Belgaum	Mr. Shankar N	Development and Validation of novel analytical methods for drugs.	Awarded 2020
4.	20-06-2013	VTU, Belgaum	Mr. Santhosh M.V.	Synthesis of some new azo compounds and their anticancer activity.	Thesis in progress
5.	20-06-2013	VTU, Belgaum	Mr. Karthik C S	Synthesis and biological activity of piperazine and piperidine derivatives.	Awarded 2017
6.	20-06-2013	VTU, Belgaum	Mr. Sandeep S	Fabrication of Polyphenol Biosensor and its Performance Evaluation	Awarded 2019
7.	30-6-2016	VTU, Belgaum	Mr. Nagendra Prasad H S	Synthesis of piperazine metal complexes and their biocidal mechanism against MRSA.	Awarded 2020
8.	28-8-2017	JSS STU, Mysuru.	Mr. Nanjunda Swamy S.	Novel approach for synthesis of pyridine analogues against MRSA to overcome bacterial infections	Awarded 2022
9.	2017	JSS STU, Mysuru.	Smt. Shruthi	Metal oxide decorated polymer nanocomposites for optical and electrical applications.	Awarded 2024
10.	2020	JSS STU, Mysuru.	Ms. Chethana M.H	Design and Synthesis of phenolic based metal complexes and their biomolecular interaction studies.	Awarded 2026
11.	2022	JSS STU, Mysuru.	Ms. Varsha Raj	Investigation of metal organic frameworks based composites as electrode material for the detection of drugs.	Registered 2022

GLOBAL PARTNERSHIP

- Hokkaido University, Japan
- Khalifa University, Abu Dhabi.
- Concordia University, Canada.
- National Taipei University of Technology, Taipei Tech, Taiwan.
- Taipei Medical University, Taiwan.
- University of Trento, Italy.
- Dongguk University, South Korea.
- Jain University, Kanakapura, Bangalore.
- Adichunchanagiri University, B.G Nagara.
- Indian Institute of Science, (IISc) Bangalore.
- Indian Institute of Science Education and Research (IISER), Pune.
- Institute of Chemical Technology (ICT), Mumbai.

INDUSTRY PARTNERSHIP

- Anthem Biosciencs Ltd., Bangalore.
- Syngene International Ltd, Bangalore.
- Himalaya, Bangalore.
- Biocon Pharmaceuticals Limited, Bangalore.
- Biocon Bristol Myers Squibb Research & Development Center (BBRC), Bangalore.
- Chromatogen analytical solutions, Mysore.

CONFERENCE/SEMINARS ORGANIZED

- As a Convenor – Special Seminar on “Research from Academic to Industry”, held on 27th September 2025.
- As a Convenor – Sci-Tech Fest-5.0, held on 29th and 30th May 2025.
- As a Convenor – International Symposium on “Nanomaterials for Health & Energy”, held on 2nd September 2024.
- As a Convenor – National Level Sci-Tech Fest-4.0, held on 27th and 28th February 2024.
- As an Organizing Chair – International Symposium “EMSEE-2023”, held on 15th July 2023.
- As a Convenor – Second International Conference on “Advanced Materials for Health, Energy, and Environment (AMHEE-2023)”, held from 28th February to 2nd March 2023.
- As a Convenor – National Level Sci-Tech Fest-3.0, held on 27th February 2023 on the occasion of National Science Day.
- As an Organizing Chair – Special Lecture on “Strategies for Transition from Academia to Industry”, held on 30th May 2022.

- As an Organizing Chair – Special Lecture on "Water Quality Analysis and Management", held on 12th May 2022.
- As a Convenor – Four-Day Sci-Tech Fest-2.0, held from 25th to 28th February 2022 on the occasion of National Science Day.
- As a Convenor – Two-Day International Conference on "Advanced Materials", held on 6th and 7th July 2021.
- As a Convenor – Second National Conference on "Advanced Materials for Health, Energy and Environment (AMHEE-2019)", held on 6th and 7th September 2019.
- As a Convenor – Two-Day Sci-Fest, held on 28th February and 1st March 2019 on the occasion of National Science Day.
- As an Organizing Secretary – Two-Day National Conference on "Advanced Materials for Health, Energy and Environment (AMHEE-2018)", held on 23rd and 24th March 2018.
- As an Organizing Secretary – One-Day International Symposium on "Advanced Materials", held on 27th December 2017.
- As an Organizing Secretary – Two-Day National Conference on "Recent Trends in Chemical Research", held on 3rd and 4th January 2014.
- As a Coordinator – One-Day Seminar on "Chemistry of Materials", held on 25th November 2011

LIST OF RESEARCH PUBLICATIONS (Published/Communicated)

1) Ajay, M. R., Preetham, H. S., Karthik, C. S., Geetha, D., Sandeep, S., Santhosh, A. S., **Mallu, P**., & Swamy, S. N. (2026). Rational design and insilico evaluation of 2-amino-5-methylthiazole derivatives as potent EGFR inhibitors for colorectal cancer therapy. *Discover Chemistry, 3*(1), 321. https://doi.org/10.1007/s44371-026-00772-9

2) Chethana, M. H., Priyadarshini, A. N., Sudhanva, M. S., Rangappa, S., & **Mallu, P.** (2026). A novel titanium-Schiff base complex for targeting triple negative breast cancer: synthesis, characterisation, and apoptosis induction. *Materials Research Innovations*, *30*(4), 410–419. https://doi.org/10.1080/14328917.2025.2604696.

3) Shruthi, S., Hegde, V. N., Lokesh, B. M., **Mallu, P**., & Rani, N. S. (2026). Optical and electrical characterization of poly(lactic acid) films embedded with strontium yttrium oxide nanocomposites. *Journal of Polymer Research, 33*(4), 152. https://doi.org/10.1007/s10965-026-04803-y

4) Rakshitha, G.S., Karthik, C.S., Karuppasamy, K, **Mallu, P.** et al. A robust aminothiazole-based colorimetric sensor for visual detection of Fe3+ ions in environmental and pharmaceutical samples. Sci Rep 16, 9399 (2026). https://doi.org/10.1038/s41598-026-38683-5

5) Vijayakumar, A., Chandapur, S. K. S., **Mallu, P.,** Puttaswamy, R., Selvaraj, M., Assiri, M. A., & AS, S. (**2025**). A Dual–Functional Nanomaterial for a Sustainable Environment: Bismuth Sulphide–Titanium dioxide mediated Photocatalysis and Catalysis. ***Surfaces and Interfaces***,107704. https://doi.org/10.1016/j.surfin.2025.107704 **(IF 6.3)**

6) Punith, M. S., Ningaraju, G. N., Nanjundaswamy, S., Chethana, M. H., Sandeep, S., Santhosh, A. S., Jothi Ramalingam, C S Karthik & **Mallu, P**. (**2025**). 2, 4-difluorophenyl (piperidin-4-yl) methanoneoxime derivatives as potent contenders to combat antibacterial resistance of MRSA: In-silico approach. ***Discover Molecules***, *2*(1), 1-29. https:// doi. org/

10. 1007/ s44345- 025-00010-2.

7) Mahesh, G., Sirisha, S., Siddamallappa, N. G., Selvaraj, M., Assiri, M. A., Nandini, S., **P Mallu** & Sandeep, S. (**2025**). Unlocking Dual-detection Potential of Nd2nizro6/go Electrodes for Paracetamol and Dopamine. ***Journal of Materials Chemistry B***. https://doi.org/10.1039/D5TB01105A **(IF 5.7)**

8) Hema, M. K., RR, A. R., Rajabathar, J. R., Chethana, M. H., Eltayeb, M. A., Lokanath, N. K., & **Mallu, P.** (**2025**). 2D hydrogen bonded organic framework (2D-HOF) in benzodioxane-coupled-pyridine as a charge carrier: Synthesis, structural, quantum computational investigation. ***Journal of Molecular Structure***, *1321*, 139633. https://doi.org/10.1016/j.molstruc.2024.139633 **(IF 4.7).**

9) Shruthi, S., Hegde, V. N., Lokesh, M. B., Rajabathar, J. R., Karnan, M., & **Mallu, P**. (**2024**). Investigation of Electrical Properties of Strontium Doped Zirconium Oxide Incorporated in Poly (Lactic-Acid). ***Biointerface Research in Applied Chemistry***, *14(2)*, 43. https://doi.org/10.33263/BRIAC142.043.

10) Nanjundaswamy, S., Chimatahalli Shanthakumar, K., Shadakshari, S., Rajabathar, J. R., Arokiyaraj, S., Al-Lohedan, H. A., ... & **Mallu, P.** (**2024**). Redefining Chalcone Synthesis: Aldol Adduct Elimination for the Rapid Access to Thienyl Chalcones. **ACS omega**, 9(12), 13603-13611. **(IF 4.3)**

11) Jayashankar, J., Ningaraju, G. N., Nanjundaswamy, S., Rajabathar, J. R., Karnan, M., Karthik, C. S., & **Mallu, P**. (**2024**). An in-silico investigation of volatile compounds in Tulsi and Ginger as a potent inhalant for SARS-CoV-2 treatment. **Journal of the Iranian Chemical Society**, 21, 479-502. https://doi.org/10.1007/s13738-023-02939-y. **(IF 2.3)**

12) Jayashankar, J., Punith, M. S., Nanjundaswamy, S., Karthik, C. S., **Mallu, P.,** Ramalingam, R. J., ... & Dinakarkumar, Y. (**2023**). Herbal medicine (Curcuma longa) inspired volatile compounds as potential inhalants against SARS-CoV-2: An in-silico strategy and modeling study. https://doi.org/10.21203/rs.3.rs-2791041/v1

13) Ramakrishna Belathur Narasaiah, Jayashankar Jayaprakash, Navya B. Suresh, Nanjundaswamy Shanthappa, **Puttaswamappa Mallu**, Shroff R Kumaraswamy., **2023**. (Z)-2-(4-chlorophenyl)-N'-Hydroxyacetimidamide as a Human Carbonic Anhydrase Inhibitor: Synthesis, Crystal Structure, STRING Analysis, Molecular Docking and Dynamic Simulation Studies. **Biointerface Research in Applied Chemistry**, Volume 14, Issue 2, 2024, 28. https://doi.org/10.33263/BRIAC142.028.

14) Nikhil, J. L., Manjunatha, J. G., Hareesha, N., Kanthappa, B., Karthik, C. S., **Mallu, P**., & ALOthman, Z. A. (**2023**). Electrochemical determination of methyl orange using Poly (L-Serine)-modified carbon paste electrode. ***Journal of Electronic Materials***, *52*(10), 7021-7029. https://doi.org/10.1007/s11664-023-10645-x **(I.F: 2.5)**

15) Lohith, T. N., Hema, M. K., Karthik, C. S., Sandeep, S., Ramalingam, R. J., Karnan, M., Lokanath, N. K., Mallesha, L., **Mallu, P.,** & Sridhar, M. A. (**2023**). Probing the Hydrogen Bond Network in the Crystal Structure of a Sulfonamide Derivative: A quantum chemical approach. ***Journal of Molecular Structure***, 1289, p. 135841, 2023. https://doi.org/10.1016/j.molstruc.2023.135841 **(IF 4.7)**

16) Nagendra Prasad, H S., Ananda, A., Mukarambi, A., Gaonkar, N., Sumathi, S., Spoorthy, H., & **Mallu, P**. (**2023**). Design, synthesis, and anti-bacterial activities of piperazine based phthalimide derivatives against superbug-Methicillin-Resistant Staphylococcus aureus. ***Current Chemistry Letters***, *12*(1), 65-78. https://doi.org/10.21203/rs.3.rs-1574463/v1. **(IF 3.65)**

17) Mahesha., Hema, M.K., **Karthik, C.S**., Kumar, A.U., Pampa, K.J., **Mallu, P**. and Lokanath,

N.K., **2023**. Structural conformation and coordination architecture investigation in the solvent induced cis Cu (II) complex containing fluorine-substituted β-diketonate ligand. ***Journal of Molecular Structure***, *1272*, p.134146. https://doi.org/10.1016/j.molstruc.2022.134146 **(IF 4.7)**

18) Jayaprakash, J., Renganathan, R. R. A., Shanthappa, N., Karthik, C. S., Sandeep, S., Santhosh, A. S., Jayanth Hampapura Sunderraj, **P Mallu**, Haraprasad Nanjundappa, & Ravishankar Rai Vittal. (**2023**). Phytochemicals of Citrus Fruits: The in-silico Investigation against Sars-CoV-2 Proteins. ***Trends in Sciences***, 20(1), 3508-3508. https://doi.org/10.48048/tis.2023.3508.

19) Bindhu, S., Raj, V., Nanjundaswamy, S., Hemavathi, M., Sandeep, S., Renganathan, R. A., C S Karthik, **P Mallu** & Rai, V. R. (**2023**). Insight into the conformational analysis of 3-phenyl-N-(3-(trimethoxysilyl) propyl) prop-2-en-1-imine (PTP) as a biocidal candidate: In-silico and quantum computational approach. ***Results in Chemistry***, *5*, 100685. https://doi.org/10.1016/j.rechem.2022.100685. **(IF 4.2)**

20) Kumaraswamy, S.R., Pampa, K.J., **Nagashree, S., Mallu, P.**, Chandramohan, V. and Krishnappagowda, L.N., **2022**. Molecular Docking and Dynamic Simulation Studies of Cu (II) Metal Complexes with Covid-19 main Protease. ***Letters in Applied NanoBioScience***, 12, (4), 131. https://doi.org/10.33263/LIANBS124.131

21) Nanjundaswamy, S., Hema, M. K., Karthik, C. S., Rajabathar, J. R., Arokiyaraj, S., Lokanath, N. K., & **Mallu, P. (2022**). Synthesis, crystal structure, in-silico ADMET, molecular docking and dynamics simulation studies of thiophene-chalcone analogues**.** ***Journal of Molecular Structure***, *1247*, 131365. https://doi.org/10.1016/j.molstruc.2021.131365 **(IF 4.7)**

22) Shruthi, S., Hegde, V. N., Jayashankar, J., Karthik, C. S., Prashantha, K., & **Mallu, P.** (**2022**). Investigation of thermal, mechanical and dielectrical properties of LiYO2 filled poly (lactic acid) nanocomposites. ***International Journal of Polymer Analysis and Characterization***, *27*(8), 586-600. https://doi.org/10.1080/1023666X.2022.2123575. **(IF 1.9)**

23) Manikanta, P., Hariprasad, B.R., Sanjay, B.P., Sandeep, S., Santhosh, A.S., Karthik, C.S., **Mallu, P.**, Al-Kahtani, A.A., Tighezza, A.M., Nagaraja, B.M. and Karnan, M., **2022**. Sonochemically Prepared GdWNFs/CNFs Nanocomposite as an Electrode Material for the Electrochemical Detection of Antibiotic Drug in Water Bodies. ***Journal of Inorganic and Organometallic Polymers and Materials***, 32, pp.1-10, 2022. https://doi.org/10.1007/s10904-022-02357-2. **(I.F:4.9).**

24) Jayashankar, J., Hema, M. K., Karthik, C. S., Suma, D., Kumaraswamy, S. R., Lokanath, N. K., , **P. Mallu** M, Nethaji & Lu, N. (**2022**). Enchant OH··· O interactions in hydrated 6-amino-2-methoxypyrimidin-4 (3H) one resembles as water flow in the channel: Crystallographic and theoretical investigations. ***Journal of Molecular Structure***, 1263, 133098. https://doi.org/10.1016/j.molstruc.2022.133098 **(IF 4.7)**

25) Lohith, T. N., Hema, M. K., Karthik, C. S., Sandeep, S., Mallesha, L., Alsaiari, N. S., **P. Mallu**, R. Jothi Ramalingam, Sridhar M. A, Muthusamy Karnan, N K. Lokanatha. **(2022**). Persistent prevalence of non-covalent interaction in pyrimidine containing sulfonamide derivative: A quantum computational analysis. ***Journal of Molecular Structure***, 133378. https://doi.org/10.1016/j.molstruc.2022.133378 **(I.F:4.7).**

26) Lohith, T. N., Hema, M. K., Karthik, C. S., Sandeep, S., Mallesha, L., **Mallu, P**., ... & Lokanath, N. K. (**2022**). N-[2-(5-bromo-2-chloro-pyrimidin-4-yl) thio)-4-methoxy-phenyl]-4-chlorobenzenesulfonamide: The existence of H-bond and halogen bond interactions assisted supramolecular architecture–A quantum chemical investigation. ***Journal of Molecular Structure***, *1267*,

133476. https://doi.org/10.1016/j.molstruc.2022.133476 **(I.F- 4.7).**

27) Harshitha, B. T., Jayashankar, J., Anand, A. P., Sandeep, S., Jayanth, H. S., Karthik, C. S., **P. Mallu**, N. Haraprasad & Krishnamurthy, N. B. (**2022**). Structural and Functional Insights of Thiazole Derivatives as Potential Anti-inflammatory Candidate: A New Contender on Chronic and Acute SARS-CoV-2 Inflammation and Inhibition of SARS-CoV-2 Proteins. ***Asian Journal of Chemistry***, 1893-1920. https://doi.org/10.14233/ajchem.2022.23673.

28) Nagendra Prasad, H. N., Ananda, A. P., Sumathi, S., Swathi, K., Rakesh, K. J., Jayanth, H. S., & **Mallu, P.** (**2022**). Piperazine selenium nanoparticle (Pipe@ SeNP's): A futuristic anticancer contender against MDA-MB-231 cancer cell line. ***Journal of Molecular Structure***, 133683. https://doi.org/10.1016/j.molstruc.2022.133683 **(I.F – 4.7)**

29) Nanjundaswamy, S., Jayashankar, J., Renganathan, R. A., Karthik, C. S., Mallesha, L., **Mallu, P**., & Rai, V. R. (**2022**). Pyridine coupled pyrazole analogues as lethal weapon against MRSA: An in-vitro and in-silico approach. ***Microbial Pathogenesis***, 166, 105508. https://doi.org/10.1016/j.micpath.2022.105508 **(I.F:3.5)**

30) Nagendra Prasad, H. S. Navyatha Prashanth Gaonkar, Ananda, A. P., Amogh Mukarambi, Charan Kumar, G., Lohith, T. N., Jayanth H. S., Beeregowda, N., Sridhar M.A., & **P Mallu** (**2022**). Antibacterial Property of Schiff-based Piperazine against MRSA: Design, Synthesis, Molecular Docking, and DFT Computational Studies. ***Letters in Applied Nanobioscience***, Volume 12, Issue 2, 2023, 54. ISSN: 2284-6808.

31) Vinayakprasanna N Hegde, Jayashankar Jayaprakash, Jyothi Kamareddy Raju, Chimatahalli S. Karthik, **Puttaswamappa Mallu,** Kumaraswamy S. Rajashekaramurthy (**2023**). "((Z)-(2,4-difluorophenyl)(1-((2 nitrophenyl)sulfonyl)piperidin-4-yl)methanone oxime): Synthesis, Computational Evaluation on Electronic Properties". ***Letters in Applied Nanobioscience***, Volume 12, Issue 4, 2023, 45. https://doi.org/10.33263/LIANBS124.132 ISSN: 2284-6808.

32) Prasad, H. N., Ananda, A. P., Lohith, T. N., Prabhuprasad, P., Jayanth, H. S., Krishnamurthy, N. B., ... & **Mallu, P.** (**2022**). Design, synthesis, molecular docking and DFT computational insight on the structure of Piperazine sulfynol derivatives as a new antibacterial contender against superbugs MRSA. ***Journal of Molecular Structure***, *1247*, 131333. https://doi.org/10.1016/j.molstruc.2021.131333 **(IF 4.7)**

33) Nandini, S., Nalini, S., Bindhu, S., Sandeep, S., Karthik, C. S., Nithin, K. S., **P Mallu** & Manjunatha, J. G. (**2022**). Current trends of functionalized nanomaterial-based sensors in point-of-care diagnosis. **In** ***Functionalized Nanomaterial-Based Electrochemical Sensors*** (pp. 337-353). Woodhead Publishing. https://doi.org/10.1016/B978-0-12-823788-5.00019-3

34) Hegde, V. N., Jayaprakash, J., Raju, J. K., Karthik, C. S., Mallu, P., & Rajashekaramurthy, K. S. (**2022**). Investigation on Quantum Computational Analysis and Toxicity Prediction of 4-Nitrophenylisocyanate. ***Lett. Appl. NanoBioScience***, *12*(2), 45. https://doi.org/10.33263/LIANBS122.045.

35) Nanjundaswamy, S., Jayashankar, J., Chethana, M. H., Renganathan, R. A., Karthik, C. S., Ananda, A. P., **P Mallu** & Rai, V. R. (**2022**). Design, synthesis, and in-silico studies of pyrazolylpyridine analogues: A futuristic antibacterial contender against coagulase positive superbug-MRSA. ***Journal of Molecular Structure***, *1255*, 132400. https://doi.org/10.1016/j.molstruc.2022.132400 **(IF 4.7)**

36) S. Nanjundaswamy, S. Bindhu, R. R. Arun Renganathan, S. Nagashree, C. S. Karthik, **P. Mallu** and V. Ravishankar Rai., **(2022).** Design, synthesis of pyridine coupled pyrimidinone/pyrimidinthione as anti-MRSA agent: Validation by molecular docking and

dynamics simulation ***JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS***. 40(22), p. 12106-12117, 2022**.** https://doi.org/10.1080/07391102.2021.1968496 **(I.F – 2.7)**

37) Gurumallappa, Arun Renganathan, R. R., Hema, M. K., Karthik, C. S., Rani, S., Nethaji, **P.Mallu**., & Ravishankar Rai, V. (**2021**). 4-acetamido-3-nitrobenzoic acid-structural, quantum chemical studies, ADMET and molecular docking studies of SARS-CoV2. ***Journal of Biomolecular Structure and Dynamics***, 1-15. https://doi.org/10.1080/07391102.2021.1889664 **(I.F – 2.7)**

38) HS, N. P., Ananda, A. P., Amogh, P. M., Gaonkar, N. P., Jayanth, H. S., Sumathi, S.,.....& **Mallu, P.** (**2022**). Design, synthesis, and anti-bacterial activities of piperazine based phthalimide derivatives against superbug-MRSA.

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BOOK CHAPTERS

1. Voltammetric Applications in Anti-inflammatory Drug Detection-B.P Sanjay, D N Varun, S Sandeep, C S Karthik, A S Santhosh, P Mallu & Nagaraja Sreeharsha.-Voltammetry for sensing applications-P259-280, Bentham Science Publishers Pvt. Ltd. Singapore. 2022.ISBN: 978-981-5039-71-9.

2. Voltammetric Applications in Detection of Anticancer Drug-Shankar Ashok Itagi, M H Chethana, P Manikanta, S Sandeep, C S Karthik, A S Santhosh, K S Nithin, Kumaraswamy N K & P Mallu-Voltammetry for sensing applications-P306-324, Bentham Science Publishers Pvt. Ltd. Singapore.2022. ISBN: 978-981-5039-71-9.

Declaration

I hereby declare that the information I have provided is true and accurate to the best of my knowledge.

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