Dr. SUNIL K.

Controller of Examinations

Sri Siddhartha Academy of Higher Education, Tumakuru.

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| Professor and Head, Department of Chemistry, SSIT | Coordinator, Ph.D., Programmes, SSAHE Tumakuru |

Overview

Working as a Professor and Head of the Department of Chemistry at Sri Siddhartha Institute of Technology, Tumakuru, and also serving as the Coordinator for Ph.D. Programmes at Sri Siddhartha Academy of Higher Education, Tumakuru, I have contributed significantly to the fields of teaching, research, academic administration, and institutional development. Recently, I have also been entrusted with the responsibility of Controller of Examinations, further strengthening my role in academic governance and examination management.

As a seasoned Professor and Head of the Department of Chemistry, I bring extensive expertise in teaching, research, academic leadership, and administrative coordination. With a strong background in chemistry and a proven track record of guiding research projects, I have mentored several students and coordinated Ph.D. programmes effectively. My research interests include synthetic organic chemistry, medicinal chemistry, catalysis, sensors, and crystallography.

As the Ph.D. Programme Coordinator, I oversee the development and implementation of doctoral programmes, ensuring academic excellence, transparency, and innovation. In my role as Controller of Examinations, I am involved in strengthening examination-related processes and ensuring their smooth and systematic conduct. My leadership and coordination skills have enabled me to foster a collaborative academic and research environment that promotes academic growth, research excellence, and institutional quality.

CAREER HIGHLIGHTS

- Total teaching experience of 20 years, including 7 years as Assistant Professor, 9 years as Associate Professor, and 4 years as Professor.
- Assumed the duties and responsibilities of Head of the Department of Chemistry in 2015 and have been serving in this position to date.
- Editorial Board Member, International Journal of Modern Chemistry.

- Major Research Grant: ₹42.10 lakhs received from the Karnataka Council for Technological Upgradation (KCTU), February 2017.
- Minor Research Grant: ₹1.80 lakhs received from SSAHE, February 2022.
- Established a new Research Laboratory, Department of Chemistry, SSIT.
- Convener for technical talks, a two-day workshop, a national conference, and an International Virtual Conclave on Digital Currency.
- Director In-Charge, Projects and International Collaborations.
- Ph.D. Guidance: Guided 5 research scholars and currently guiding 8 research scholars.
- Resource Person: Delivered a lecture in a Faculty Development Programme at MSRIT.
- Associate Editor, SSAHE Journal of Interdisciplinary Research.
- Session Chair: Chaired sessions at international conferences.
- Research Publications: Published more than 70 research articles in reputed journals.
- Serving as the Coordinator for Ph.D. Programmes at SSAHE.
- Experience in conducting and processing Ph.D. entrance examinations and coursework examinations for Medical, Dental, Engineering, and Basic Sciences.
- Successfully implemented the Online Ph.D. Entrance Examination at Sri Siddhartha Academy of Higher Education (SSAHE), enhancing the efficiency, transparency, and accessibility of the examination process.

RESEARCH METRICS

	Citations	Documents	h-index
Scopus	513	58	10
Google Scholar	946	87	13
Web of Science	478	48	10

EDUCATION

- Ph.D., in Chemistry, Mangalore University, Mangalore, Karnataka, India, 2010
- M.Sc., in General Chemistry, Kuvempu University, Karnataka, India 2004
- B.Sc, in Sahydri Science College, Shivamogga, Karnataka, India 2002

PATENT GRANTED

- Synthesis Characterization, Biological and Theoretical Studies of Novel Pyridine Derivatives. Patent No.: 564805 Date of Grant: 02.04.2025

ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES

- Serving as **Controller of Examinations**, at Sri Siddartha Academy of Higher Education (Apriil-2026 to till date)
- Serving as **Professor and Head**, Department of Chemistry, Sri Siddhartha Institute of Technology, Tumkur, since 2015.
- Serving as the **Coordinator for Ph.D., Programmes** at Sri Siddartha Academy of Higher Education (April-2023 to till date)
- **Liaison Officer at SSAHE.**
- Served As **Director in-charge** for Projects and International Collaborations.
- Served as a **Coordinator** for NAAC Criteria 3 and NBA criteria 8.

AWARDS AND RECOGNITIONS

- Recipient of the prestigious **Best Teacher Award**, recognizing my dedication to academic excellence and inspiring students through innovative teaching, Research and mentorship from Sri Siddhartha Institute of Technology, during Teachers and Engineers Day 2024.
- Research article was selected for the **SYNLETT Best Paper Award** competition 2020, Synlett, USA, in recognition of outstanding research contributions in the field of organic synthesis.
- Featured on the **cover page of the Journal of Heterocyclic Chemistry** (Wiley Publishing Group, 2023) for the graphical abstract of the research article 'Pd/Co2(CO)8-mediated bi-metallic catalysis: Facile synthesis of pharmacologically relevant novel tacrine analogues', highlighting innovative synthesis of medicinally important compounds
- Research scholar Mr. Pruthviraj received the Young Scientist Award at the International Conference on Electronics, Mechanical, and Nanotechnology (ICEMN-2023) for research on '5-((3-phenoxyphenyl)diazenyl)quinolin-8-ol (PPDQ): A novel promising anticorrosive for mild steel in acid media, antioxidant and facile nitrite sensing azo dye', conducted under the **supervision of Dr. Sunil K**
- Research scholar Mr Kiran G N received the **Third Prize for the technical poster presentation** titled 'Green Synthesis of Cadmium Ferrite Nanoparticles via Microwave Assisted Combustion Method for Detecting Emerging Contaminant Bisphenol A in Water Sources' at the 1st Indian International Conference on Water Quality Management (IICWQM-2023) held at the Indian Institute of Science (IISc), Bangalore, under the **supervision of Dr. Sunil K**.

- Mr Pruthviraj, Research Scholar is a Recipient of the InSC Young Researcher Award for research on 'Schiff Base derived from 2-hydroxy Naphthaldehyde as anti-corrosive for mild steel in acid media: Experimental Investigation and Theoretical Modeling', conducted under the **supervision of Dr. Sunil K**.

RESEARCH MENTORSHIP (Ph.D. GUIDANCE)

Ph.D. Awarded

Sl. No	Name of Research scholar	Thesis Title	Status
1	Prasanna Kumar T P 17PH6CHE02	Studies on synthesis and physico-chemical characterization of novel Schiff base compounds using berry fruit extracts for cosmeceutical application	Ph.D.,Awarded March 2021
2	N Madan 17PH6CHE02	Synthesis and crystal structure determination of chalcones and schiff base derivatives	Ph.D., Awarded Feb 2023
3	Rajendra M A 14PH3CHE02	Synthesis, Characterization and Biological study of Novel heterocyclic compounds containing Nitrogen and Oxygen	Ph.D., awarded April2023
4	Arvind Babu 17PH6CHE01	Synthesis, Characterization and Biological study of Novel heterocyclic compounds in the treatment of Alzheimer's disease	Ph.D.,Awarded July 2023
5	Pradeep Kumar P S 19PH8CHE01	Synthesis characterization and biological studies of novel heterocyclic compounds	Ph.D., Awarded September 2024

Ph.D. Scholars Currently Persuing

Sl. No	Name of Research scholar	Thesis Title	Status
1	Kishor Prasad 22PH11CHE01	Synthesis, characterization and crystal structure determination of chalcones and Schiff base derivatives	Ongoing
2	Nagesh 22PH11CHE01	Synthesis, characterization and biological studies of some novel heterocyclic compounds	Ongoing
3	Kiran G N 23PH12CHE02	Development of Nanomaterials – Based Electrochemical Sensors for the Detection of Emerging Contaminants in Water	Ongoing
4	Pruthviraj K 23PH12CHE03	Synthesis, characterization, Theoretical and *in silico* studies of some Schiff Base Scaffolds.	Ongoing
5	Sandya V 24PH13CHE01	Synthesis, Structural Study and Pharmacological Evaluation of Some Heterocyclic Compounds	Ongoing
6	Prasad Y 24PH13CHE02	Synthesis of Diversely Substituted Pyrazole and Isoxazole Analogues by Using a C-H Carbonation Methodology	Ongoing
7	Yesu Babu 22PH11CHE01	Synthesis, Characterization and Biological study of Novel heterocyclic compounds	Ongoing
8	Yamuna	Synthesis, Characterization and crystal structure determination of novel heterocyclic derivatives	Ongoing

EMPLOYMENT RECORDS

Sl. No.	Name and address of the Employer	From	To	Position held	Duration
1	Sri Siddhartha Institute of Technology, Tumakuru	07/2022	Till Date	Professor and HOD	3.2 Years
2	Sri Siddhartha Institute of Technology, Tumakuru	07/2015	06/2022	Associate Professor & HOD	7 Years
3	Sri Siddhartha Institute of Technology, Tumakuru	08/2010	07/2015	Assistant Professor	5 Years
4	Akshaya Institute of Technology, Tumakuru.	08/2009	08/2010	Assistant Professor &HOD	1 Year
5	Mangalagangotri, Mangalore University, M'lore	01/2006	12/2007	Guest Faculty,	2 Year
6	University College, Hampanakatte Mangalore	07/2005	12/2005	Guest Faculty,	0.5Year

RESEARCH PROJECTS / GRANTS COMPLETED.

- Major research project entitled, "Polymorphic Transformation of Drugs using Near Infrared Spectroscopy Involving Cheminformatics". Sanctioned from **Karnataka Council for Technological Upgradation (KCTU) for Rs.42,10,000/-.**
- Minor research project entitled, "Design and Synthesis of Novel Tacrine Analogues for the Treatment of Alzheimer's Disease" is **under taken with the financial assistance of Rs.01.80,000/- from SSAHE Tumakuru**

AREA OF RESEARCH PUBLICATIONS / RESEARCH INTEREST

- Including but not limited to Synthetic Organic Chemistry, Inorganic Chemistry, Medicinal Chemistry, Catalysis, Sensors and Crystallography. More than 70 Research Papers Published. (List enclosed).

REVIEWER / PANELIST

1. Member of Editorial Board of "International Journal of Modern Chemistry" Modern Scientific Press, Western Florida USA (https://modernscientificpress.com/journals/ijmchem.aspx)
2. Associate Editor of "SSAHE Journal of Interdisciplinary Research" Sri Siddartha Academy of Higher Education, Tumkur(https://sahe.in/jir/)
3. Reviewer for Material Science Section : 2023 Fifth International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2023).
4. Reviewer for Oriental Journal of Chemistry (an international chemistry journal) (www.orientjchem.org)
5. Reviewer for Journal of Polymers and the Environment (Springer Group) (https://link.springer.com/journal/10924)
6. Invited as Potential reviewer for the Journal Current Pharmaceutical Design, Bentham Science Publications USA / UAE & Netherland which is listed in Top 14 publishers of

Scopus Indexing

7. Reviewer for Journal Current Organic Chemistry – Bentham Science Publications USA(https://benthamscience.com/public/journals/current-organic-chemistry)
8. Reviewer for Journal Current Pharmaceutical Design – Bentham Science Publications USA(https://benthamscience.com/public/journals/current-pharmaceutical-design)
9. Reviewer for Journal Mini reviews in Organic Chemistry– Bentham Science Publications USA(https://benthamscience.com/public/journals/mini-reviews-in-organic-chemistry)
10. Reviewer for Journal Ionics (Springer Group) (https://link.springer.com/journal/11581)
11. Reviewer for Journal Luminescence (Springer Group)
12. (https://link.springer.com/referenceworkentry/10.1007/978-3-319-39193-9_24-1)
13. Reviewer for Journal Letters in Organic Chemistry– Bentham Science Publications
14. USA(https://benthamscience.com/public/journals/letters-in-organic-chemistry)
15. Reviewer for Journal Medicinal Chemistry– Bentham Science Publications
16. USA(https://benthamscience.com/public/journals/medicinal-chemistry)
17. Reviewer for Asian Plant Research Journal– (https://journalaprj.com/index.php/APRJ)
18. Reviewer for book Chapter Recent Developments in Chemistry and Biochemistry Research

SEMINAR / WORKSHOPS/ CONFERENCE/ FDP

1. Presented a paper titled 'A Rapid and Sensitive Spectrophotometric Method for the Determination of Hydrogen Peroxide' at the National Conference on Current Trends in Chemical Research (CTCR-2006), held at Mangalore University in May 2006."
2. Presented a paper titled 'Spectrophotometric Determination of Dissolved Oxygen in Water Samples' at the National Conference on Emerging Areas in Chemical and Biological Sciences (NCEACB-2007), held at Kuvempu University in March 2007.
3. Presented a paper titled 'A Rapid and Sensitive Spectrophotometric Method for the Determination of Hydrogen Peroxide' at the National Conference on Emerging Areas in Chemical and Biological Sciences (NCEACB), held at Kuvempu University in March 2007
4. Presented a paper titled 'Facile and Sensitive Spectrophotometric Determination of Chromium' at the International Conference on Frontiers in Chemical Research (ICFCR-2008)."
5. Presented a paper titled 'Spectrophotometric Determination of Selenium' at the International Conference on Frontiers in Chemical Research (ICFCR-2008).
6. Presented a paper titled 'Novel and Simple Gas Chromatographic Method for the Quantification of Schiff Base Compounds' at the International Conference on 'Latest Advancements & Future Trends in Engineering, Science & Management' held on May 3-4, 2019, organized by Sambhram Institute of Technology, Bangalore."
7. Presented a paper titled 'Formulation and Evaluation of Multipurpose Creams by using Natural Schiff's Base Active Ingredients' at the International Conference on 'Advances in Material Research (ICAMR-2019)', held from July 25-27, 2019, organized by the Department of Chemistry and Mechanical & Manufacturing Engineering, Ramaiah University of Applied Sciences, in association with the Catalysis Society of India, Bangalore Chapter."
8. Presented a paper titled 'Synthesis, Characterization and Antioxidant Activity of Schiff's Base Compounds by Using Green Chemistry Techniques' at the International Conference

on 'Nanotechnology', held on October 18-19, 2019, organized by the Department of Chemistry, Srinivasa University, Mangalore.

9. Presented a paper titled 'Synthesis, Characterization and Biological Studies of Novel Heterocyclic Compounds' at the International Conference on Emerging Trends in Nano-science & Nanotechnology (ICETNN-2021), held at Srinivasa University, Mangalore on August 6-7, 2021.
10. Presented a paper titled 'Synthesis, Characterization and Structural Studies of (E)-4-(2-amino-3,5-dibromo benzylideneamino) phenol' at the International Conference on Emerging Trends in Nano-science & Nanotechnology (ICETNN-2021), held at Srinivasa University, Mangalore on August 6-7, 2021
11. Presented a paper at the Virtual International Conference on Frontiers Research in Chemical Science (FRCS-2021), organized by the Department of Chemistry, Jyothi Nivas College (Autonomous), Bangalore, on November 13, 2021."
12. Presented a paper titled 'Effect of Fatty Acid Methyl Ester Composition on Engine Performance, Combustion and Emission Characteristics for Karanja Oil Methyl Ester' at the National Conference on Evolving Techniques in Mechanical Engineering '12, held at Sri Venkateshwara College of Engineering and Technology, Thirupachur, in August 2012.
13. Presented a paper titled 'A New Spectrophotometric Method for the Determination of Hydrogen Peroxide' at the National Conference on Nano and Material Science (NMS 2015), held on December 21, 2015, organized by Dayanand Sagar University, Bangalore
14. Presented a paper titled 'Determination of DPPH Free Radical Scavenging Activity by RP-HPLC: A Rapid and Sensitive Method for Screening of Berry Fruit Juice Freeze-Dried Extract' at the National Conference on Recent Trends in Mechanical Engineering and Applied Sciences (RTMEAC-2018), held on May 17, 2018, at Sri Krishna Institute of Technology, Bangalore
15. Presented a paper titled 'Viscoelastic Properties and Rheological Characterization of Topical Herbal Formulations' at the National Seminar on 'Recent Advances in Material Science', held on February 5, 2019, organized by the Department of Chemistry, Field Marshal K.M. Cariappa College, Madikeri, affiliated to Mangalore University
16. Presented a paper titled 'To Determine the Sun Protection Factor (SPF) by Using UV-Visible Spectrophotometer for Topical Herbal Formulations' at the National Conference on 'Recent Advances in Engineering Technology & Science 2K19', held on April 26-27, 2019, organized by Shridevi Institute of Engineering and Technology, Tumakuru.
17. Presented a poster titled 'Green Synthesis of Cadmium Ferrite Nanoparticles via Microwave Assisted Combustion Method for Detecting Emerging Contaminant Bisphenol A in Water Sources' at the 1st Indian International Conference on Water Quality Management (IICWQM-2023), held at the Indian Institute of Science (IISc), Bangalore, from December 6-8, 2023."
18. Presented a paper titled '5-((3-phenoxyphenyl)diazenyl)quinolin-8-ol (PPDQ): A Novel Promising Anticorrosive for Mild Steel in Acid Media, Antioxidant and Facile Nitrite Sensing Azo Dye' at the International Conference on Electronics, Mechanical and Nanotechnology (ICEMN-2023), held at Srinivas University, Mangalore, from December 29-30, 2023.
19. Presented a paper titled 'Optimized Acid-Amine Coupling Approach Towards the Synthesis of Pharmacologically Potent Pyridine Fused Thiazole Carboxamide Derivatives'

at the International Conference on Electronics, Mechanical and Nanotechnology (ICEMN-2023), held at Srinivas University, Mangalore, from December 29-30, 2023.

20. Presented a poster titled 'Synthesis, Characterization and Corrosion Inhibition Evaluation of a New Chalcone Derivative 2-3-(3-Hydroxyphenyl)-1-[4-(1H-imidazol-1-yl)phenyl]prop-2-en-1-one for Mild Steel Corrosion in Acidic Media Assessment with DFT & MD Studies' at the International Conference on Electronics, Mechanical and Nanotechnology (ICEMN-2023), held at Srinivas University, Mangalore, from December 29-30, 2023
21. Presented a poster titled 'Exploring the Alpha Amylase Inhibition Potency and Anti-Counterfeiting Properties of Newly Synthesized Bis Schiff Base Derivative: Experimental and In Silico Approach' at the International Conference 'ChemConvergence2025: Advancing Chemistry Through Multidisciplinary Innovations', organized by the Department of Chemistry, Madanapalle Institute of Technology & Science, in association with The Indian Photobiology Society, Jadavpur University Campus."
22. Participated in the two-day seminar on National Association for Application of Radioisotopes and Radiation in Industry, conducted by Mangalore University and NAARRI, Mumbai, on 29-30th, 2006
23. Participated in the Two days seminar on National Association for application of Radioisotopes and Radiation in Industry, conducted by Mangalore University and NAARRI, Mumbai on 29-30th 2006
24. Participated in the Two days seminar on Frontiers in Chemistry, conducted by Department of Chemistry, Mangalore University and Jawaharlal Nehru Center for Advanced. Scientific Research, Bangalore on 12-13th 2008.
25. Participated in the One day, Workshop on “Outcome Based Education” Conducted under TEQIP at Sri Siddhartha Institute of Technology on 6th April 2013
26. Participated in the One Week Workshop on “Nano Material in Science and Engineering” Conducted under TEQIP at Sri Siddhartha Institute of Technology on 25th to 29th March 2014
27. Participated in the Two days’ Workshop on “Heuristic Approach to engineering Research” Conducted under TEQIP at Sri Siddhartha Institute of Technology,29th to 30thDec 2014
28. Participated in the Science Academies'' lecture workshop on “Recent Trends in Material Science and Material Research” conducte4d by Sree Siddaganga College of Arts, Science and Commerce, Tumkur on 21st to 22 February 2014
29. Participated in the One day workshop on “Quality Assurance, Professional Ethics and Social Concern in Engineering Domain” conducted by SSIT-IQAC on 31st October 2019
30. Participated in the "Decoding Examination During and Post COVID
31. Organized the Science Academies'' lecture two day workshop on “Recent Trends in Chemistry and Biochemistry (RTCB 2012)” in Department of Chemistry in association with Mechanical Engineering Department, held at Sri Siddhartha Institute of Technology , 17th and 18th February 2012
32. Organized the Two day workshop on “Polymers and Composite Materials” (Sponsored by TEQIP 1.2) in department of Chemistry in association with Mechanical Engineering Department, held at SSIT , 17th and 18th February 2012
33. Organized the Two day workshop on Applications of Polymers in Automobile and Aerospace Industry” (Sponsored by TEQIP 1.2) in association with Mechanical

Engineering Department, held at Sri Siddhartha Institute of Technology , 4th and 5th December 2014

34. Organized the National conference on “Recent Advances in Industrial Engineering and Applied Chemistry (NCRAIEAC-2016)” on 21st and 22nd Oct 2016 at SSIT
35. Organized the Technical Talk on “Better Living Through Green Chemistry” on 13th March 2017
36. Organized the One-Day Intensive and Hands-on Workshop on “Fundamentals of High Performance Liquid Chromatography (HPLC)” on 1st December 2018
37. Organized the One-Day Intensive and Hands-on Workshop on “Fundamentals of High Performance Liquid Chromatography (HPLC)” on 1st December 2018
38. Organized the International Virtual Conclave on Digital Currency

FACULTY DEVELOPMENT PROGRAMMES

1. Participated in a one-day Staff Development Programme (FDP) held at Akshaya Institute of Technology, Tumkur, on November 28, 2009
2. Participated in a One week Industry Certification training Programme on “Catalysis Practical Approach” conducted under TEQIP at Bangalore Institute of Technology, Bangalore on 11th to 15th November 2013.One week Industry Certification training Programme on “Catalysis Practical Approach” conducted under TEQIP at Bangalore Institute of Technology, Bangalore on 11th to 15th November 2013.
3. Participated in Five day workshop on “Pedagogical Skill Develoment Traing for Engineering College Teachers” Conducted under TEQIP at Sri Siddhartha Institute of Technology on 15th to 19th June 2015.
4. Participated in Five day FDP Programme on ''Management Capacity Enancement Programme'' conducted in Indian Institute of Management, Bangalore on 7th – 11th Sept 2015
5. Participated in One day Faculty Development Programme on “ Methods of Creative and Innovative Teaching Skills” on 14th June 2019, Organized by IQAC, Vidyodaya Law College, Tumakuru.
6. Participated in Five-day FDP on “Science of new-age materials for advanced technological application” held from 25-4-2022 to 29-4-2022, Organized by Acharya Institute of technology, Bangalore

TECHNICAL TALK DELIVERED / SESSION CHAIRED

1. Delivered an invited talk on 'Recent Trends in Engineering Plastics' at the Faculty Development Programme (FDP) on 'Advanced Materials for Science and Engineering (AMSE-2019)', held at MSRIT, Bangalore, from January 28 to February 2, 2019."
2. Delivered an invited talk at the International Conference on Emerging Trends in Nanoscience & Nanotechnology (ICETNN-2021), held at Srinivas University, Mangalore.
3. Chaired a session at the International Conference on Emerging Trends in Nanoscience & Nanotechnology (ICETNN-2021), held at Srinivas University, Mangalore."

LIST OF PUBLICATIONS

1. G.N. Kiran, T.S. Sunil Kumar Naik, G. Vishnu, **K. Sunil**, K.S. Venkatesh, T. Jeevananda, O. Nagaraja, Praveen C Ramamurthy. Sustainable Cobalt Ferrite Nanostructure Sensor for Trace-Level Mesalamine Detection. *Sensors and Actuators A: Physical, 117853.*
2. Pradeep Kumar P S. KJeevan C A. Sathya Narayana. **Sunil K**. Buchwald cross-coupling for synthesis of novel N-imidazolyl-N′-aryl ureas and application in bioassay: ADMET profiling, docking and cytotoxicity studies. *Naunyn-Schmiedeberg's Archives of Pharmacology, 2026 https://link.springer.com/article/10.1007/s00210-026-05278-w.*
3. K. Pruthviraj, Rajas M. Rao, B. S. Chethan & **K. Sunil**. Synthesis, photophysical and DFT studies of a benzothiadiazole-based bis-Schiff base derivative and its in-silico evaluation as a Sonic Hedgehog protein inhibitor. *Molecular Physics,* (2026) e2615021
4. K. Pruthviraj, B. S. Chethan, N. K. Lokanath , Nagaraju Maithra & **K. Sunil**. A multifunctional tris Schiff base: from forensic imaging to in silico COX-2 inhibition. *Molecular Physics,* 2026 e2648571.
5. Nagesha A. Pruthviraj K.1. Arvind Babu. Chethan B.S. and **Sunil K**. Design, Synthesis, Characterization and Antibacterial potency evaluation of Novel 4-(1,3,4-oxadiazol-2-yl) phenol derivatives. *Res. J. Chem. Environ.* 30, 3 (2026) 87-91.
6. M Nagaraja, S Prashanth, Praveen, J Pattar, S R Manohara, **K Sunil**. Tuning electrical conductivity and dielectric properties of chitosan/polyaniline by doping with varying concentration of Nb2O5 nanoparticles. *Solid State Ionics*, Volume 437, 2026, 117129.
7. T. Sharada, B.S. Chethan, K. Manjunatha, B. Pramodh, Bhuvan Kulkarni, P. Harisha, G.M. Shweta, S.V Niranjana, N.K. Lokanath, M.P. Sundaresha, K. Sunil. Synthesis, Crystal Structure, DFT, and Drug-Likeness Evaluation of an Oxadiazole-Based Compound with Biological Potential. *Journal of Molecular Structure.* 1360 (2026) 145549
8. G.N. Kiran, T.S. Sunil Kumar Naik, Jinu Joji, G. Vishnu, K. Sunil, Praveen C. Ramamurthy. Nanostructured cadmium ferrites: A smart sensor platform for Lead (II) ion detection. *Sensors and Actuators A: Physical*, Volume 399, 2026, 117382.
9. D Darshan, C Santhosh, K Ravi Singh, BS Chethan, TN Lohith, MP Sadashiva, K Sunil, P Hemalatha. Synthesis, structural elucidation, Hirshfeld surface, DFT, pharmacophore, and in silico studies of a piperonal derivative: A study based on experimental and theoretical methods. *Journal of Molecular Structure*, Volume 1352, Part 2, 15 February 2026, 144555.
10. S Kishor Prasad S. D.C. Vinay Kumar B.S. Chethan, K. Pruthviraj, S.V. Niranjana, S Kenchanna Neetha, K. Manjunatha, B. Pramodh, N.K. Lokanath and **K Sunil* '**Structural and computational investigation of the novel Isatin derivative: Exploration of the pharmacokinetic and drug properties' *Journal of Molecular Structure,* 1349 (2026) 143674.
11. Keerthan Kumar S.V. Sanjay Srivatsan, N. Maithra, B.S. Chethan, K Pruthviraj, S V Niranajna, , Chih-Hsin Chen, **K Sunil***, N.K. Lokanath. 'Exploring the inhibition of VEGFR2 tyrosine kinase domain by a novel Schiff base: Crystallographic and computational approaches towards anticancer potential'. *Journal of Molecular Structure*, 1332 (2025) 141552.
12. Vidyashree. G, Praveen B.M, K. Manjunatha, Manohar R. Rathod, Bharath K. Devendra, **K. Sunil**, Shweta G.M, Vijaylaxmi T. Talawar. 'Synthesis, characterization and corrosion inhibition evaluation of a new chalcone derivative 2-3-(3-hydroxyphenyl)-1-[4-(1H-

imidazol-1-yl) phenyl] prop-2-en-1-one for mild steel corrosion in 1M HCl assessment with DFT and MD studies' *Results in Surfaces and Interfaces*, 17 (2024) 100336.

13. K Pruthviraj, R Chadrakumar, NS Dinesh Babu, BS Chethan, N Narayana Hebbar, H Ramesha, N Maithra, NK Lokanath, **K Sunil**. Design, synthesis of a novel Schiff base derivative with fluorescence behavior: A structural and DFT based study, Journal of Molecular Structure 1334, 2025, 141806
14. A Babu, C Remya, AM Sajith, KV Dileep, K Sunil, The complex interplay between ligand strain, coulombic interactions, and binding site dynamics of two congeneric AChE inhibitors. Journal of Molecular Structure, (2025)141479
15. K. Pruthviraj and Sunil K. Synthesis and Characterization of tert-butyl 3-(((2-hydroxynaphthalen1-yl)methylene)amino)-4-(4-(trifluoromethyl)phenyl)piperidine-1 carboxylate: A piperidine clubbed Boc protected versatile building block for multi functionalized chemical reactions. *Journal of Applied Research and Technology,* 23 (2025) 103-107.
16. S Srivatsan, N Maithra, BS Chethan, K Pruthviraj, SV Niranajna, **K Sunil**. Exploring the inhibition of VEGFR2 tyrosine kinase domain by a novel Schiff base: Crystallographic and computational approaches towards anticancer potential, Journal of Molecular Structure 1332, 2025, 141552
17. K Pruthviraj, BS Chethan, NK Lokanath, SV Niranjana, NN Hebbar, **K Sunil,** Schiff base derived from 2-hydroxy napthaldehyde as anti-corrosive for mild steel in acid media: experimental investigation and theoretical modelling, Molecular Physics 123 (4), 2025, e2385580
18. M Hamsaveni, RR Hegde, B Sahana, BS Chethan, K Pruthviraj, N Maithra, **K Sunil**. Synthesis, biological evaluation of novel pyridine derivative as antibacterial agent: DFT, molecular docking and ADMET studies, Journal of Molecular Structure 1318, 2024, 139367
19. K Pruthviraj, H Ramesh, NK Lokanath, PC Kiran Poral, KS Devaraju, **K Sunil**, 5-((3-phenoxyphenyl) diazenyl) quinolin-8-ol (PPDQ): A Novel Promising Anticorrosive for Mild Steel in Acid Media, and a Pharmacologically Potent Antidiabetic, Antioxidant Azo Dye, Orbital: The Electronic Journal of Chemistry, 2024 198-204.
20. K Pruthviraj, BS Chethan, TN Lohith, NS Dinesh Babu, R Chandrakumar, **K Sunil**, Synthesis, evaluation of antimicrobial activity, and DFT analysis of 1-(4, 5-diphenyl-1H-imidazol-2-yl) naphthalen-2-ol, Indian Journal of Pharmacy & Drug Studies 3, 2024, 3
21. A Babu, **K Sunil**, AM Sajith, EK Reddy, S Santra, GV Zyryanov, NMI-SO_2Cl_2-Mediated Amide Bond Formation: Facile Synthesis of Some Dihydrotriazolopyrimidine Amide Derivatives as Potential Anti-Inflammatory and Anti, Pharmaceuticals 17 (5), 2024, 548
22. Madhu R. Pruthviraj K. Marulasiddeshwra M. B. Sreenivasa S., Sunil K. Suresh D and Shet Prakash M. Green Synthesis, Characterization of Silver Oxide Nanoparticles and its Photo Catalysis, Biological Studies. *Indian Journal of Natural Sciences*. 15,83 (2024) 72500.
23. Pruthviraj K. Chethan B. S. Ramesha H. Lokanath N. K. Kiran P. C. Devaraju K. S. Narayana Hebbar N. and Sunil K. E5-((3-phenoxyphenyl)diazenyl)quinolin-8-ol (PPDQ): A Novel Promising Anticorrosive for Mild Steel in Acid Media, and a Pharmacologically Potent Antidiabetic, Antioxidant Azo Dye. *Orbital: Electron. J. Chem*., 19,3, (2024) 198-204
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