

Jamal Mohamed College (Autonomous)

(Affiliated to Bharathidasan University)

Accredited (3rd cycle) with 'A' Grade by

NACCTiruchirappalli - 620 020

RESUME

PG and Research Department of Chemistry (SF)



1. Name : Dr. H. Mohamed Kasim Sheit

2. Designation : Assistant Professor

3. Qualification : M.Sc., M.Phil., Ph.D.,

4. Date of birth : 12.06.1985

5. Address:

Office : P.G & Research Department of Chemistry (SF),
Jamal Mohamed College (Autonomous),
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6. Educational Qualifications :

S.No.	Examination Passed	College / University	Year of Passing
1.	B.Sc. (Chemistry)	Jamal Mohamed College, (Bharathidasan University), Trichy.	2006
2.	M.Sc. (Chemistry)	Jamal Mohamed College, (Bharathidasan University), Trichy.	2008
3.	M.Phil (Chemistry)	Jamal Mohamed College, (Bharathidasan University), Trichy.	2009
3.	Ph.D (Chemistry)	Jamal Mohamed College, (Bharathidasan University), Trichy.	2018

7. SWAYAM/NPTEL Online Course Completed:

1. Online refresher course for “Higher Education In Chemistry”
2. Industrial Inorganic Chemistry

8. Experience : **Undergraduate:** 14 Years 05 Months
: **Postgraduate:** 09 Years 05 Months

9. Areas of Specialization : Corrosion Inhibitors, Inorganic Chemistry, organic Synthesis

10. Languages known : Tamil & English

11. Subjects Taught:

Under Graduate/ Postgraduate : 1. Inorganic Chemistry
2. Organic Chemistry
3. Physical Chemistry
4. Analytical Chemistry
5. Applied Chemistry
6. Green Chemistry and Nano chemistry
7. General Chemistry

12. Teaching Experience:

- **2009-2011:** Srinivasan College of Arts and Science (Affiliated to Bharathidasan University, Tiruchirappalli), Perambalur, Tamilnadu, India. (Handling Classes for Graduates and Post Graduates in Chemistry)
- **2011-2016:** Institute of Road and Transport Technology (Affiliated to Anna University Chennai) Erode, Tamilnadu, India.
(Handled Classes for B.E (Bachelor of Engineering) Graduates)
- **2016-Present:** Jamal Mohamed College (Autonomous) (Affiliated to Bharathidasan University, Trichy) Tiruchirappalli, Tamilnadu, India.
(Handling Classes for Graduates and Post Graduates in Chemistry)

- 13. Research Area of Interest:**
1. Corrosion Inhibitors
 2. Inorganic Metal Complex Synthesis
 3. Synthetic Organic Chemistry

14. Copyright filed in Government of India (Diary No. 20013)

Title: Novel composition for improved delivery of Drugs with poor aqueous solubility. (2022)

15. Patent filed in Government of India (Docket No: 24032)

Title: Microwave assisted one pot method for synthesizing fluorescent carbon dots from chayote seeds (2023)

16. Book Chapter in Environment and sustainable development ISBN “978-81-963506-0-4”:

Title: Assessment of corrosion inhibition ability of an aqueous extract of baccaurea ramiflora plant Leaves on mild steel immersed in 1M hydrochloric acid

17. Projects Guided:

✓ **Guided project for 30 M.Sc students**

18. Additional Responsibilities:

- ❖ Served as Hostel S u b -Warden in Srinivasan College of Arts and Science, Perambalur from 2010-2011.
- ❖ Served as Exam cell Member in Srinivasan C o l l e g e of Arts and Science, Perambalur from 2010-2011.
- ❖ In-charge, Preparation of Department time table in Institute of Road and Transport Technology 2012-2016.
- ❖ Acted as Examiner for Anna University Chennai central Valuation.
- ❖ Acted as Assistant Examiner for Anna University Chennai central Valuation.
- ❖ Acted as Internal and External Examiner for Anna University Practical Examinations
- ❖ Acted as in-charge in the Department Store-Keeping (2016-2022)
- ❖ Member of question setting and valuation board in Jamal Mohamed College, Trichy and Bharathidasan University, Trichy.
- ❖ Acted as Internal and External Examiner for Bharathidasan University Practical Examinations in various Colleges.
- ❖ Acted as Evaluator for Central Valuation for Bharathidasan University, Trichy conducted in Jamal Mohamed College from 2015-2023.
- ❖ Handled Moral Instruction classes for various department men students in Jamal Mohamed College, Tiruchirappalli, India, from 2018 to 2023.
- ❖ Acted as Web-In charge member of Department of Chemistry in Jamal Mohamed College from 2019 to till date

- ❖ Served as Curriculum Development Cell member of Department of Chemistry in Jamal Mohamed College from 2023 to till date

19. Details of Publications:

1. Asian Journal of Biochemical and Pharmaceutical Research 2017, 1(7) p. 43-49. **Title:** Influence of Aceclofenac 100 mg on Corrosion Resistance of SS 316 L Immersed in Artificial Saliva.
2. International Journal of Nano Corrosion Science and Engineering, 2017, 4(1) p.55- 64. **Title:** Corrosion behavior of 18 carat gold with artificial saliva in presence of Brufen 400 mg tablet.
3. Innovations in corrosion and materials science, 2017, 2(7), p.1.
Title: Electrochemical behavior of 18 carat gold with artificial saliva in presence of Ciprofloxacin and Nimesulide tablets.
4. International Journal of Scientific Engineering and Applied Science, 2017,4(3), p.1 -9. **Title:** Electrochemical behavior of 22 carat gold with artificial saliva in presence of aceclofenac 100 mg tablet.
5. International Journal of Nano Corrosion Science and Engineering, 2016, 3(2), p.1-18. **Title:** Influence of Ciprofloxacin on Corrosion Resistance of SS 316 L immersed in Artificial Saliva
6. International Journal of basic and applied research, 9(2), 438-450, 2019. **Title:** *Abrus precatorius* leaf aqueous extract as a Corrosion inhibitor on Mild steel in 1.0 M HCl solution.
7. Aegaeum Journal, 8(6), P.1311-1317, 2020.
Title: Inhibition Action of Corrosion on Ni- Ti Alloy with Artificial Saliva In The Presence of Three Different Tablets
8. International Journal of Research, 7(6), P. 156 -183, 2020.
Title: Corrosion inhibition of mild steel in sodium chloride solution by Glutaric acid
9. Bulletin of Environment, Pharmacology and Life Sciences. Special Issue (1), 549-556, 2022.
Title: Anti-corrosive effect of tablets on ni-ti alloy in presence artificial saliva.
10. Journal of Bio- and Tribo-Corrosion (**Springer**) **8**, Article number: 103 (2022)
Title: Anti-Corrosive Efficiency of Mild Steel in Sodium Chloride Solution Using 5-Acetyl-3-Phenyl-2, 6-Dipyridin-2-Yltetra-Hydropyrimidin- 4(1H)-1 Compound as an Inhibitor.
11. Journal of Polymer and Composite (Accepted)
Title: Anti-Corrosive Study of *Salvadora Persica* powder on orthodontic wire in the presence of Artificial Saliva

20. Details of Papers Presented:

- a. Presented a paper on Corrosion resistance of 18 carat gold with artificial saliva in presence of Neuro Kind tablet in the “National conference on computational and experimental physics of functional materials (NCCEPFM- 2016)” held at KSR College of Arts and Science, Tiruchengode-637 215 , on 16th & 17th December-2016.
- b. Presented a paper on Electrochemical study of 18 carat gold with artificial saliva in presence of aceclofenac 100 mg tablet in the “International conference on chemical and environmental research (ICCER- 2017)” held at Jamal Mohamed College (Autonomous), Trichy - 20, on 7th January-2017.
- c. Presented a paper on Corrosion resistance of 22 carat gold in artificial saliva In presence of Brufen 400 mg tablet in the “International conference on recent advances in the material Chemistry (ICRAMC - 2017)” held at SRM University, Kattankulathur, Chennai- 603 203 , on 15th – 17th February-2017.
- d. Presented a research Paper entitled “Corrosion behavior of SS316 L with Artificial Saliva in presence of nurokind tablet” in National Conference on Biomaterials in Chemistry (BMC2017) at Madurai Kamaraj University, Madurai, on 12-13th April 2017.
- e. Presented a paper on Corrosion behavior of SS 18/8 with artificial saliva in presence of aceclofenac 100 mg tablet in the “National level seminar on Frontier areas in the Chemical Sciences (FACS - 2017)” held at VHNSN College (Autonomous), Virudhunagar -626 001, on 22nd & 17th June -2017.
- f. Presented a paper on Corrosion resistance of SS 316 L in artificial saliva in presence of Brufen 400 mg tablet in the “International seminar on New perspectives in Science and Technology (INPST-2017)” held at ST.Antony’s College (Arts and Science for Women,Dindigul -626 005, on 11th October-2017.
- g. Presented a research Paper entitled “Corrosion resistance Ni-Ti Alloy with Artificial Saliva in Presence of Nurokind tablet” in National Seminar on Modern Trends in Chemistry at Sengamala Thayaar Educational Trust’s Womens College, Mannargudi, on 20th December 2017.
- h. Presented a research Paper entitled “Corrosion behavior of SS18/8 with artificial saliva in presence of Deriphyllin Retard 150 mg and Nimsulide 100 mg tablets” in International Conference on Frontiers in Advanced Materials and their Applications at Bishop Heber College (Autonomous) on 09th January 2018.
- i. Presented a paper on Corrosion Resistance Of Ni – Cr Alloy With Artificial Saliva In Presence of Deriphyllin Retard 150 Mg And Mg Tablets” in the National Conference on Recent Developments in Chemistry (NCRDC-2018) held at Jamal Mohamed College (Autonomous), Trichy - 20, on 20th January- 2018.

- j. Presented a paper on Corrosion Resistance Of Ni – Cr Alloy In Artificial Saliva In Presence of Aceclofenac 100 Mg And Ciprofloxacin 500 Mg Tablets International conference on chemical and environmental research (ICCER-2018)” held at Jamal Mohamed College (Autonomous), Trichy - 20, on 19th December-2018.
- k. Presented a paper on Corrosion Behaviour of Ni – Ti Alloy in Artificial Saliva in Presence of Aceclofenac 100 Mg and Ciprofloxacin 500 Mg Tablets” in the National Conference on Recent Trends in Chemistry of Materials (NCRTCM-2019) held at Bannari Amman Institute of Technology, Sathyamangalam, and Erode on 11&12 October 2019.
- l. Presented a research Paper entitled “Corrosion Resistance of SS 316L in Artificial Saliva in presence of Nimesulide 100 mg Tablet” in A state level seminar on Emerging Trends in Chemical Sciences -2K19 at GTN Arts College, Dindigul on 18th October 2019.
- m. Presented a research Paper entitled “Corrosion Resistance of SS 18/8 In Artificial Saliva in Presence of Three Tablets” International Conference on Emerging Trends in Materials for Energy & Biological Applications (ICEMEBA-2020), held at M. Kumarasamy College of Engineering Karur, on 7th March 2020.
- n. Presented a research Paper entitled “Electrochemical Study of Ni –Ti Alloy with Artificial Saliva in Presence of Dolo 650 Mg, Zinetac 150 Mg and Glycomet 500 Mg Tablets” International Conference on Emerging Trends in Materials for Energy & Biological Applications (ICEMEBA-2020), held at M. Kumarasamy College of Engineering Karur, on 7th March 2020.

21. Details of Seminars / Conferences / Workshops Participated:

- a. Participated in the state level workshop on “Organic farming production” (An Entrepreneurship Programme) organized by PG and Research Department of Microbiology, Jamal Mohamed College (Autonomous), Tiruchirappalli on 27 and 28th January 2017.
- b. Participated a One Day State level Symphoria-17 Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 31st January 2017.
- c. Participated in the three days NLP based Faculty Empowerment Programme organized by the IQAC cell, Jamal Mohamed college, Trichy on 17th, 19th and 20th June 2017. Participated a One Day State level Symphoria-18 Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 20th February 2018.
- d. Participated a One Day Orientation Programme on Soft Skills Development Organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), and Tiruchirappalli on 22nd June 2018.

- e. Participated in the Improving teaching practices – a strategic approach, organized by the IQAC cell, Jamal Mohamed college, Trichy on 23rd June 2018
- f. Participated in UGC CPE sponsored two day workshop on Professional Development for Academic Leadership in Curriculum Design organized by Curriculum Development cell, Jamal Mohamed College, Trichy on 18th and 19th Jan 2019.
- g. Participated a One Day State level Symphoria-19 Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 13th February 2019.
- h. Participated in the Staff enrichment programme on ownership culture, organized by the IQAC cell, Jamal Mohamed college, Trichy on 14th June 2019
- i. Participated “International Conference on Chemical and Environmental Research (ICCER-2020), conducted by the PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli -20 during 01st January 2020.
- j. Participated in the “Orientation Programme on MOOC’s and e-Learning”, Organized by the Department of Library, Jamal Mohamed (Autonomous) college, Tiruchirappalli, on 29th January 2020.
- k. Participated a One Day State level “JAM CHEM FEST-2020” Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), and Tiruchirappalli on 27th February 2020.
- l. Participated Jury a One Day “NATIONAL SCIENCE DAY” Organized by, Jamal Mohamed College (Autonomous), and Tiruchirappalli on 28th February 2020.
- m. Participated in the One day seminar on “Recent Advances in Chemical Sciences” (RACS-2020), Organized by the PG & Research Department of Chemistry, Urumu Dhanalakshmi College, Tiruchirappalli, on 02nd March 2020.

22. Details of Conference/ Faculty Development Programme/ Webinar/ Course/ Workshop Participated in ONLINE

- ❖ Participated in the Two Days International Virtual Conference on “Emerging Trends In Nanoscience and Nanotechnology” (ICETNN - 2021), organized by the college of Engineering and Technology, Srinivas University, Mangaluru, on 06th & 07th August 2021.
- ❖ Participated in the International Virtual Conference on “Innovative Strategies In Chemical Science and Thechnologies (ISCST2020)”, organized by the Department of Chemistry, Bhaktavatsalam Memorial College for Women, and

Chennai on 27th & 28th June 2020.

- ❖ Participated in the two days International Level Web Conference on “Smart Engineering Technologies 2020 (IWCSET - 2020), organized by Ramco Institute of Technology, Rajapalayam, during 26th & 27th June 2020.
- ❖ Participated in the two days International Level Web Conference on “New Pathways In chemistry” organized by the Department of Chemistry of N.G. Acharya & D.K. Marathe College of Arts, Science & Commerce, on 23rd & 24th May 2020.
- ❖ Participated Faculty Enrichment Programme on “Art of Writing Indexed Journal Publication”, organized by Department of Library Association with IQAC Cell, Jamal Mohamed College (Autonomous) Tiruchirappalli on 28th July 2021
- ❖ Participation in the 5 Days “Faculty Enrichment Programme,” Organized by the IQAC, Jamal Mohamed College (Autonomous), Tiruchirappalli on 21st to 25th June 2021.
- ❖ Participation in the 5 Days Faculty Development Programme on “E- Content Programme”, Organized by the IQAC, Jamal Mohamed College (Autonomous), Tiruchirappalli on 30th to 04th June 2020.
- ❖ Participation in the 2 Days Faculty Development Programme on “Digital Classroom”, conducted under DBT star College Scheme by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous) Tiruchirappalli on 23rd and 24th June 2020.
- ❖ Participated in the Four Days National Level Faculty Development Programme on “Chemistry In an Era of Change”, organized by Department of Chemistry, K. Ramakrishnan College of Engineering, Samayapuram, Trichy held on 13th to 16th July 2020.
- ❖ Participated in the Three Days Faculty Development Programme on “Journey of Nanomaterials For Intense Applications”, organized by Department of Chemistry Kongu Engineering College, and Perundurai from 07th to 09th July 2020.
- ❖ Participated in the 7 Days Online Faculty Development Programme on “Challenges In Cybercrime & Enforcement Of Cyber”, organized by Department of Computer Science and Engineering in association with Technical Partners CSI, CoDEF and NCDRC, Dr. M.G.R. Educational and Research Institute (Deemed to be University), Maduravoyal, Chennai from 6th to 12th July 2020.
- ❖ Participated in the 3 Days Faculty Development Programme on “Machine Learning and Artificial Intelligence”, Computer Society of India, and Kancheepuram Chapter held during 25th to 27th June 2020.
- ❖ Participated in the Faculty Development Programme on “Funding Opportunities for Research Projects”, conducted by the IQAC, Periyar E.V.R. College (Autonomous), Tiruchirappalli on 24th June 2020.

- ❖ Participated in the One Week Faculty Development Programme on “Advancements In Science and Its Applications In EGINEERING”, organized by Department of Science and Humanities, Hyderabad Institute of Technology & Management, Medchal, Hyderabad, and Telangana State, India from 22nd to 26th June 2020.
- ❖ Participation in the International Faculty Development Programme on “Advanced Materials For Sustainable Development”, organized by Department of Science and Humanities, Dr. N.G.P. Institute of Technology, Coimbatore on 15th to 19th June 2020.
- ❖ Participated in the Faculty Development Programme on “Research Capacity Building”, under UGC scheme, STRIDE Component -1, organized by V.O.Chidambaram College, Thoothukudi from 15th to 17th June 2020.
- ❖ Participated in the one day Online Faculty Development Programme on “Funding Schemes and Patenting Scientific Innovations”, organized by the IQAC and PG & Research Department of Chemistry, Government Arts College, Trichy on 13th June 2020.
- ❖ Participated in National Level E – Faculty Development Programme on “Road Map to Get a Quality Patent” organized by the Department of Electrical and Electronics Engineering, AMET Deemed to be University, held on 13th June 2020.
- ❖ Participated in National Level E – Faculty Development Programme on “Teacher the Ultimate & New Challenges in International Trade” organized by the Department of Management Studies (MBA), Dhanalakshmi Srinivasan Engineering College, Perambalur held on 12th June 2020.
- ❖ Participated in the 7 Days Faculty Development Programme on “Institutional Benchmarking Of Best Practices”, organized by 10 premier Institutes of India, Hosted by Dnyan Prabodhini Mandal’s, Shree Mallikarjun & Shri.Chetan Manju Desai College, Canacona from 8th to 14th June 2020.
- ❖ Participated in the 5 Days National Level Faculty Development Programme on the Topic “Creating Tech-Savvy Teachers For Future Classrooms”, organized by St. Teresa’s Institute of Education, Santacruz, Mumbai, India, in collaboration with Edify from 6th to 10th June 2020.
- ❖ Participated in the 5 days Online Faculty Development Programme on “Advanced Materials and Their Applications”, organized by the PG & Research Department of Chemistry, Auxillium College, Vellore, on 2nd to 6th June 2020.
- ❖ Participated in the 3 Days Faculty Development Programme on “Advanced Molecular Chemistry”, organized by PG & Research Department of Chemistry, Arulmigu Palaniandavar College of Arts & Culture, Palani held on 1st to 3rd June 2020.

- ❖ Participated in the International Faculty Development Workshop on “E- Learning and Tools for Effective Teaching And Learning” organized by Jnan Vikas Mandal’s Degree College, Airoli in Collaboration with Edfly on 29th May 2020.
- ❖ Participated in the 2 Days National Level FDP Program, “Faculty Development Program 2.0”, organized by North Storm Academy Presents, held on 13th and 14th May 2020.
- ❖ Participated in the National Level Online Faculty Development Programme on “Effective Usage of Ict Tools for Smart Teaching”, organized by Jayaraj Annapackiam College for Women, Periyakulam, and held between 9th & 14th May 2020.
- ❖ Participated in 4days online Faculty Development Program on “Research, Funding Projects & Ipr” jointly organized by IQAC, R & D cell & Department of Electronics & Telecommunication under the banner of IETE and Institution’s Innovation Council (IIC) of K.C. College of Engineering and Management Studies and Research, Thane, From 7th to 10th May 2020.
- ❖ Participated in the National Level Online Faculty Development Programme on “Digital Tools for Smart Classrooms in Higher Education”, organized by Jayaraj Annapackiam College for Women, Periyakulam, and held between 6th & 7th May 2020.
- ❖ Participated in an online Faculty Development Programme, organized by Department of Chemistry, D.K.M. College for Women, Vellore, and Tamil Nadu in association with Spoken Tutorial Project, IIT Bombay, MHRD, and Govt. of India from 04.05.2020 to 10.05.2020. The FDP included hands on exposure in “Gchem Paint and Libreoffice Suite Writer”.
- ❖ Participated in the “Faculty Delevopment Program On Outcome Based Education” Organized by Inpods Education Teach, on 1st May.
- ❖ Participated webinar on “Nano-Big Miracles With Small Particles”, organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous) Tiruchirappalli on 13th August 2021
- ❖ Participated webinar on “Emerging Materials For Solar Hydrogen Production”, organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous) Tiruchirappalli on 27th July 2021
- ❖ Participated in the Faculty Development Program, “Chemistry Behind MRI Contrast Agent”, organized by Department of Chemistry, Cauvery College for women, Trichy, held on 4th May 2020.
- ❖ Participated in the “Research Workshop”, organized by Birds (Bell Institute of Research and Development Studies) from 25th to 29th June 2020.
- ❖ Participated in the 6 Days “Virtual Organic Chemistry Lecture Series”, organized by the Department of Chemistry, Sathyabama Institute of Science and Technology, Chennai on 22nd to 27th June 2020.

- ❖ Participated in the 3 days National Level “E – Workshop on “Analytical Instruments”, organized by the Department of Chemistry & IQAC of C.V. Raman University, Kargi Road Kota, and Bilaspur (C.G) from 15th to 17th June 2020.
- ❖ Participated in the online training program on “E – Learning Through PowerPoint Presentation” conducted by Department of Chemistry, Vivekananda College of Arts and Science For Women (Autonomous), Tiruchengode, on 26th May 2020.
- ❖ Participated in the State level online “Infograph Making Competition 2020” organized by the Department of Chemistry, Shri Vyankatesh Arts, Commerce & Science College, Deulgaon Raja Dist. Buldana, Maharashtra, on 8th May 2020.
- ❖ Participated in the “Chemdraw Online Workshop For Skill Development & Career Advancement”, organized by Genesin of Educational Impressions, Roorkee, Uttarakhand, India, on 5th May 2020.
- ❖ Participated in the 2 days online course on “Elemental Arts: Evolution Of Modern Periodic Table”, Organized by Department of Science and Humanities (Chemistry), Sri Krishna College of Engineering and Technology, Coimbatore, on 1st & 2nd May 2020.
- ❖ Participated in the “Moodle Learning Management System Training” Organized by Vidyavardhini College of Engineering and Technology, Spoken Tutorial Project, IIT Bombay on 27th April 2020 to 2nd May 2020. (Online Training)
- ❖ Participated in the 3 Days International Online Workshop on “The Role Of Language And Researcher”, organized by the Department of English, Immaculate College for Women, Viriyur, from 27th to 29th April 2020.
- ❖ Participated in the 2 days online course on “Household Electrical Devices & Appliances” Organized by Department Physics, AVS College of Arts & Science, Salem , From 20.04.2020 & 21.04.2020.
- ❖ Participated in the 3 days online course on “Basic Principles Of Spectroscopy” Organized by Department of Chemistry, AVS College of Arts & Science, Salem, From 17.04.2020 & 19.04.2020.
- ❖ Participated in the 2 days online course on “Medical Laboratory Techniques” Organized by Department of Microbiology & Biotechnology, AVS College of Arts & Science, Salem, From 16.04.2020 & 17.04.2020.