



Dr. HARI KRISHNA S.M.Sc, M.Phil, Ph.D

Professor & Head Department of Science & Humanities,



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QUALIFICATION

Ph.D. title **“Investigation of The Potential of Some Plant Extracts to Inhibit the Corrosion of Mild Steel in Corrosive Media.”**



Dynamic Responsibilities

1. IQAC, Director
2. Head Department of Science & Humanities
3. Secretary, Sri Sairam College of Engineering Alumni Association
4. Head, Research Centre- Chemistry

EXPERIENCE

Research: 5 Years.

Teaching:18.5Years.

- **Working as an Associate Professor & Head, Department of BSc(Hons), Science & Humanities, Sri Sairam College of Engineering .**
- **Worked as Assistant Professor From 2005 to 2016 at Sri Sairam College of Engineering.**

AWARDS

1. **“I2OR International Academic Excellence Award 2023”** From I2OR on 24/01/2023
2. **“Best Educator Award”** From GOREA on 29th April 2019 at Hyderabad, India.
3. **“Young Scientist”** from ASDF, SIAA 2018 on 7th of April 2018
4. **“Bharat Vikas Award,”** from Institute of Self Reliance, on **19/11/2017** at press club of Odisha, Bhubaneswar.
5. **“Best Teacher”** for academic Year 2016-2017, on **5th sept 2017**, Sri Sairam College of Engineering
6. **“Award for Research Excellence”** from Indus Foundation , USA, on **24/07/2017** at HOTEL Lalit Ashok, Bangalore. Event was graced by Sri. Muralidhar Halappa, Chairman, KSDC
7. **“Open Research Award”** from Confederation of Education Excellence, Delhi, on **22/04/2017** at Hotel Crown plaza, New Delhi. Event was graced by Dr. Udit Raj (Ex IRS) MP Lok Sabha.



PROJECTS

1. Fund Rs3 Lakh has been sanctioned from VGST for the Project titled “**Corrosion & Tribological Study of Natural Particulate Filled Aluminum Hybrid Metal Matrix Composite**” for the Academic Year 2020-2021.
2. Preparing hand Sanitizer For enter college a step towards Atmanirbhar Bharat
3. Prepared Disinfectant
4. 3 Teams Under my Mentorship has been selected for “**Toycathon 2021**” Grand Finale



GUIDESHIP

- 1) Guided 2 students for M.Phil
- 2) Guiding 2 students for Ph.D in VTU
- 3) Guiding 1 student for Ph.D at Pacific University



ACHIEVEMENTS

1. **100%** Result in chemistry in **April 2009, April 2011** VTU exam
2. Above **90%** Result in all other VTU exams
3. **100%** Result in all Environmental studies VTU exams.
4. **100%** Result in all chemistry VTU Lab exams.
5. **Guided two students for M.Phil.**



PROFESSIONAL MEMBERSHIPS

1. Life member in the **Electrochemical Society of India, Indian Institute of Science, Bangalore**
2. Member of **ISTE Chapter**
3. **CGER** Life Member
4. **ISR**D Fellow Member
5. **IEEE** Member

CITATIONS– Courtesy Google scholar

<u>Citations</u>	1189
<u>h-index</u>	13
<u>i10-index</u>	17



Patents

- 1) **Development of Smart System to Avoid Triples & Over Speed Control in 2 wheelers**
Application No- 202041033794



Books/ Chapters

- 1) Published a Book Titled “ Chemical Processing & Safety” With ISBN **9781304880826**
- 2) Published a Book Titled “ **Applied Chemistry For Computer Science Engineering**” as per VTU 2022 scheme with ISBN **978-93-5842-068-5**
- 3) Published a Book Titled “**Chemistry Lab Manual for Engineers**” as per VTU 2022 scheme with ISBN **978-93-5515-894-9**
- 4) Published a Book Titled “**BSc (Hons) Chemistry Laboratory**” as per VTU syllabus with ISBN **978-93-5515-754-6**
- 5) Published a Book Titled “**Engineering Chemistry**” as per VTU new scheme & NEP in March 2022 with ISBN **978-93-5515-220-6**
- 6) Written & Published a Book titled “**Organic Chemistry-1(VTU PhD Course Work)**” with ISBN **978-93-5473-700-8**
- 7) Published a Book Titled “**Engineering Chemistry Hand Book**” with ISBN **978-93-5408-333-4** in Jan 2021
- 8) Published a Chapter Titled “ **Kinetics (or) Experimental evidence for the mechanism of an SN¹ reaction.**” with ISBN **978-93-90781-04-1** by ESN Publications India in 2021
- 9) Developed **Engineering Chemistry Laboratory manual** for 1st year Engineering students which is been used by entire college



Invited Talks

- 1) Acted as **technical session chair** on “08-07-2022” in the 4th International Conference “**Recent Innovations in Science & Technology (RIST 2022)**” conducted on 08th & 09th July 2022, organized by ERANAD Knowledge City Technical Campus, Malappuram, Kerala, India in association with ISET Research & HEXAIND Technologies and Services.
- 2) Resource person for one day webinar on “ **Recent Trends in Science & Technology**” Organised by Saphthagiri College of Engineering, Bangalore on 05/06/2020
- 3) Given **Career Guidance Program** in several PU Colleges in South Bangalore for 2nd PU students on What next after plus 2
- 4) Invited as **Guest** for College Day of St Meeras PU college, Ulsoor, Bangalore on 14/02/2017



ICT Resources Developed

- 1) Developed Google sites for Engineering Chemistry in which Profile, Lesson plan, Lecture Notes of all modules & sample videos are uploaded.
- 2) Uploded lecture Videos in College Youtube Channel in turn uploaded in Google Classroom.
- 3) Lecture Videos & Notes of all modules is prepared & uploaded in Google Classroom. Assignments too given in Google Classroom.
- 4) Online classes have been taken in Google Meet & Zoom Platform



PAPERS PUBLISHED IN INTERNATIONAL JOURNALS

Sl.No	Title Of Paper	Authors
WOS/SCI Publications		
1	Possibilities of Prediction of COVID 19 using K-Nearest Neighbour Algorithm, <i>IEEE Explore, Dec 2022</i>	<i>Dr.Hari Krishna S</i>
Scopus Publications		
1	Corrosion Resistance of Al6061-Basalt Natural filler and Zircon Hybrid Composite Material in Acid media <i>Materials Today, Jan 2021</i>	Dr.Hari Krishna S
2	“Inhibition of Corrosion of mild steel in 2M HCl by Determination of optimal experimental parameters using Factorial Design - A preliminary study” in <i>International Journal of ChemTech Research, Vol.10 No.4, pp 397-403, 2017</i>	Dr.HariKrishna S,Dr.AbidaBegum, Irfan Ulla Khan
3	“Factorial Design Application For The Protection Of Mild Steel From Corrosive Medium Using Castor Seed Oil As Inhibitor” <i>International Journal of ChemTech Research, Vol.6, No.4, pp 2385-2390, July-Aug 2014</i>	HariKrishna S,Dr.AbidaBegum
4	“Antibacterial Potential and Corrosion Inhibition Efficiency Of Emblica Officinalis (Amla)” <i>International Journal of ChemTech Research, Vol.6, No.2, pp910-915 , Apr-Jun 2014</i>	Dr.HariKrishna S, Dr.AbidaBegum
5	“Performance of Fenugreek (<i>Trigonellafoenumgraecum</i>) Seed Extract As Inhibitor On Mild Steel Under Corrosive Medium- A Statistical View” <i>International Journal Of ChemTech Research, Vol.5, No.4, pp 1829-1834, April- June 2013</i>	Dr.HariKrishna S, Dr.Abida Begum
6	“Adsorption and Inhibitive Properties of Coffee seed (<i>Coffeearabica</i>) Extract on Mild Steel in Hydrochloric acid” <i>International Journal of ChemTech Research Vol.4, No.3, pp991-995, July-Sept 2012</i>	Dr.HariKrishna S,Dr.Abida Begum
7	Bioaccumulation Of Trace Metals By Aquatic Plants, <i>International Journal of ChemTech Research, Vol 2,No.1, Jan- Mar, pp250-254</i>	Abida Begum, HariKrishna.S
8	Monitoring Air Pollution Using Lichens Species in South Bangalore, Karnataka, <i>International Journal of ChemTechResearch, Vol 2,No.1, Jan-Mar, pp255-260</i>	Abida Begum, HariKrishna.S
9	Phytoremediation study of Aquatic Macrophytes collected from five lakes of Bangalore, Karnataka <i>International Journal of ChemTech Research Vol.2, No.1 Jan-Mar 2010,pp250-254</i>	Abida Begum, S. HariKrishna

10	A Survey of persistent organochlorine pesticides residues in some Streams of the Cauvery River, Karnataka, India, <i>International Journal of ChemTech Research</i> , Vol.1, No.2, pp 237-244, April-June 2009	Abida Begum, S. HariKrishna , Irfanulla Khan
11	Analysis of Heavy metals in Water, Sediments and Fish samples of Madivala Lakes of Bangalore, Karnataka, <i>International Journal of ChemTech Research</i> , Vol.1, No.2, April-June 2009, pp245-249	Abida Begum, S. HariKrishna
12	Analysis of Fluoride level in water and fish species of Sankey, Bellandur and Madivala Lakes of Bangalore, <i>Rasayan Journal of Chemistry</i> , Vol 1, No.3, (2008) pp572-580	Abida Begum, S. HariKrishna , Irfanulla Khan
13	Analysis of Fluoride level in water and fish species of Sankey, Bellandur and Madivala Lakes of Bangalore <i>Rasayan J. of Chem.</i> Vol.1, No.4 2008, pp596-601	Abida Begum, S. HariKrishna , Irfanulla Khan
14	Environmental fluoride level in Anekal Taluk of Bangalore District, <i>Rasayan J. of Chem.</i> Vol.1, No.4 2008, 774-781	Abida Begum, S. HariKrishna , Irfanulla Khan
15	Nutrients & Heavy Metal Profile of Madivala Lake, Bangalore South, Karnataka. <i>Rasayan J. of Chem.</i> Vol.1, No.3, 2008, 572-580	Abida Begum, S. HariKrishna , Irfanulla Khan
UGC Journals Publications		
1	"Corrosion & Wear Resistance of Al6061 Basalt & Zirconium Oxide Composite Material In Acid Media," in <i>JETMR</i> , May 2019, Vol 6, Issue 5, ISSN :2349-5162	Dr.HariKrishna S
2	"Phytochemical Investigation And Study On Corrosion Inhibition Properties Of Pongamia Pinnata (L) Pierre Leaf Extract" <i>Elixir International Journal, Elixir Corrosion</i> 62(2013), pg 17908-17911	Dr.HariKrishna S , Dr.Abida Begum
3	Evaluation of Corrosion inhibitory properties of Naphtho[2,1-b]furan derivatives on mild steel in sulphuric acid, P5 59-65 CODEN - JESIA 61 [2-3] 46 - 94 , 2012 ISSN:0013-466X, Vol.No-61, No.2-3, April-July 2012	Abida Begum, Ramaiah.M , S. HariKrishna , Irfanulla Khan and Veena K
4	Influence of sewage sludge compost on the cultivation of Maize (<i>Zea mays L.</i>) www.eco-web.co March 2011	Abida Begum, HariKrishna.S
5	Pathogens and Heavy metals concentration in green leafy vegetables <i>International Society Of Environmental Botanist, Environews</i> , March 2010	Abida Begum, S. HariKrishna
6	Evaluation of Some Tree Species to Absorb Air pollutants in three industrial locations of South Bengaluru, <i>E-Journal of chemistry</i> , vol. 7, No.S1, 2010, S151 –S156	Abida Begum, S. HariKrishna

7	Pathogens and Heavy metals concentration in green leafy vegetables, <i>E-Journal of chemistry</i> , vol. 7, No.S1,2010, S552 –S558	Abida Begum, S. HariKrishna
8	Analysis of Heavy metals concentration in Soil and Lichens from Various localities of Hosur Road, <i>E-Journal of Chemistry 2009,6(1),pp13-12</i>	Abida Begum, Ramaiah.M , S.Harikrishna , Irfanulla Khan and VeenaK
9	Heavy Metal Pollution and Chemical Profile of Cauvery River water, <i>E-Journal of Chemistry 2009,6(1),pp47-52</i>	Abida Begum, Ramaiah.M ,S.Harikrishna ,Irfanulla Khan and VeenaK
10	Enhancement of the Inhibitor Efficiency of Atropine Methochloride in Corrosion Control of Mild Steel in Sulphuric Acid, <i>E-JChem, vol 5, No. 4 Oct. 2008,pp774-781</i>	Abida Begum, S. HariKrishna ,Irfanulla Khan and Veena K
11	Cost effective method of removal of fluoride from waste water,“, <i>Nature Environment and pollution control Journal</i> April 2008 Vol 11 No.3.pp64-67	Abida Begum, S. HariKrishna , Irfanulla Khan
12	Nutrients and Heavy metal profile of Madivala Lake Bangalore South, <i>Nature Environment and pollution technology journal</i> vol.8 No 1.,2009,pp171-178	Abida Begum, S. HariKrishna , Irfanulla Khan



PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCES

- 1) Presented a paper in **International Conference on Advances in Materials, Ceramics & Engineering Sciences on 17th & 18th Jan 2020** titled “*The lichen value diversity & evaluating the effect of Acidity*” Organised by DSCE & Jointly with ICS - Karnataka Chapter and Department of Nanotechnology,
- 2) Presented a paper in **International Conference ICASET-2019** Organized by IFERP on **25th & 26th April 2019** titled “*Corrosion & Wear Resistance Of AL6061-Basalt And Zircon Hybrid Composite Material In Acid Media*”
- 3) Presented a paper in **International Conference i7c** Organized by IFERP on 16th & 17th Nov 2017 titled “*Comparative Studies of Corrosion Inhibitive Properties of Benzofuran-2-Carboxylic acid & Amla Leaves on mild steel in acid media.*”
- 4) Presented a paper in **International Conference On Electrochemical society & Technology (ICONEST-2017)** Organized By Electrochemical Society Of India, IISC, Bangalore during 10th -12th Aug 2017 titled
- 5) Presented a paper in **International Conference On ILAFM-2016** organized by RV College of Engineering, Bangalore, on **21st & 22nd Dec 2016** Titled “*Determination Of The Optimal Experimental Parameters Using Factorial Design For The Corrosion Inhibition of Mild Steel In 2M HCL- A Preliminary Study.*”
- 6) Presented a paper in “**National Conference On RACC 2015 Organized By DayanandSagar University , On 16th Dec 2015 at DayanandSagar University, Bangalore, titled “*Phytochemical Analysis & Corrosion Inhibition Efficiencies Of Plant Extracts For Mild Steel In Acid Medium*”**
- 7) Presented a paper in **International Conference On Electrochemical society & Technology (ICONEST-2014)** Organised By Electrochemical Society Of India, IISC, Bangalore during 7th -9th Aug 2014 titled “*Corrosion Inhibition Of Mild Steel Using Castor Seed Oil As Inhibitor- A Factorial Design Application*”
- 8) Presented a paper in “**National Conference on Challenges And Opportunities For Chemical Sciences In 21st Century**” Organised by Karnataka state Higher Education Council & Tumkur University, on **8th Jan 2013**, held at Karnataka state Higher Education Council Bangalore, titled “*Spectrophotometric Method For The Determination Of Iodate Using Brilliant Blue FCF.*”
- 9) Presented a paper in “**National Conference on Frontiers And Challenges In Biological Organometallic Compounds**” (FCBOM-2013) Organised in MSRIT, Bangalore from **20-21 June 2013**, titled “*Statistical analysis for the Performance of Fenugreek (Trigonella foenum graecum) seed aqueous extract as corrosion inhibitor on mild steel in 2 M hydrochloric acid.*”

- 10) Presented a paper in “ **National Conference on “Scope of Advanced Materials in Energy & Environment” (SAMEE2013)** organized by the Department of Chemistry at CMR Institute of Technology, held on 7-8 August ,2013 titled “*Antibacterial potential and corrosion inhibition efficiency of Emblica officinalis (Amla) of emblica officinalis (amla)*”
- 11) Presented a paper in “**National Conference On Recent Advances In Functionalized Materials**” (RAFM-12) conducted in MSRIT, Bangalore from **24-25 Jan 2012**, titled “*Corrosion inhibition efficiency of Fenugreek (Trigonella foenum graecum) seed extract on mild steel under corrosive media- A comparative study.*”
- 12) Presented a paper in “**International Conference On Recent Advances In Materials Sciences**”(RAMS-2012) Organised by Karnataka state Higher Education Council at Atria Hotel, Bangalore from **6th -8th Nov 2012**. The paper titled “*Mylius Thermometric Technique to study Corrosion Inhibition Efficiency Of Coffee Seed (Coffee Arabica) Extract On Mild Steel Under Corrosive Media.*”
- 13) Presented a paper in “**National Symposium On Electrochemical Science & Technology**” Organized by , IISC, Bangalore India, from July16-17/2010. The paper titled “*Corrosion Inhibitive Properties of Benzofuron-2-carboxylic acid in the presence of halides for mild steel*”
- 14) Presented a paper in “**National Symposium On Electrochemical Science & Technology**” Organized by , IISC, Bangalore India, from July16-17/2010. “*Synergistic effect of addition of Ni²⁺ and Cu²⁺ in the presence of halides on the corrosion inhibition behavior of mild steel using Schiff's Base as inhibitor*”



WORKSHOPS / SEMINARS PARTICIPATED

- 1) Attend 5 day FDP on “ Alternate Fuels” organised by AICTE under ATAL jointly with Donbisco Institute of Technology from 21/09/2020 to 25/09/2020
- 2) Participated in One week FDP on “**Interdisciplinary Approaches to Promote Sustainability Using Green Technology**” sponsored by TEQIP-III organised University College of Engineering & Technology, Bikaner, from 16th sep 2020 to 20th sept 2020
- 3) Participated & completed short term training program on Human Values, Morals, Ethics, Behavioural Science & Attitude Sponsored by AICTE & organised by KIIT Collge of Engineering, Haryana, from 10th sept to 15th sept 2020
- 4) Participated in 5 day FDP on “**The role of Advanced materials & Nanotechnology in Present Scenarion**” organised by Vemana Institute of Tchnology, Bangalore in asociation with Royal Society of Chemistry from 22/06/2020 to 26/06/2020

- 5) Organized & Attended International Conference on “ **Education 4.0**” from **10/08/2020 to 14/08/2020** at Sri Sairam College Of Engineering College, Bangalore.
- 6) Attended 10 day(3+7) workshop on Student Induction Program Conducted by AICTE, organised at SVCE Bangalore & JSS University, Mysore from 20/6/2018 to 23/6/2018 & 9/7/2018 to 15/7/2018 respectively.
- 7) Organized & Participated in **3 day Faculty Development Program Titled “Innovative Teaching Pedagogy & Student Management”** On 14th, 15th & 18th July 2016 at Sri Sairam College Of Engineering College, Bangalore.
- 8) Organized & Participated in **4 days Faculty Development Program “Outcome Based Education & Road Map For Accreditation ”** From 18th to 21st January 2017 at Sri Sairam College Of Engineering College, Bangalore.
- 9) Participated in One day workshop on “**Wealth from Waste**” on 19th June 2015, Organised by Electrochemical Society of India, IISC, Bangalore
- 10) Participated in four day faculty development program on “**IPR, Stress management & effective counseling Techniques**” from 01/01/15 to 05/01/15 At Sri Sai Ram college of Engineering, Anekal
- 1) Participated in two day workshop on “**Applications Of Polymers In Automobile & Aerospace Industry** ” on 3rd & 4th Dec 2014, Organized by SSIT, Tumkur
- 2) Participated in One day workshop on “ **Basic Science Syllabus For BE Students**” Organised by UB DTCE, Davangere, on 19th Aug 2014
- 3) Attended Total Quality Management Training Program on 23rd August 2014.
- 4) Attended Total Quality Management Training Program on 22nd and 23rd July 2014
- 5) Participated in “ **Five Day Faculty Skill Enrichment Programme**” From 20th -24th Jan 2014 Organized by Shirdi Sai Engineering College, Bangalore
- 6) One day workshop on “**Water And Water Treatment**” Conducted by Electro chemical Society Of India, IISC, Bangalore, in association with KSPCB, Bangalore and Council Of Scientific & Industrial Research, New Delhi, held at IISC campus on **30th Jan 2013.**
- 7) Two day workshop on “ **Seminar On Eco-Friendly Metal Finishing Process & RoHS Compliance Processes**” organized by Electro chemical Society Of India, IISC, Bangalore, in collaboration with Council Of Scientific & Industrial Research, New Delhi, held at IISC campus on **14th & 15th June 2012.**

- 8) Two day workshop conducted by ISTE chapter on **17th& 18th Nov 2011** at PESIT campus, Bangalore
- 9) Attended workshop on “**Micro Fabrication and Nano Technology**” from **23rd to 25th September 2010** at ShirdiSai Engineering College Anekal , Begaluru-562106
- 10) One day workshop on “**Recent Advances In Electrochemical and Surface Science And Engineering**” Organized by Department Of Chemistry, BNMIT, Bangalore, on **26th Aug 2010**
- 11) Participated in “**HRD Programme**” Conducted at IHA, Bangalore, On 29th to 30th Jan 2010
- 12) Participated in One day workshop on “**Hazardous Waste management**”Organized by Acharya Institute Of Technology, Bangalore,on 29th Sept 2006



PERSONAL DETAILS

Name: Dr HARI KRISHNA.S

Fathers Name: SUBBIAH.V

Date of Birth:24-02-1983

Hobbies: Listening to music

Gender: Male

Marital Status: Married

Languages Known: English , Kannada, Telugu ,Hindi, Tamil

DECLARATION

I hereby declare that the above-mentioned particulars are true to best of my knowledge and belief.