



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

Associate 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:17.5Years.

- 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 29<sup>th</sup> April 2019 at Hyderabad, India.
3. "Young Scientist" from ASDF, SIAA 2018 on 7<sup>th</sup> 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 5<sup>th</sup> 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** Fellow Member
5. **IEEE** Member

## CITATIONS– Courtesy Google scholar

Citations 1146

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## 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 “**Chemistry Lab Manual for Engineers**” as per VTU 2022 scheme with ISBN **978-93-5515-894-9**
- 2) Published a Book Titled “**BSc (Hons) Chemistry Laboratory**” as per VTU syllabus with ISBN **978-93-5515-754-6**
- 3) Published a Book Titled “**Engineering Chemistry**” as per VTU new scheme & NEP in March 2022 with ISBN **978-93-5515-220-6**
- 4) Written & Published a Book titled “**Organic Chemistry-1( VTU PhD Course Work)**” with ISBN **978-93-5473-700-8**
- 5) Published a Book Titled “**Engineering Chemistry Hand Book**” with ISBN **978-93-5408-333-4** in Jan 2021
- 6) Published a Chapter Titled “ **Kinetics (or) Experimental evidence for the mechanism of an SN<sup>1</sup> reaction.**” with ISBN **978-93-90781-04-1** by ESN Publications India in 2021
- 7) Developed **Engineering Chemistry Laboratory manual** for 1<sup>st</sup> 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 webniar 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 2<sup>nd</sup> 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) Uplaoded 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
<b>WOS/SCI Publications</b>		
1	Possibilities of Prediction of COVID 19 using K-Nearest Neighbour Algorithm, <i>IEEE Explore, Dec 2022</i>	<i>Dr.Hari Krishna S</i>
<b>Scopus Publications</b>		
1	Corrosion Resistance of Al6061-Basalt Natural filler and Zircon Hybrid Composite Material in Acid media <i>Materials Today, Jan 2021</i>	<b>Dr.Hari Krishna S</b>
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>	<b>Dr.HariKrishna S,Dr.AbidaBegum, Irfan Ulla Khan</b>
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>	<b>HariKrishna S,Dr.AbidaBegum</b>
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>	<b>Dr.HariKrishna S, Dr.AbidaBegum</b>
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>	<b>Dr.HariKrishna S, Dr.Abida Begum</b>
6	"Adsorption and Inhibitive Properties of Coffee seed ( <i>Coffeaarabica</i> ) Extract on Mild Steel in Hydrochloric acid" <i>International Journal of ChemTech Research Vol.4, No.3, pp991-995, July-Sept 2012</i>	<b>Dr.HariKrishna S,Dr.Abida Begum</b>
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, <b>HariKrishna.S</b>
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, <b>HariKrishna.S</b>
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, <b>S. HariKrishna</b>

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, <b>S. HariKrishna</b> , 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, <b>S. HariKrishna</b>
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, <b>S. HariKrishna</b> , 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, <b>S. HariKrishna</b> , 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, <b>S. HariKrishna</b> , 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, <b>S. HariKrishna</b> , Irfanulla Khan
<b>UGC Journals Publications</b>		
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	<b>Dr.HariKrishna S</b>
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	<b>Dr.HariKrishna S</b> , 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 , <b>S. HariKrishna</b> , Irfanulla Khan and Veena K
4	Influence of sewage sludge compost on the cultivation of Maize ( <i>Zea mays L.</i> ) <a href="http://www.eco-web.co">www.eco-web.co</a> March 2011	Abida Begum, <b>HariKrishna.S</b>
5	Pathogens and Heavy metals concentration in green leafy vegetables <i>International Society Of Environmental Botanist</i> , Environews, March 2010	Abida Begum, <b>S. HariKrishna</b>
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, <b>S. HariKrishna</b>

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, <b>S. HariKrishna</b>
8	Analysis of Heavy metals concentration in Soil and Litchens from Various localities of Hosur Road, <i>E-Journal of Chemistry 2009,6(1),pp13-12</i>	Abida Begum, Ramaiah.M , <b>S.Harikrishna</b> , 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 <b>,S.Harikrishna</b> ,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, <b>S. HariKrishna</b> ,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, <b>S. HariKrishna</b> , 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, <b>S. HariKrishna</b> , Irfanulla Khan



## PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCES

- 1) Presented a paper in **International Conference on Advances in Materials, Ceramics & Engineering Sciences on 17<sup>th</sup> & 18<sup>th</sup> 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 **25<sup>th</sup> & 26<sup>th</sup> April 2019** titled “*Corrosion & Wear Resistance Of AL6061-Basalt And Zircon Hybrid Composite Material In Acid Media*”
- 3) Presented a paper in **International Conference** Organized by **IFERP** on **16<sup>th</sup> & 17<sup>th</sup> 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 **10<sup>th</sup> -12<sup>th</sup> Aug 2017** titled
- 5) Presented a paper in **International Conference On ILAFM-2016 organized by RV College of Engineering, Bangalore, on 21<sup>st</sup> & 22<sup>nd</sup> 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 16<sup>th</sup> 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 **7<sup>th</sup> -9<sup>th</sup> 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 21<sup>st</sup> Century**” Organised by Karnataka state Higher Education Council & Tumkur University, **on 8<sup>th</sup> 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 **6<sup>th</sup> -8<sup>th</sup> 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 Ni<sup>2+</sup> and Cu<sup>2+</sup> 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 16<sup>th</sup> sep 2020 to 20<sup>th</sup> 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 10<sup>th</sup> sept to 15<sup>th</sup> 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 14<sup>th</sup>, 15<sup>th</sup> & 18<sup>th</sup> 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 18<sup>th</sup> to 21<sup>st</sup> January 2017 at Sri Sairam College Of Engineering College, Bangalore.
- 9) Participated in One day workshop on “**Wealth from Waste**” on 19<sup>th</sup> 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 3<sup>rd</sup> & 4<sup>th</sup> 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 19<sup>th</sup> Aug 2014
- 3) Attended Total Quality Management Training Program on 23<sup>rd</sup> August 2014.
- 4) Attended Total Quality Management Training Program on 22<sup>nd</sup> and 23<sup>rd</sup> July 2014
- 5) Participated in “ **Five Day Faculty Skill Enrichment Programme**” From 20<sup>th</sup> -24<sup>th</sup> Jan 2014 Organized by Shiridi 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 **17<sup>th</sup>& 18<sup>th</sup> Nov 2011** at PESIT campus, Bangalore
- 9) Attended workshop on “**Micro Fabrication and Nano Technology**” from **23<sup>rd</sup> to 25<sup>th</sup> 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 **26<sup>th</sup> Aug 2010**
- 11) Participated in “**HRD Programme**” Conducted at IHA, Bangalore, On 29<sup>th</sup> to 30<sup>th</sup> Jan 2010
- 12) Participated in One day workshop on “**Hazardous Waste management**”Organized by Acharya Institute Of Technology, Bangalore,on 29<sup>th</sup> 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.