

**Dr. S. K. RAJAPPA**

**Associate Professor  
Department of Chemistry  
Karnatak University's,  
Karnatak Science College,  
Dharwad – 580 001, INDIA**



#### **ACADEMIC AND RESEARCH BACKGROUND**

Dr. S. K. Rajappa is a permanent teaching faculty in the Department of Chemistry, Karnatak Science College, Dharwad since march-2012. Currently I am working as an Associate Professor position having more than 20 years of teaching experience at post graduate, undergraduate and pre university levels and teaching Chemical Thermodynamics, Chemical Kinetics, Electrochemistry and Polymer Chemistry topics. Actively engaged in research since 2000 and developed several organic corrosion inhibiting materials for mild steel and zinc. Many of the synthetic inhibitors exhibited superior anti-corrosion and barrier properties for mild steel in highly corrosive environment. Also many eco-friendly bioactive compounds extracted from plant leaves and developed as efficient corrosion inhibitors. The expired drugs potentiality is re utilized and developed as inhibitors for mild steel corrosion. I have completed one major and one minor research projects funded by the UGC start-up grant, New Delhi and Seed grant project, Karnatak University, Dharwad respectively. I have successfully guided 02 students for their Ph. D. degree in chemistry, one research student submitted Ph. D thesis to the Karnatak University Dharwad for the award of Ph. D degree and 38 M. Sc Chemistry students for their dissertation work in the above areas of research. At present 4 students are working for their Ph. D. degree programme. I have published more than 36 papers and communicated 05 more research papers in peer reviewed international and national journals of repute, and presented the research findings in more than 45 national and international conferences. I have reviewed more than 25 research manuscript at different reputed journals. I have registered as a life member of few scientific and professional bodies such as Indian Society of Analytical Scientist (ISAS-Treasurer) Belagavi Chapter, HIM Science Congress Association, Himachal Pradesh and CHEM-FOURM, Karnatak University, Dharwad. I have organized national and international conferences under various capacities. I am working as the member of board of examinations (BOAE) and member of BOS at Karnatak University, Dharwad.

## PERSONAL DETAILS

Date of Birth: **February 08<sup>th</sup> -1973**



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**+91 836 221 5410**



**[drrajappask@gmail.com](mailto:drrajappask@gmail.com)**



**i) B. Sc : Physics, Chemistry & Mathematics, May-1995: (Govt. Science college,  
Chitradurga, Kuvempu University)**

**ii) M. Sc.: Industrial Chemistry : June: 1997 (Kuvempu University)**

**iii) Ph. D : Chemistry : March-2004 (Kuvempu University, Shimoga)**

**Title of the Thesis:** "Development of new chelating agents as zinc and steel corrosion inhibitors and surface treatment of zinc"

**Designation :** Associate Professor

## OBJECTIVES

- Adopting innovative teaching models
- Looking forward to slow learners
- Assisting to students in reaching their potential ambitions
- Commitment to students & Institutional success
- Share hands to examinations/administrations/college development works
- Focusing innovative research work

## TEACHING EXPERIENCES



**i) Pre University course:-** 09 years at Kalpaataru College, Tiptur, Tumkur (D)  
(Jan- 2003 to march-2012).

**ii) B. Sc & M. Sc courses:** Karnatak University's Karnatak Science college,  
Dharwad. Since March-2012 to till date

**iii) Ph. D Course work :** Since 2014 to till date

**Teaching topics:** Chemical Thermodynamics, Chemical Kinetics, Electrochemistry,  
Photochemistry, & Polymers

## RESEARCH EXPERIENCES



Actively engaged in Research since 2001

### RESEARCH AREA

- Development of various organic compounds as corrosion inhibitors for mild steel
- Extraction of various bioactive molecules and designed as eco-friendly inhibitors for mild steel in acid environment
- Focusing to reuse the potentiality of the discarded drug for combating mild steel corrosion
- Preparation of nano composites for modification of sensor for detection of bioactive molecules.
- Developing Next-generation Nano Structured Supercapacitor Transition Metal based Electrodes

## PROJECTS COMPLETED



- UGC-BSR Startup Grant “**Development of chromate free additives of primer paint as protective film on metals and its corrosion studies**” funded by UGC-BSR, New Delhi, Rs. 6,00,000/- during the year 2014-2016
- Minor project entitled “**Investigation of plants extract as corrosion inhibitors for mild steel in acid media**” funded by Seed money grant for research, PMEB, Karnatak University, Dharwad , Rs. 50,000/- during the year 2021-22

Research Publications: **36**

Research Manuscripts submitted: **05**

Number of papers presented at Conferences /Symposia: **45**

Number of Ph. D students Guided: Awarded = **02**. Thesis Submitted : 01

Number of Ph. D students working = **04**

Number of M. Sc Project students guided = **38**

## AWARDS (RESEARCH GROUP)

### Ph. D students received Best papers / Young Scientist awards under my guidance

- i) **Dr. S. K. Rajappa** received **Best Oral Presentation** award in International conference held on 20<sup>th</sup> January-2024 at K L Mehta Dayanand College for Women, Faridabad.
- ii) **Gurnath S Janakunvar & Dr. Rajappa S K** Jointly received **Best Oral Paper** award in International e-conference held on 11<sup>th</sup> & 12<sup>th</sup> Sept-2021, at HIM Science congress, HP
- iii) **Arjun G Kalkhambkar**, received **Best oral award** in National Conference held on 8<sup>th</sup> & 9<sup>th</sup> March-2019 at Mysore University, Mysore.
- iv) **Arjun G Kalkhambkar**, received **Young Scientist award** in International Conference held on 18<sup>th</sup> & 19<sup>th</sup> Oct-2019 at Srinivasa University, Mangalore.
- v) **Manohar Rathod**, received **Young Scientist award** in International Conference held on 18<sup>th</sup> & 19<sup>th</sup> Oct-2019 at Srinivasa University, Mangalore.
- vi) **Manohar Rathod**, received **Young Scientist award** in International Conference held on 7<sup>th</sup> Aug-2021 at Srinivasa University, Mangalore.
- vii) **Geeta D Pai** received **Young Scientist award** in International Conference held on 11<sup>th</sup> & 12<sup>th</sup> Nov-2022 at Srinivasa University, Mangalore.
- viii) **Savitri D Kotabagi** received **Best Paper for oral presentation** in 3days International Conference held on September 20 to 22<sup>nd</sup> -2023 at Gandhi Institute of Technology and Management, Bengalure.
- ix) **Ragini L Minagalawar** received **Best Research Scholar Award** in International Conference held on 29<sup>th</sup> & 30<sup>th</sup> Dec-2023 at Srinivasa University, Mangalore.

Google Scholar Citations : **362**, h-index : **11**, i10-index-**13**

## PROFESSIONAL AFFILIATIONS

- i) **Life member** : CHEM-FOURM, Karnatak University, Dharwad
- ii) **Life member** : HIM Science Congress Association, Himachal Pradesh
- iii) **Life member & Treasurer** : Indian Society of Analytical Science (ISAS), Belagavi Chapter.

## MEMEBR : BOARD OF EXAMINATION

- I) PG Department of Chemistry (General Chemistry sections), Karnatak University, Dharwad
- II) PG Department of Chemistry, University of Davanagere, Davanagere.

## GEUST LECTURES / INVITED TALKS

- i) **Resource person: Topic** “Chemical Bonding” at Orientation programme for PU teachers organized by PUE board, GOVT of Karnataka : 2007-07-15
- ii) **Resource person: Topic** “Metallurgy” at Orientation programme for PU teachers organized by PUE board, GOVT of Karnataka : 2007-07-17
- iii) **Resource person: Topic** “Fundamentals of NMR Spectroscopy” IQAC initiative Special Lecture Series at Govt. First grade college, Hubli. Dharwad: 2018-03-15
- iv) **Resource person: Topic** “Fundamentals of Electrochemistry & its Applications” in one day national webinar at Basvakalyana, Bidar, 2020-06-06
- v) **Guest Lecture:** Electrochemistry & Symmetry and Group theory for M. Sc Chemistry students at Govt. Science College, Hassan; (2007 & 2008)
- vi) **Guest Lecture:** Molecular Spectroscopy & Electroplating for M. Sc Chemistry students at IDSG Govt. Science College, Chikkamagalore; (2009 to 2012)

## OTHER ACTIVITIES/RESPONSIBILITIES

- i) Hostel warden: Krishana & Godavari boys hostel, Karnatak Science College, Dharwad since may- 2021
- ii) IQAC member for Criteria –VI, Karnatak Science College, Dharwad , since 2022
- iii) NSS programme Officer at Karnatak Science College, Dharwad from 2016-2019.
- iv) Treasurer & Organizing Secretary positions to conduct National & International Level Conferences in Department of Chemistry, KSCD.
- v) Deputy & Chief Superintendent positions for conducting, Karnatak University UG & PG Examinations. (Jan-2019 for PG & 2021 & 2022 for UG Course)
- vi) Coordinator for UG central valuation at Karnatak University, Dharwad (2016 to 2018 & 2022)
- vii) Chairman for Madam Curie study circle activities -2016 at KSCD.
- viii) Co-ordinator for Ph. D course work in Chemistry at Karnatak Science College, Dharwad (2018 & 2022 batches)
- ix) Member in anti Ragging cell & Task force committee at KSCD.

## LIST OF PAPERS PUBLICATIONS

Sl No.	Title, Journal with volume, Year and page No.s	First/Corresponding author	Coauthors	ISSN No. & Publisher
01	A study on the corrosion of steel and zinc in an electroplating acid baths  <i>Bull. Electrochem.</i> 17 (2001) 498-494.	<b>Rajappa S K /</b> T.V. Venkatesha	Y. Arthoba Nayaka	0256-1654  CECRI- Karaikudi
02	New condensation products as corrosion inhibitors for mild steel HCl acid medium <i>Ind. J. Engg. &amp; Mat. Sci.</i> , 9 (2002)213-217	<b>Rajappa S K /</b> T.V. Venkatesha		0975-1017  NISCAIR

03	Inhibition studies of few organic compounds and their condensation products on corrosion of zinc in HCl medium.  <i>Turkish J. Chem</i> , 27 (2003) 189-196	<b>Rajappa S K /</b> T.V. Venkatesha		1303-6130  TUBITAK
04	The Chemical treatment of zinc surface and its corrosion inhibition studies.  <i>Bull. Mat. Sci.</i> 31 (2008) 37-41.	<b>Rajappa S K</b>	Praveen B.M & T.V. Venkatesha	0250-4707  Springer
05	Corrosion inhibition studies of Patton and Readers indicator as a corrosion inhibitor for mild steel in hydrochloric acid medium.  <i>Int. J. Advances in Manag., Tech. &amp; Eng.Sci.</i> 2014, 4 (3) 63-66	<b>S. K. Rajappa,</b>		2249-7455
06	Corrosion Protection Studies of Modified Mild Steel Surface in Hydrochloric Acid Medium <i>Journal of Applicable Chemistry</i> , 2015, 4 (1) 212-220.	<b>Rajappa S K</b>	T.V. Venkatesh	2278-1862
07	Investigation of Corrosion Protection of Aluminium by Domperidone in Hydrochloric Acid Medium.  <i>Int. J. Innovative Res. Sci. Engg. and Tech.</i> 5 (3) (2016)	<b>Rajappa S K</b>	T.V. Venkatesh	2319-8753 IJIRSET
08	Effect of imines on corrosion rate of zinc in HCl medium.  <i>J. Electrochem. Soc. India</i> , 51 (2002) 54-58	<b>Rajappa S K /</b> T.V. Venkatesha		0013-466X  ECSI
09	Effect of imines on corrosion of mild steel in 2M HCl solution.  <i>J. Teach and Res. In Chem.</i> , 9 (2002) 34-39.	<b>Rajappa S K /</b> T.V. Venkatesha		0971-6408  ISTRCI
10	Surface modification of zinc by new organic compounds and its corrosion study.  <i>Der Pharm Chemica</i> , 3 (2011) : 565-575	Praveen B M/ T.V. Venkatesha	<b>Rajappa S K</b>	0975-413X
11	Investigation of condensation products of glutaraldehyde as corrosion inhibitors for mild steel in hydrochloric acid medium.  <i>International Journal of Multidisciplinary Research</i> , 2 (2013) 94-96	<b>S.K. Rajappa</b>		2277-9302
12	Studies on Electroactive organic compounds as corrosion inhibitors for mild steel in HCl medium.	<b>Rajappa S K</b>		2348-1625

	<b>Int. J. Engg. &amp; Technological Advances, 2014, 1 (4) 32-35.</b>			
13	Chemical and electrochemical studies of ranitidine as a corrosion inhibitor for mild steel in hydrochloric acid medium  <b>International Research Journal of Chemistry, 2014, 1 (1) 002-009</b>	<b>S.K Rajappa</b>	Praveen B M & T.V. Venkatesha	0278-5125
14	Corrosion inhibition studies of zinc and steel in hydrochloric acid medium  <b>Kuvempu University. Sciency Journal. 3 (2006) 88-95</b>	Praveen B M/ T.V. Venkatesha	<b>Rajappa S K</b>	2277-9523
15	Influence of furfuraldehyde derivatives as corrosion inhibition of mild steel in hydrochloric acid solution. <b>J. Mater. Environ. Sci., 2020, 11, (10), 1626-1641</b>	A.G. Kalkhambkar <b>S.K. Rajappa</b>	G. Janakunavar & K. Sujata	<b>2028-2508</b> JMES
16	Corrosion inhibition effect of <i>Cycas revoluta</i> leaves extract on corrosion of soft-cast steel in hydrochloric acid medium <b>Electrochem. Sci. Adv. 2021;e2100059</b>	M. R. Rathod, <b>S. K. Rajappa,</b>		2698-5977  Wiley
17	Investigation of Dolichandra unguis-cati leaves extract as a corrosion inhibitor for mild steel in acid medium <b>Current Research in Green and Sustainable Chemistry 4 (2021) 100113</b>	M. R. Rathod, <b>S. K. Rajappa,</b>	BM Praveen, DK Bharath	2452-2236 Elsevier
18	Corrosion protection of soft-cast steel in 1 M HCl with Araucaria heterophylla leaves extract. <b>Electrochem. Sci. Adv. 2021</b>	M. R. Rathod, <b>S. K. Rajappa,</b>		2698-5977  Wiley
19	Garcinia livingstonei leaves extract influenced as a mild steel efficient green corrosion inhibitor in 1 M HCl solution. <b>Materials Today: Proceedings 54 (2022) 786-796</b>	M. R. Rathod, <b>S. K. Rajappa</b>	A.A. Kittur	2214-7853 Elsevier
20	Effect of Artabotrys odoratissimus extract as an environmentally sustainable inhibitor for mild steel corrosion in 0.5 M H <sub>2</sub> SO <sub>4</sub> media <b>Journal of the Indian Chemical Society 99 (2022) 100445</b>	M. R. Rathod, S. K. Rajappa	M. L. Ragini	0019-4522 Elsevier
21	Investigation of African mangosteen leaves extract as an environment-friendly inhibitor for low carbon steel in 0.5 M H <sub>2</sub> SO <sub>4</sub> <b>Inorganic Chemistry Communications 140 (2022) 109488</b>	M. R. Rathod, <b>S. K. Rajappa</b>	BM Praveen, DK Bharath M. L. Ragini A.A. Kittur	1387-7003 Elsevier
22	Effect of (E)-2-furan-2-ylmethyleneaminoacetic acid on Corrosion protection of soft steel in HCl Environment <b>Asian J. Research Chem. 15(1): 2022</b>	A.G. Kalkhambkar <b>S.K. Rajappa</b>		0974-4150 Ajrc

23	Schiff's base Fufural Phenylhydrazone as a Potential Corrosion Inhibitor for Mild Steel in Hydrochloric Acid Solution <b>ADBU-Journal of Engineering Technology 11 (2)(2022)</b>	A.G. Kalkhambkar <b>S. K. Rajappa</b>		2348-7305 AJET
24	Effect of expired doxofylline drug on corrosion protection of soft steel in 1 M HCl: Electrochemical, quantum chemical and synergistic effect studies <b>Journal of the Indian Chemical Society 99 (2022) 100639</b>	A.G. Kalkhambkar <b>S.K. Rajappa</b>	Manjanna J G H Malimat	0019-4522 Elsevier
25	Saussurea obvallatta leaves extract as a potential eco-friendly corrosion inhibitor for mild steel in 1 M HCl <b>Inorganic Chemistry Communications 143 (2022) 109799</b>	A.G. Kalkhambkar <b>S. K. Rajappa</b>	Manjanna J G H Malimat	1387-7003 Elsevier
26	Effect of Schiff's bases on corrosion protection of mild steel in hydrochloric acid medium: Electrochemical, quantum chemical and surface characterization studies <b>Chemical Engineering Journal Advances 12 (2022) 100407</b>	A.G. Kalkhambkar S.K. Rajappa		2666-8211 Elsevier
27	Investigation of Laurus Tamala leaves extract as an environmentally acceptable corrosion inhibitor for soft steel in 1M HCl: Electrochemical, DFT, and surface characterization techniques <b>Indian Journal of Chemical Technology 30 (2023) 492-505</b>	Ragini L Minagalavar. S K Rajappa	Manohar R Rathod & Ashok M Sajjan	0975-0991 NISCAIR
28	Experimental and Theoretical Investigations of Cordia Obliqua Leaves Extract as an Environmentally Benign Inhibitor for Mild Steel Corrosion in a 1 M HCl Solution <b>Portugaliae Electrochimica Acta 42 (2024) 233-254</b>	Ragini L Minagalavar. S K Rajappa	Manohar R Rathod & Ashok M Sajjan	1647-1571 (Portuguese Electrochemical Society)
29	Investigation of corrosion inhibition performance of expired fluconazole drug for mild steel in 0.5M H <sub>2</sub> SO <sub>4</sub> medium <b>Journal of Molecular Liquids, 391 (2023)123291</b>	Ragini L Minagalavar. S K Rajappa	Manohar R Rathod & Ashok M Sajjan	0167-7322 (Elsevier)
30	Experimental and Theoretical Investigations of Cordia Obliqua Leaves Extract as an Environmentally Benign Inhibitor for Mild Steel Corrosion in a 1 M HCl Solution <b>Inorganic Chemistry Communications 160 (2024) 111900</b>	Ragini L Minagalavar. S K Rajappa	Manohar R Rathod & Ashok M Sajjan	1387-7003 (Elsevier)
31	Effect of tabebuia heterophylla plant leaves extract on corrosion protection of low carbon steel in 1M HCl medium: Electrochemical, quantum chemical and surface characterization studies. <b>Results in Surfaces and Interfaces 15 (2024) 100203</b>	Geeta D. Pai & Rajappa S K	Manohar R. Rathod , & A.A. Kittur	2666 -8459 (Elsevier)
32	Evaluation of vateria indicia leaves extract as a green source of potential corrosion inhibitor against mild steel corrosion in 1m HCl	Arjun G. Kalkhambkara , & S. K. Rajappa &	J. Manjanna	1424 – 8220 Taylor & Francis



	solution: electrochemical, and surface characterization studies <b>Sensing Technology, 2:1 (2024) 2345081</b>			
33	Corrosion mitigation of (E)-N-benzylidene-4-nitrobenzenamine on mild steel in acidic medium: Experimental and Theoretical Analysis <b>Chemical data collections 51 (2024) 101143</b>	Ragini L Minagalavar. S K Rajappa	Manohar R Rathod & Ashok M Sajjan	2405-8300 (Elsevier)
34	Development of novel, green, efficient approach for the synthesis of indazole and its derivatives; insights into their pharmacological and molecular docking studies <b>Journal of the Indian Chemical Society 101 (2024) 101178</b>	Susmita Susmita Rayawgol B et.al	Rajappa S.K	0019-4522 Elsevier
35	Sensitive electrochemical analysis of uricosuric drug sulfapyrazone using a grapheme-based sensor: A first voltammetric approach <b>Next Materials 7 (2025) 100346</b>	J G. Suma S. K Rajappa	YN Patil, MB. Megalmani & S.T. Nandibewoor	2949-8228 Elsevier
36	Evaluation of surface interaction of plant root extract components on mild steel surface in HCl medium: Electrochemical, and surface characterization approaches <b>Results in Surfaces and Interfaces 16 (2024) 100275</b>	SD Kotabagi S.K. Rajappa	Ragini L M. Manohar R & Ashok M Sajjan	2666 -8459 (Elsevier)

## PAPERS PRESENTED IN CONFERENCES / SEMINARS / WEBINARS

### INTERNATIONAL CONFERENCES / SEMINARS

Title of the Article	Presenting Author	Co-Author (S)	Programme name	Organiser	Date
1) Investigation of benzoic acid derivatives as surface modifier for mild steel in NaCl solution.	Rajappa S.K.	T.V. Venkatesh	Recent Advances in Material Science and Technology-2013	NITK Surathkal	January, 17-19, 2013
2) Investigation of condensation products of glutaraldehyde as corrosion inhibitors for mild steel in HCl.	Rajappa S.K.		International multidisciplinary conference	Bijapur, Karnatak	September 21 <sup>st</sup> - 2013
3) Development of benzaldehyde thiosemicarbazone as eco-friendly anticorrosion agent for zinc metal in NaCl solution	Rajappa S.K.		Environmental Management for sustainable development	Karnatak Science College, Dharwad,	December, 20-21, 2013

4) Studies on electroactive organic compounds as corrosion inhibitors for mild steel in HCl medium.	Rajappa S.K.		International Interdisciplinary conf.	CIMSR Pune	March 15 <sup>th</sup> 2014
5) Corrosion inhibition studies of Patton and Readers indicator as a corrosion inhibitor for mild steel in hydrochloric acid medium	Rajappa. S.K		35 <sup>th</sup> World Management Congress	Pune	December 29 <sup>th</sup> 2014
6) Role of nanoinhibitors on the corrosion control of metals	Rajappa S K		Int.nal Conf.on Nanotechno.	Srinivasa University, Mangalore, India	19-10-2019
7)Development of furfuraldehyde derivative as nano corrosion inhibitor	Arjun G Kalkham bkar	Rajappa. S.K	Srinivasa University	Mangalore	18 <sup>th</sup> & 19 <sup>th</sup> the Oct.-2019
8) Studies on Cycasia leaves extract as a corrosion inhibitor for mild steel in HCl medium	Manhor Rathod.	Rajappa S K	Srinivasa University	Mangalore	18 <sup>th</sup> & 19 <sup>th</sup> the Oct.-2019
9) Corrosion inhibition for mild steel.	Rajappa S K		Int.. webinar on Recent Innovations in Chem. Sci. Karnatak Sci. college,	Dharwad	4 <sup>th</sup> & 5 <sup>th</sup> Dec.-2020
10) Thermodynamic Properties (E) Furon -2-methylene-2-phenylhydrozone as corrosion inhibitor for mild steel in HCl medium	Arjun G Kalkham bkar	Rajappa S K	Int. webinar on Recent Innovations in Chem. Sci. Karnatak Sci. college,	Dharwad	4 <sup>th</sup> & 5 <sup>th</sup> Dec.-2020
11)Investigation of Dolichandra Unguis cati leaves extract as corrosion inhibitors for mild steel.	Manhor Rathod.	Rajappa S K	Int. webinar on Recent Innovations in Chem. Sci. Karnatak Sci. College,	Dharwad	4 <sup>th</sup> & 5 <sup>th</sup> Dec.-2020
12) Nano corrosion inhibition studies of furfuraldehyde derivatives on soft-cast steel in acid medium	Rajappa S. K		(ICETNN-2021)	College of Eng.& Tech., Srinivas University Mangaluru	6 <sup>th</sup> and 7 <sup>th</sup> August 2021.
13) Nano level surface activity studies of quinozonolinederivatives as corrosion inhibitor for mild steel in HCl soln.	Arjun G Kalkham bkar	Rajappa S K	(ICETNN-2021)	College of Eng.& Tech., Srinivas University Mangaluru	6 <sup>th</sup> and 7 <sup>th</sup> August 2021.
14)Corrosion protection of soft-cast steel in 1 M HCl with araucaria herophylla leaves extract	Manhor Rathod.	Rajappa S K	(ICETNN-2021)	College of Eng.& Tech., Srinivas University Mangaluru	6 <sup>th</sup> and 7 <sup>th</sup> August 2021.
15) Corrosion mitigation studies of mild steel using an imidozole derivative in 1M HCl soln	Gurnath S J	Rajappa S K	(ICETNN-2021)	College of Eng.& Tech., Srinivas University Mangaluru	6 <sup>th</sup> and 7 <sup>th</sup> August 2021.
16) Corrosion protection studies of treated zinc surface in aqueous chloride-sulphate medium	Rajappa S. K		(PSTDP-2021)	Him Science Congress Association	September 11 - 12, 2021
17)Saussurea obvallata leaves extract as	Arjun G	Rajappa	(PSTDP-2021)	Him Science	September

a potential a source of bioactive ecofriendly corrosion inhibitor for mild steel in HCl soln.	Kalkham bkar	S K		Congress Association	11 – 12, 2021
18)Anti corrosive performance of Garcinia livingstonei leaves extract as an effective green corrosion inhibitor for mild steel in 1 M HCl.	Manhor Rathod.	Rajappa S K	(PSTDP-2021)	Him Science Congress Association	September 11 – 12, 2021
19)“Development of Schiff Base Furfural Phenylhydrazone as Corrosion Inhibitor for Mild Steel in 2M HCl Solution”	Rajappa S. K		EMERGING FRONTIERS IN CHEMICAL SCIENCES-2021	Department of Chemistry, Farook College, Kerala	29 to 31, October 2021
20) EFFECT OF SCHIFF BASE ON CORROSION PROTECTION OF SOFT STEEL IN 2N HCl SOLUTION	Rajappa S. K		Inter.Virtual Conf.on Nano mat. Recent Devl & New Directions	Bishop Kurialacherry College for Women, Amalagiri, Kottayam, Kerala,	23 October 2021.
21) INVESTIGATION OF AFRICAN MANGOSTEEN LEAVES EXTRACT AS AN ENVIRONMENT-FRIENDLY CORROSION INHIBITOR FOR MILD STEEL IN 0.5M H <sub>2</sub> SO <sub>4</sub>	Rajappa S K		8 <sup>th</sup> Int. Scientific Research Conf.	Adana - Turkey	April 15 & 17 <sup>th</sup> 2022
22) Anticorrosion property of a green and sustainable inhibitor from leaves extract of tabebuia heterophyl plant	Geeta D Pai	Rajappa S K	ICON-2022	Srinivasa University	11 <sup>th</sup> 12 <sup>th</sup> Nov-2022
23)Ficus Krishnae plant Leaves extract as a potent green corrosion inhibitor for mild steel in 1M HCl medium	Savitri D Kotabagi	Rajappa S K	“Green Chemistry Solutions for Sustainable Future” (ICGCSSF-2023)	GITAM Deemed to be University, Bengalure	20 <sup>th</sup> -22 <sup>nd</sup> sep-2023.
24) Chemical and electrochemical investigation of white damar leaves extract as a potential source of green corrosion inhibitor against mild steel corrosion in 1M HCl solution	Rajappa SK		Recent technology in innovative smart system (RTISS-2024)	K L Metha Dayanada college for women, faridabad	20-1-2024

## NATIONAL CONFERENCES / SEMINARS

Title of the Article	Authors	Programme name	Organization	Dtae
1) A study on the corrosion of steel and zinc in an electroplating acid bath.	Rajappa S.K.	Indian Council of Chemists,	Dept. of Chemistry,Kuve mpu University	27-29 <sup>th</sup> , Nov.2000,
2)Development of zinc corrosion inhibitors for mild steel in HCl	Rajappa S.K.	10 <sup>th</sup> national Convection ofElectrochemists.	CECRI, Karaikudi.	26-27 Apr-2001,
3) Modification of zinc surface by a new organic chelating compound and its corrosion studies	Rajappa S.K.	Electrochemical Science and Technology-2001.	IISc. Bangalore.	20-21 july-2001,

4) Effects of imines on corrosion inhibition of zinc in HCl medium.	Rajappa S.K.	38 <sup>th</sup> Annual Convention of Chemists,	Jodhpur, India.	Dec. 27-30-2001
5) Corrosion inhibition studies on mild steel in HCl medium	Rajappa S.K.	Elec.Science and Tech.2002	IISc. Bangalore.	19-21 july-2002
6) Glutaraldehyde derivatives are the corrosion inhibitors for zinc in HCl medium	Rajappa S.K.	Recent Adv. Ele.che. and Sur. Sci. for industry and society	Dept. of Chemistry,Kuvempu University	3 <sup>rd</sup> &4 <sup>th</sup> , Dec-2004.
7) The chemical treatment of zinc surface and its corrosion inhibition studies.	Rajappa S. K	Emerging areas in Chem. & Bio. Sci.	Kuvempu University, Shimoga	23 <sup>rd</sup> & 24 <sup>th</sup> Marc-2007
8) Surface interaction of Glutaraldehyde derivatives for corrosion inhibition of mild steel in HCl	Rajappa S.K.	Recent trends in Chemical and Biological Sciences	Dept. of Chemistry,Kuvempu University	30 <sup>th</sup> ,31 <sup>th</sup> March-2010,
9) Investigation of surface interaction of acetone derivatives for mild steel corrosion in HCl	Rajappa S.K.	Recent trends in Analytical Techniques.	DRM Science College, Davanagere University-Davanagere	19 <sup>th</sup> Feb-2011.
10) Surface interaction of BTSC on zinc and its corrosion studies in acid medium	Rajappa S.K.	Emerging trends in chemistry with Emphasis on Env.	Vijaya College, Bangalore	23 <sup>rd</sup> Dec-2011
11) Studies on surface interaction of condensation products of Glutaraldehyde for the mild steel corrosion in HCl medium	Rajappa S.K.	Recent trends in Functionalised materials	M.S. Ramaiah Inst. of Tech. Bangalore	24 <sup>th</sup> & 25 <sup>th</sup> Jan-2012
12) Surface interaction of 4-[(1E)-2 furylmethylene] aminobenzene on zinc metal and its corrosion inhibition studies	Rajappa S.K.	Impact of Chemical Biology on Society	Kuvempu University, Shankaraghatta	April, 26-27, 2012
13) Surface modification of zinc with condensation products and its corrosion studies.	Rajappa S.K.	Recent advances in chemical biology- an over view	Govt. Science College, Hassan	March, 15-16, 2013
14) Studies on electroactive compounds for the corrosion inhibition of mild steel in HCl medium	Rajappa S.K	Frontiers & Challenges in Chemistry	Don Bosco Institute of Technology, Bangalore	Oct-10 <sup>th</sup> &11 <sup>th</sup> , 2013.
15) Effect of Patton and Readers indicator as a corrosion inhibitor for zinc in HCl solution	Rajappa S.K	App. of Spectr. in Str. Det. of Org. and Inorg. molecules.	Gokak Education Society, JSS, College, Gokak,	August, 22 - 23, 2014.
16) Corrosion inhibition studies of ranitidine on mild steel in hydrochloric acid medium	Rajappa S.K	PSCSTP-2014	Karnatak Science college, Dharwad.	October, 10 <sup>th</sup> & 11 <sup>th</sup> - 2014.
17) Chemical and Electrochemical studies of corrosion inhibition of domperidone for aluminium alloy in hydrochloric acid medium.	Rajappa SK	34 <sup>th</sup> Annual ICC, Conference	UKA Tarsadia University,Surat	Dec:26-28-2015
18) Investigation of CFTSC as a protective film on mild steel surface and its corrosion	Rajappa	Manipal Institute of tech.	Manipal	Jan 11 <sup>th</sup> & 12 <sup>th</sup> 2016

studies in acid medium	SK			
19) Chem. & Ele. Studies of condensation product as corrosion inhibitor for mild steel	Rajapp S.K	Recent advancement in Nano-Science & Tech. Govt. science college,	Chitradurga	21 <sup>st</sup> & 22 <sup>nd</sup> April-2017
20) Influence of glycine furfuraldehyde schiff base as corrosion inhibitor for mild steel in HCl.	Rajappa S. K.	Recent innovations in Medicinal & material chemistry. Mysore University	Mysore	8 <sup>th</sup> & 9 <sup>th</sup> March-2019
21) Effect of schiffs base as corrosion protection of mild steel in hydrochloric acid medium	Rajappa S. K	National E-conference on Advanced Research in Material Sciences Kamaraj College	Thoothkudi	22 <sup>nd</sup> & 23 <sup>rd</sup> Feb-2021