

FACULTY PROFILE:



1. Name (Block letters) : RAGHAVENDRA N.,
2. Mother tongue : Kannada
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10.Academic Qualifications: (from UG course)

Sl. No.	Qualification	University	Year of Passing	Class	Awards
1.	B.Sc (PCM)	Sri Siddaganga F G C Arts, Science & Commerce, College, Tumkur. (Tumkur University).	2010	First (84.33 %)	-
2.	M.Sc (Chemistry)	Kuvempu University	2012	3 <sup>rd</sup> rank (72.04 %)	-
3.	Ph.D (Chemistry)	Mangalore University	2019	-	-

11. Service particulars:

Sl. No.	Position	Year		Name of the Institution
		From	To	
1.	Assistant Professor	11-06-2018	Till date	K.L.E. society's P. C. Jabin Science College (Autonomous) Vidyanagar, Hubballi-580031

12. Research

a) Title of the Research : Electrochemistry, green chemistry

b) Projects applied/ : --

Title of Minor/major projects : --

Grant (in lakhs) : --

c) Projects completed/Submitted : Synthesis & antimicrobial activity of some Coumarin derivative containing 1,3, thiozole ring ( Acid amine coupling reaction using DCC reagent).

d) Publications :

**7. Research publications: In international journals (Web of Science, Scopus, UGC care list peer reviewed and UGC approved)- 76**  
**In Conference proceeding- 11**  
**Total citations- 439**  
**h-index- 12**  
**i 10-index-16**

## 10 Important research publications

Sl.no	Title	Journal and publisher	Impact factor
1.	Anti-corrosion performance of novel magnetic polyaniline-Chitosan nanocomposite decorated with silver nanoparticles on Al in simulated acidizing environment	International Journal of Biological Macromolecules and Elsevier	8.0
2.	Anticorrosive polyaniline-coated copper oxide (PANI/CuO) nanocomposites with tunable electrical properties for broadband electromagnetic interference shielding	Colloids and Surfaces A: Physicochemical and Engineering Aspects and Elsevier	5.5
3.	Application of green products for industrially important materials protection: An amusing anticorrosive behavior of tender arecanut husk (green color) extract at metal/testsolutioninterface	Measurement and Elsevier	5.1
4.	Polyaniline/V2O5 composites for anticorrosion and electromagnetic interference shielding	Materials Chemistry and Physics and Elsevier	4.7
5.	Conducting polymer based composites as efficient EMI shielding materials: A comprehensive review and future prospects.	Synthetic metals and Elsevier	4.0
6.	Promising EMI shielding effectiveness and anticorrosive properties of PANI-Nb2O5 nanocomposites: Multifunctional approach	Synthetic metals and Elsevier	4.0
7.	Biogenesis of silver nanoparticles and its multifunctional anticorrosion and anticancer studies	Coatings and MDPI	3.2
8.	Green approach to inhibition of corrosion of aluminum in 0.5 M HCl medium by tender arecanut seed extract: insight from gravimetric and electrochemical studies	Research on Chemical Intermediates and Springer	3.1
9.	Enhancing electromagnetic interference shielding effectiveness (EMI SE) of anticorrosive polypyrrole/zinc tungstate composites: multifunctional approach	Journal of Materials Science: Materials in Electronics and Springer	2.7
10.	Chemical Components of Mature Arecanut Husk Extract as Potential Corrosion Inhibitor for Mild Steel and Copper in both Acid and Alkali Media.	Chemical Engineering Communications and Taylor and Francis	2.5

### Patents

1. An advanced image processing technique for early detection of lung cancers and treating them through artificial intelligence enabled nano particles. (Indian Patent).
2. Machine learning approach to study and analyse the characteristics of various nano materials along with molecular structures for utilising in crop disease treatment (Indian Patent).

### List of Research Publications

1. **N. Raghavendra**, J. Ishwara Bhat (2016). Green approach to inhibition of corrosion of aluminum in 0.5 M HCl medium by tender arecanut seed extract: insight from gravimetric and electrochemical studies. Research on Chemical Intermediates. 42: 6351. (Publisher- **Springer**). **Impact factor: 3.1 (Scopus indexed)**.
2. **N. Raghavendra**, J. Ishwara Bhat (2016). Natural products for material protection: An interesting and efficacious anticorrosive property of dry arecanut seed extract at electrode (aluminum)–electrolyte (hydrochloric acid) interface. Journal Bio and Tribo Corrosion. 2: 21. (Publisher- **Springer**). **(Scopus indexed)**
3. **N. Raghavendra**, J. Ishwara Bhat (2017). Chemical and electrochemical studies on the Areca fat as a novel and sustainable corrosion inhibitor for industrially important materials in hostile fluid environments. Journal Bio and Tribo

- Corrosion. 3: 12. (Publisher- **Springer**). (**Scopus indexed**).
4. **N. Raghavendra**, J. Ishwara Bhat (2017). Inhibition of copper corrosion by arecanut seed extracts in 0.5 M HCl and 0.5 M NaOH environments. Corrosion and dye. 106: 46449. (**UGC approved**).
  5. **N. Raghavendra**, J. Ishwara Bhat (2017). An experimental approach towards anticorrosive potential of Areca fat species at aluminum/test solution (HCl/NaOH) interface. International journal of chemtech research. 10: 1003- 1013. (**UGC approved**).
  6. **N. Raghavendra**, J.Ishwara Bhat (2017). Inhibition of Al corrosion in 0.5 M HCl solution by Areca flower extract. Journal of King Saud University – Engineering Sciences. <https://doi.org/10.1016/j.jksues.2017.06.003>. (Publisher-**Elsevier**).(**Scopus indexed**).
  7. **N. Raghavendra** and J. Ishwara Bhat (2017). Red arecanut seed extract as a sustainable corrosion inhibitor for aluminum submerged in acidic corrodent: an experimental approach towards zero environmental impact ” Periodica Polytechnica Chemical Engineering. <https://doi.org/10.3311/PPch.10686>. **Impact factor: 1.7 (Scopus indexed)**
  8. **N. Raghavendra**, J. Ishwara Bhat (2017). Chemical Components of Mature Arecanut Husk Extract as Potential Corrosion Inhibitor for Mild Steel and Copper in both Acid and Alkali Media. Chemical Engineering Communications <http://dx.doi.org/10.1080/00986445.2017.1370709>. (Publisher-**Taylor and Francis**).**Impact factor: 2.5**
  9. **N. Raghavendra**, J. Ishwara Bhat (2017). Protection of Aluminum Metal in 0.5 M HCl Environment by Mature Arecanut Seed Extracts: A Comparative Study by Chemical, Electrochemical and Surface Probe Screening Techniques. Vol. 29(1), 77–99, 2018. (**Scopus indexed**).
  10. **N. Raghavendra**, J. Ishwara Bhat (2017). An environmentally friendly approach towards mitigation of Al corrosion in hydrochloric acid by yellow colour ripe arecanut husk extract: introducing potential and sustainable inhibitor for material protection. Journal Bio and Tribo Corrosion. 4:2. (Publisher- **Springer**). **Scopus indexed**.
  11. **N.Raghavendra**, J. Ishwara Bhat (2018). Anticorrosive Property of Arecanut Seed Extracts on 63400 Type Al in 0.1 M NaOH Solution. Research Journal of Chemistry and Environment. 22 (1):14-24 · **Scopus indexed**.
  12. **N.Raghavendra**, J. Ishwara Bhat (2018). An Amusing Anti-Corrosion Property of Areca Leaves Extract on Aluminum in 0.5 M HCl Environment. South African Journal of Chemistry. 71, 30–38. **Scopus indexed. Impact factor; 1.2**
  13. **N.Raghavendra**, J. Ishwara Bhat (2018). Benevolent Behavior of Arecanut Husk Extracts as Potential Corrosion Inhibitor for Aluminum in Both 0.5 M HCl and 0.1 M NaOH Environments". Journal of Bio-and Tribo-Corrosion. (Publisher-**Springer**). (2018) 4:44. **Scopus indexed**.
  14. **N.Raghavendra**, J. Ishwara Bhat (2019). Application of green products for industrially important materials protection: An amusing anticorrosive behavior of tender arecanut husk (green color) extract at metal/testsolution interface. Measurement. (Publisher-**Elsevier**). 135. 625–639. **Impact factor: 5.1 (Scopus indexed)**.
  15. **N.Raghavendra**, J. Ishwara Bhat (2018). An investigation of Al corrosion inhibition in hydrochloric acid medium by semi ripe arecanut husk extract: An environmentally friendly suitable green inhibitor. Euro-Mediterranean Journal for Environmental Integration. (**Springer**). **4:8. Web of science indexed**.
  16. **N.Raghavendra**, J. Ishwara Bhat (2018). Unripe Arecanut Seed Extract as a Natural Corrosion Inhibitor for Mild Steel (MS) in Acid and Alkali Media. Research Journal of Chemistry and Environment. 23: 56-64. 2278-4527. **Scopus indexed**.
  17. **N.Raghavendra**\_(2018) Surface protection of aluminum by non toxic corrosion inhibitor: Expired dettol soap in 3 M HCl medium. International Journal of Innovative Knowledge Concept. Issue 9, 2018 September, DOI 11.25835/IJK-176, 2415.
  18. **N.Raghavendra** (2018) Corrosion Studies of Mild Steel (MS) in 3 M HCl Solution in the Presence of Expired Perindopril Drug Mitigation of MS Corrosion by Green Corrosion Inhibitor. European Online Journal of Natural and Social Sciences. Vol.7, No 4 737-743. (**UGC care list journal**).
  19. **N.Raghavendra**\_(2018) Application of expired and impractical alprazolam drug as corrosion Inhibitor for Al in 3 M HCl environment. Journal of Science, Engineering and Technology. 6:35-42. 9732.
  20. **N.Raghavendra** (2018) Corrosion Studies of Carbon Steel in 3% NaCl Solution in the Presence of Expired Ceftin: Investigation of Environment Friendly Corrosion Inhibitor. Iranian Journal of Energy and Environment. 9 (4): 295-298.
  21. **N.Raghavendra** (2018) Expired Fluoxymesterone Drug as Sustainable Corrosion Inhibitor for Mild Steel (MS) in 3 M HCl Solution: Experimental Investigations Towards Mitigation of Metal Dissolution. International Journal of Chemistry and Materials Research. Vol. 6, No. 1, pp. 1-7. (**UGC approved**).
  22. **N.Raghavendra**, Pooja J Ganiger and Navyatha P Gaonkar (2019) Expired Karthika shampoo as eco-friendly inhibitor for aluminum corrosion in 3 M HCl solution. International Journal of Engineering Technology and Management Sciences (IJETMS). Volume No. 1, January. 4621. (**UGC approved**).
  23. **N.Raghavendra** (2019) Expired Amitriptyline drug as new nontoxic inhibitor protecting mild steel corrosion in 3 M HCl solution. Science letters. 7(1):132018023-SL. 3219. (**UGC approved**).
  24. **N.Raghavendra** (2019) Protection of aluminum, mild steel and carbon steel in 3 M sulfuric acid medium by acetaminophen:

- heterocyclic compound as anticorrosion agent. *Heterocyclic letters*. Vol. 9| No.1|63-69|Nov Jan|2019. 2230 – 9632. **(UGC care list journal)**
25. **N.Raghavendra** (2019) Areca Plant Extracts as a Green Corrosion Inhibitor of Carbon Steel Metal in 3 M Hydrochloric Acid: Gasometric, Colorimetry and Atomic Absorption Spectroscopy Views. *J. of Molecular and Engineering Materials (JMEM)*. DOI: 10.1142/S2251237318500041. 2251-2381. **(UGC care list journal)**
  26. **N. Raghavendra**, Leena V. Hublikar, S. M. Patil, Pooja J Ganiger, Anjali S Bhinge (2019) New Application of Expired Olopatadine Drug as a Non-toxic Corrosion Inhibitor for Copper Metal Submerged in HCl Environment. *Chemistry Research Journal*, 4(1):112-116. 8990.
  27. **N.Raghavendra** (2019) Corrosion inhibiting effect of 1, 1-bis(2-Naphthol containing two hydroxyl groups for Al in the harsh hydrochloric acid environment. *Journal on Future Engineering and Technology (JFET)*. 09732632, 6357. **(UGC approved)**.
  28. **N.Raghavendra** (2019) Expired Lorazepam tablet: A medicinal compound as green corrosion inhibitor for mild steel in hydrochloric acid system. *Chemistry Africa (Springer)*. **(Scopus indexed)**.  
<https://doi.org/10.1007/s42250-019-00061-2>. 5758.
  29. **N.Raghavendra** (2019) Conductometric Study on the Benzoic Acid in Water + Methanol Systems at Different Solution Temperatures. *Asian Journal of Nanosciences and Materials*.2: 350-355. **(UGC approved)**
  30. **N.Raghavendra** (2019) Inhibitive effect of expired Abarelix drug as a non-toxic corrosion inhibitor for mild steel in 3 M solution. *Journal of experimental research*. Vol 7 No 1. 0524. **(UGC approved)**
  31. **N. Raghavendra**, Leena V Hublikar, Anjali S Bhinge, Pooja J Ganiger (2019) Expired Famotidine as an Effective Corrosion Inhibitor for Copper in 3 M HCl Solution: Weight Loss and Atomic Absorption Spectroscopy Investigations. *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*. Volume 7 Issue III, Mar. **(UGC approved)**.
  32. **N. Raghavendra**, Leena V Hublikar, Pooja J Ganiger and Anjali S Bhinge (2019) Comparison study of expired lifebuoy and detol soap on the prevention of mild steel corrosion in the 5 % NaCl environment. Vol. 10, Issue, 03(A), pp. 30693-30696. *International Journal of Recent Scientific Research*. **(UGC approved)**
  33. **N. Raghavendra** (2019) Utilization of Expired Calcitriol as an Eco-friendly Corrosion Inhibitor on the Copper Metal in the Aerated Acidic Environment. *European Online Journal of Natural and Social Sciences*. Vol.8, No 2 206-211. **(UGC care list journal)**.
  34. **N. Raghavendra** (2019) Use of Expired Naftifine Drug as Corrosion Inhibitor for Copper in Hydrochloric Acid. *Journal of Advanced Electrochemistry*. Voume-5 (1).
  35. **N. Raghavendra** (2019) Theoretical approaches on the corrosion inhibition property of some important medicinal compounds against industrial imperative metals via computational methods. *Research Journal of Chemical*, Vol. 9(2), 1-10.
  36. **N. Raghavendra** (2019) The corrosion inhibitive action of expired lifebuoy soap on aluminum in 3 M HCl medium: Probabilistic Assessment towards inhibition of aluminum corrosion in hostile fluid environment. *Research Journal of Chemistry and Environment*.Vol. 23 (5). **(Scopus indexed)**.
  37. **N.Raghavendra** (2019) Latest exploration on natural corrosion inhibitors for industrial important metals in hostile fluid environments: a comprehensive overview. *Journal of bio and Tribo Corrosion (Springer)*. 5:54. **(Scopus indexed)**.
  38. **N. Raghavendra**, Leena V Hublikar, Pooja J Ganiger, Anjali S Bhinge (2019) Expired Ganciclovir Drug as Sustainable Corrosion Inhibitor on Mild Steel (MS) in 3 M HCl Solution: Atomic Absorption Spectroscopy, Potentiodynamic Polarization, Nyquist plot and Scanning Electron Microscopy Studies. *International Journal of Management, IT & Engineering*. Vol. 9 Issue 5. **2249-0558. (UGC approved)**.
  39. **N. Raghavendra**, Leena V Hublikar, B. N. Vasudeva Naik, Anjali S Bhinge, Pooja J Ganiger (2019) Expired Temazepam as a Corrosion Inhibitor for Mild Steel in Acidic Medium:Insight from Chemical and Surface Probe Researches. *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*. Volume 7 Issue V. **9653, 45842 & 47916. (UGC approved)**
  40. **N. Raghavendra**, Leena V. Hublikar, Anjali S. Bhinge, Pooja J. Ganiger (2019) Corrosion Inhibition Property Of Expired Fluoxymesterone Drug On The Aluminum (Al) Surface In 3 % NaCl Solution. *International Journal of Current Pharmaceutical Research*. Vol 11, Issue 3. **(UGC care list journal)**.
  41. **N. Raghavendra**, Leena V Hublikar, Pooja J Ganiger, Anjali S Bhinge (2019) Expired Ceftin as a corrosion inhibitor for mild steel in 3 % HCl solution. *IJGHC*, June 2019 –August 2019; Sec. A; Vol.8, No.3, 000-000. DOI: 10.24214/IJGHC/GC/8/3 /00000. *International Journal of Green and Herbal Chemistry*. **(UGC care list journal)**.
  42. **N. Raghavendra** (2019) The Corrosion Inhibition Study of Expired Doxercalciferol Drug as Nontoxic Inhibitor for Mild Steel (MS) in 3 M HCl medium. *Heterocyclic Letters* Vol. 9| No.2| |Feb-April|. 2230 – 9632.**(UGC care list journal)**.
  43. **N. Raghavendra**, Leena V. Hublikar, S. M. Patil, Pooja J Ganiger, Anjali S Bhinge, (2019) Efficiency of Sapota Leaf Extract Against Aluminum Corrosion in 3 M Sodium Hydroxide Hostile Fluid Atmosphere: A Green and Sustainable Approach. *Bulletin of Materials Science*. **(Springer)**. **Impact factor: 1.8 Scopus indexed**.
  44. **N.Raghavendra** (2019) Expired Abacavir Sulfate Drug as Non-toxic Corrosion Inhibitor for MS in 3 M Hydrochloric Acid System. *Gazi University Journal of Science*. **(Scopus indexed)**.
  45. **N.Raghavendra** (2019) Reduction of copper corrosion in 5 M HCl solution by expired nontoxic Ofloxacin drug. *Asian Journal of Chemistry*. Vol. 31, Issue 1, 1-5. **(UGC care list journal)**.

Green Chemistry.

46. **N. Raghavendra** (2019) Antifebrin Drug Prepared via Green Method (One Stage) As a Sustainable Corrosion Inhibitor for Al in 3 M HCl Medium: Insight From Electrochemical, Gasometric and Quantum Chemical Studies. *Surface Engineering and Applied Electrochemistry*. 56, pages235–241).-**Springer**). **Impact factor: 0.2. (Scopus indexed)**.
47. **N. Raghavendra** (2019) Expired Naproxen drug as a robust corrosion inhibitor of Al in 3 M hydrochloric acid system. *Songklanakorn Journal of Science and Technology*. **(Scopus indexed)**. 42 (4).
48. **N. Raghavendra**, Pooja J Ganiger, Anjali S Bhinge, (2019) Protection of mild steel in 3 M HCl solution by Areca root extract: Development of novel green and sustainable corrosion inhibitor. *Journal of Water and Environmental Nanotechnology*. **4 (2), 118. Scopus indexed**.
49. **N. Raghavendra**, Leena V. Hublikar, Pooja J Ganiger, Anjali S Bhinge Soumya Chitnis (2019) Corrosion protection of expired Perindopril and expired Alprazolam drug in carbon steel in the 3 % NaCl solution. *International Journal Of Pharmacy And Biological Sciences*. 9(2). **(UGC approved)**.
50. **N. Raghavendra** (2019) Effect of expired Oxazepam medicine on the corrosion of carbon steel in 5 % NaCl solution: experimental approach towards mitigation of dissolution process. *Frontiers in Chemical Research*. 1(1).
51. **N. Raghavendra**, Leena V. Hublikar, Pooja J Ganiger, Anjali S Bhinge (2019) Evaluation of expired Varenicline as corrosion inhibitor for mild steel in 5 % HCl solution. *International Journal of Research in Advent Technology*. 7 (4). **(UGC approved)**
52. **N. Raghavendra**, Leena V. Hublikar (2019) Use of expired Conivaptan product as non-toxic inhibitor for mild steel in 5 % HCl system: A complementary weight loss, atomic absorption spectroscopy and scanning electron microscopy investigation. *International Journal of Scientific Research and Reviews*. 8 (2). **(UGC approved)**
53. **N. Raghavendra**, J. Ishwara Bhat, Corrosion Inhibition Property of Mangala Dry Arecanut Seed extract on Mild Steel Surface in Hydrochloric Acid Environment. *Science Letters*. 7(2). **(UGC approved)**.
54. **N. Raghavendra**, Leena V Hublikar, A study on the potential corrosion inhibitor with expired water soluble povidone-iodine ointment for Al in aqueous HCl solution: Sustainable approach towards inhibition of Al corrosion using the medicinal waste product. *Asian Journal of Research in Chemistry*. 12 (4). **(UGC approved)**
55. **N. Raghavendra (2019)** Green Compounds to Attenuate Aluminum Corrosion in HCl Activation: A Necessity Review. *Chemical Research in Africa*. (Springer).1-14. **(Scopus indexed)**.
56. **N. Raghavendra (2019)** Use of Ravage Lovastatin as a Non-Toxic Corrosion Inhibitor for Copper in the 3M H<sub>2</sub>SO<sub>4</sub> Solution. *International Journal of Advanced Science and Engineering*. 6(1).
57. **N. Raghavendra**, Deeksha S. Sheelimath, Soumya R. Chitnis (2020) Expired Atenolol Drug: A Nontoxic Corrosion Inhibitor for Al in 3 M HCl Pickling Environment. *Journal of Molecular and Engineering Materials*. 7: 03n04. **(UGC care list journal)**.
58. **N. Raghavendra**, Leena V Hublikar, Soumya R Chitnis, Rachel A Joseph, Deeksha S Sheelimath, Paravati S Pattan (2020) Areca catechu seed extract as improvised acid-base indicator in titrimetric Analysis: An environmental benign approach. 5 (2). **Scopus Indexed**.
59. **N. Raghavendra**, Leena V Hublikar (2020) Exploring Latest Developments and Future Considerations on Anti-Covid-19 Drug Discovery: A Systematic Review Based on Current Evidences. 4(1). **(Publons indexed)**.
60. **N. Raghavendra**, Leena V Hublikar, Pooja J Ganiger, Anjali S Bhinge (2020) Prevention of Aluminum Corrosion in Hydrochloric Acid Using Expired Oseltamivir Drug as an Inhibitor. **Scopus Indexed. Springer**.
61. N. Maruthi a,b, Muhammad Faisal, **N. Raghavendra**\*, B.P. Prasanna, K.R. Nandan, K. Yogesh Kumar d, S.B. Benaka Prasad (2021) Polyaniline/V<sub>2</sub>O<sub>5</sub> composites for anticorrosion and electromagnetic interference shielding. *Materials Chemistry and Physics* 253 (2021) 124059. **Scopus indexed. (Elsevier: Impact factor 4.7)**.
62. **Narasimha Raghavendra**, Leena V Hublikar, S.M. Patil, Pritam Bhat (2020) Microwave assisted biosynthesis of silver nanoparticles using banana leaves extract: Phytochemical, spectral characterization, and anticancer activity studies. *Journal of Water and Environmental Nanotechnology*. **(Scopus indexed)**.
63. N. Maruthi, Muhammad Faisal, **N. Raghavendra**\*, Conducting polymer based composites as efficient EMI shielding materials: comprehensive review and future prospects. *Synthetic Metals* **Scopus indexed. (Elsevier: Impact factor 4.0)**.
64. **N. Raghavendra**, Soumya R. Chitnis, Deeksha S. Sheelimath. Anti-corrosion Investigation of Polylysine (Amino Acid Polymer) as an Efficacious Corrosion Inhibitor for Al in Industrial Acidic Pickling Environment. **Scopus indexed. J Bio Tribo Corros 7, 29 (2021)** <https://doi.org/10.1007/s40735-020-00466-4>. **(Springer)**
65. N. Maruthi a,b, Muhammad Faisal, **Narasimha Raghavendra**\*, B.P. Prasanna, Manohar, Revenasiddappa (2021) Promising EMI shielding effectiveness and anticorrosive properties of PANI-Nb<sub>2</sub>O<sub>5</sub> nanocomposites: Multifunctional approach. *Synthetic Metals* **Scopus indexed. (Elsevier: Impact factor 4.0)**.
66. **Narasimha Raghavendra**, BE Kumaraswamy Elaeocarpus Seed Extraction and Their Impact As a Corrosion Inhibitor for Mild Steel in Submerged in HCl Wash Solution: Insight from Experimental, Mathematical and Theoretical Views" in its current form. Publication in the *Journal of Failure Analysis and Prevention*. **Scopus Indexed (accepted). (Publisher-Springer)**.
- 67.

- Maruthi N a,b , Muhammad Faisal a \*\*, **N. Raghavendra c \***, Prasanna B P b , S R Manohara d ,  
 Revanasiddappa M . Anticorrosive polyaniline-coated copper oxide (PANI/CuO) nanocomposites with tunable electrical properties  
 for broadband electromagnetic interference shielding. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. Accepted. **Impact factor. 5.5**
58. **N. Raghavendra (2021)** Solvation behavior of phthalic acid in triple distilled water + methanol at various temperatures: insight  
 from shedlovsky and kraus-bray models. *Russian Journal of Physical Chemistry A*. Accepted. **Impact factor 0.79 (Publisher-  
 Springer)**.
59. Sumangala B Patil, Leena V Hublikar **N. Raghavendra\*** · Chirag Shanbhog· Arvind Kamble (2021) Synthesis and exploration of  
 anticancer activity of silver nanoparticles using *Pandanus amaryllifolius* Roxb. leaf extract: Promising approach against lung cancer  
 and breast cancer cell lines. *Biologia (Publisher-Springer) (Indexed: Web of Science, and Scopus)*. **Impact factor: 1.6 (accepted)**
70. Leena V Hublikar, Sharanabasava V. Ganachari,  
**Raghavendra, Nagaraj R. Banapurmath, Veerabhadragouda B. Patil, T. M. Yu**  
 Khan, Irfan Anjum Badruddin. Biogenesis of silver nanoparticles and its multifunctional anticorrosion and anticancer studies  
**(Indexed: Web of Science, and Scopus)**. **Impact factor: 3.2 (accepted)**.
71. Leena V.Hublikar<sup>ac</sup>Sharanabasava V.Ganachari<sup>b</sup> N. Raghavendra<sup>c</sup> Veerabhadragouda B.Patil<sup>d</sup>Nagaraj R.Banapurmath<sup>b</sup>. (2021) Green  
 synthesis silver nanoparticles via *Eichhornia Crassipes* leave extract and their applications. *Current Research in Green and  
 Sustainable Chemistry (CRGSC)*. (Elsevier) **(Indexed: Web of Science, and Scopus)**.
72. Madhusudhan C.K.; Mahendra K; **Narasimha Raghavendra**; Revanasiddappa M; Muhammad Faisal (2021) Corrosion resistant  
 Polypyrrole-Banana Carbon (PPy-BC) nanocomposites for protection against electromagnetic interference: A green approach  
*Journal of Materials Science: Materials in Electronics*. (Publisher-Springer) **(Indexed: Web of Science, and Scopus)**. **Impact factor  
 2.7**
73. **Narasimha Raghavendra\***, R.T. Mahesh, B. Mahanthesh, Joby Mackolil (2021) Anti-corrosion performance of novel magnetic  
 polyaniline-Chitosan nanocomposite decorated with silver nanoparticles on Al in simulated acidizing environment. *Impact factor  
 8.0 (Publisher-Elsevier)*. (accepted). *International Journal of Biological Macromolecules*.
74. Madhusudhan C.K., Praveen Kumar R. S., Muhammad Faisal, Mahendra K., **Narasimha Raghavendra** and Vasantha V. T. (2021)  
 Polypyrrole coated multiwalled carbon nanotube hybrids for corrosion inhibition. *Colloid Journal (Impact factor 1.1) (Publisher-  
 Springer) (Indexed: Web of Science, and Scopus)*.
75. Abdul Kadar C. H, Muhammad Faisal\*, Maruthi N\*, **Narasimha Raghavendra\***, Prasanna B. P. and Manohara S. R.  
 Corrosion Resistant Polyaniline Coated Zinc Tungstate Nanocomposites with Enhanced Electric Properties for  
 Electromagnetic Shielding Applications. *Macromolecular research*. **(Impact factor 2.2) (Publisher-Springer) (Indexed: Web  
 of Science, and Scopus)**.
76. C. H. Abdul Kadar, Muhammad Faisal\*, **Narasimha Raghavendra\***, N. Maruthi \* ,B. P. Prasanna, and K. R. Nanjund  
 Enhancing electromagnetic interference shielding effectiveness (EMI SE) of anticorrosive polypyrrole/zinc tungstate  
 composites: multifunctional approach. *Journal of Materials Science: Materials in Electronics*. **(Publisher-Springer) (Indexed  
 Web of Science, and Scopus)**. **Impact factor: 2.7**

## Paper presented in international/national conferences

1. **N. Raghavendra**, J Ishwara Bhat. The paper entitled “ Natural products for material protection: Areca catechu seed  
 extracts as green corrosion inhibitor for aluminum in 0.5 M HCl medium” was presented at International Conference on  
 Smart Materials and Technologies for Emerging –IC-SMTEE-2016 held during 19<sup>th</sup> and 20<sup>th</sup> of February in Sahyadri  
 College of Engineering and mangament, Mangaluru, Karnataka.
2. **N. Raghavendra**, J Ishwara Bhat. The paper entitled “ Tender arecanut husk extract as a green corrosion  
 inhibitor for aluminum in hydrochloric acid environment” was presented at Nineteenth National Convention of  
 Electrochemists (NCE-19) held during March 28-29, at National Institute of Technology, Tiruchirapalli, Tamil  
 Nadu.



3. **N. Raghavendra**, J Ishwara Bhat. The paper entitled “ plant products for material protection: anticorrosive property of arecanut seed extract at aluminum-acid interface” was presented in the International Conference on Science and Technology: Future Challenges and Solutions-2016” held during 8 th 9 th August, 2016 at Vijnana Bhavan, University of Mysore, Mysuru, Karnataka, India.
4. **N. Raghavendra**, J Ishwara Bhat. The paper entitled “ Anti corrosive behavior of tender arecanut husk extract metal/aggressive solution was presented in 9 th KSTA annual conference on science, technology and innovations in the 21 st century held during 20 th-21 st December 2016 at Christ University.
5. **N. Raghavendra**, J Ishwara Bhat. The paper entitled “ Areca fat as an eco-friendly corrosion inhibitor for mild steel in 0.5 M HCl environment” was presented in national conference on emerging trends in material science on 7<sup>th</sup> March 2017 at S.Nijalingappa College.
6. **N. Raghavendra**, J Ishwara Bhat. The paper entitled “Corrosion inhibition action of Areca flower extract at Al-0.5 M HCl interface: An eco-friendly green inhibitor” was presented in national level Symposium held on 11th and 12<sup>th</sup> August 2017 at Manipal Institute of Technology, Manipal.
7. **N. Raghavendra**, J Ishwara Bhat. The paper entitled “Ripe arecanut husk extract: An environmentally friendly corrosion inhibitor for Al in 0.5 M HCl medium” was presented in National Conference on the theme Reaching the Unreachable through Science and Technology with the focal theme Recent Advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment in Mangalore, Karnataka from September 8-9, 2017.
8. **N. Raghavendra**, The paper entitled “Green approach to inhibition of carbon steel corrosion in 3 M HCl solution by arecanut husk extract: Insight from gravimetric and scanning electron microscopy studies” presented in national conference in P.C. Jabin Science College in Hubballi.
9. Pooja J Ganiger, **N. Raghavendra\***. The paper entitled “ Expired Perindopril drug: A robust corrosion inhibitor for mild steel in the hostile fluid environment” presented in national conference in P.C. Jabin Science College in Hubballi.
10. Anjali S Bhinge **N. Raghavendra\***. The paper entitled “Use of expired Alprazolam drug as corrosion inhibitor for aluminum (Al) in hydrochloric acid atmosphere “presented in national conference in P.C. Jabin Science College in Hubballi.
11. Navyatha P Gaonkar, **N. Raghavendra\***. The paper entitled “Corrosion inhibition property of areca nut seed extract on mild carbon steel in 3 M HCl system: Insight from weight loss and scanning electron microscopy studies” presented in national conference in P.C. Jabin Science College in Hubballi.
12. Shreya P, Neha, Leena V Hublikar, **N. Raghavendra\***. The Paper entitled using leaf extract of averroha bilimbi and its toxicology studies presented in the international conference on impact of innovations in science and technology for societal development held during September 19, 21. September 2019 at Kongunadu arts and science college (Autonomous) Coimbatore, Tamil Nadu, India.
13. Pritam K Bhat, Leena V Hublikar, **N. Raghavendra\***. The paper entitled Synthesis of silver nanoparticles using Banarasi Leaf extract and its use for anticancer activity presented in the fourth international conference on recent advances in material chemistry organized by the department of Chemistry, SRM institute of science and technology in association with alternative energies and atomic energy commission (CEA), France during 19-21, February, 2020.Chennai.
14. Sahana MN, Aishwarya MH, Leena V Hublikar, SM Patil, **N. Raghavendra\***. The paper entitled green synthesis of silver nanoparticles by L.camara and its toxicology studies presented in second international summit of saliva symposium India at JRD Tata auditorium, national institute of advanced studies, Indian institute of Science, Bangalore. February-2020.

## Reviewer/Referee to the Journals

- Green Chemistry Letters and reviews (**Impact Factor 4.9**) (Thomason returns). Web of science and Scopus indexed. Publisher- Taylor and Francis.
- Materials Chemistry and Physics (**Impact factor 4.0**) (Thomason returns). Web of Science and Scopus indexed. Publisher- Elsevier.
- Measurement (**Impact factor 3.9**) (Thomason returns). Web of Science and Scopus indexed. Publisher- Elsevier.
- Chemical Engineering communications (**Impact Factor 2.4**) (Thomason returns). Web of science and Scopus indexed. Publisher- Taylor and Francis.
- Journal of Materials Engineering and (**Impact Factor 1.8**) (Thomason returns). Web of science and Scopus indexed. Publisher- Springer.
- Journal Surface Engineering and Applied Electrochemistry (**Impact Factor 0.2**) (Thomason returns). Web of science and Scopus indexed. Publisher- Springer.
- Data in Brief (Scopus indexed. Publisher- Elsevier).
- South African journal of chemistry (Scopus Indexed Journal).
- Bulletin of the Chemical Society of Ethiopia (International journal, peer reviewed).

- Journal of Food Technology and Food Chemistry (JFTFC).
- Iranian Journal of Chemistry and Chemical Engineering (Scopus indexed journal)
- Chemistry Africa (Springer International Journal).
- Mediterranean Journal of Chemistry (Scopus Indexed Journal).
- Journal of Electrochemical Science and Technology (Scopus indexed journal).
- Material Research (Scopus indexed and web of Science indexed).
- Journal of Water and Environmental Nanotechnology (Scopus indexed).
- International Research Journal of Pure and Applied Chemistry
- Journal of Advances in Medical and Pharmaceutical Sciences
- Asian Journal of Advanced Research and Reports
- Journal of Pharmaceutical Research International
- Asian Journal of Biotechnology and Bioresource Technology
- Polymers and Polymer Composites
- High Performance Polymers
- Journal of Applied Science and Engineering
- Biointerface Research in Applied Chemistry
- Chemical Science International Journal
- Asian Journal of Chemical Sciences

a) Guideship : --

b) Number of M. Phil/Ph.D registered and produced:-

8. Participation in Symposia, Seminars, Conferences and Workshops.

International	National	State	Total
	5		5

1.	Kuvempu University Silver Jubilee Exhibition, organized by committee for popularization of science education, Kuvempu University, Jnana Sahyadri, Shankaraghatta-577451 at the University Campus during 16.02.2012 to 19.02.2012.
2.	National conference on "IMPACT OF CHEMISTRY BIOLOGY ON SOCIETY" organized by the Dept. of Industrial chemistry Kuvempu university shankaragatta, Shimoga (2012) April 26-27, 2012.
3.	Workshop on " BIOLOGICAL DIVERSITY ACT-2002" and Interaction meeting of Bioresource Users in Research, Organized by Mangalore University under the auspices of Karnataka Biodiversity Board, Department of Forest, Ecology and Enviroment- Govt. of Karnataka, on 31st January 2015 at Mangalagangothri.
4.	CWF-2016 conference on "CITIES IN TRANSITION" held at palace grounds, Bengaluru, from November 28th -30th, 2016.
5.	EMERGING SOLAR PV TECHNOLOGY APPLICATIONS FOR ACADEMICS" conducted at Mangalore University on 3 rd December 2016.

9. Presentation of papers in Seminars, Symposia & Conferences.

International	National	Total
2	9	11

10. Details of presentations:

1. The paper entitled “ Natural products for material protection: Areca catechu seed extracts as green corrosion inhibitor for aluminum in 0.5 M HCl medium” was presented at International Conference on Smart Materials and Technologies for Emerging –IC-SMTEE-2016 held during 19<sup>th</sup> and 20<sup>th</sup> of February in Sahyadri College of Engineering and mangament, Mangaluru, Karnataka.
2. The paper entitled “ Tender arecanut husk extract as a green corrosion inhibitor for aluminum in hydrochloric acid environment” was presented at Nineteenth National Convention of Electrochemists (NCE-19) held during March 28-29, at National Institute of Technology, Tiruchirapalli, Tamil Nadu.
3. The paper entitled “ plant products for material protection: anticorrosive property of arecanut seed extract at aluminum-acid interface” was presented in the International Conference on Science and Technology: Future Challenges and Solutions-2016” held during 8 th 9 th August, 2016 at Vijnana Bhavan, University of Mysore, Mysuru, Karnataka, India.
4. The paper entitled “ Anti corrosive behavior of tender arecanut husk extract a metal/aggressive solution was presented in 9 th KSTA annual conference on science, technology and innovations in the 21 st century held during 20 th-21 st December 2016 at Christ University.
5. The paper entitled “ Areca fat as an eco-friendly corrosion inhibitor for mild steel in 0.5 M HCl environment” was presented in national conference on emerging trends in material science on 7<sup>th</sup> March 2017 at S.Nijalingappa College.
6. The paper entitled “Corrosion inhibition action of Areca flower extract at Al-0.5 M HCl interface: An eco-friendly green inhibitor” was presented in national level Symposium held on 11th and 12<sup>th</sup> August 2017, at Manipal Institute of Technology, Manipal.
7. The paper entitled “Ripe arecanut husk extract: An environmentally friendly corrosion inhibitor for Al in 0.5 M HCl medium” was presented in National Conference on the theme Reaching the Unreached through Science and Technology with the focal theme Recent Advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment in Mangalore, Karnataka from September 8-9, 2017.
8. The paper entitled “Green approach to inhibition of carbon steel corrosion in 3 M HCl solution by arecanut husk extract: Insight from gravimetric and scanning electron microscopy studies” presented in national conference in P.C. Jabin Science College in Hubballi.

**Students presentation under my guidance:**

9. Poolja J Ganiger and Narasimha Raghavendra (2019) The paper entitled “ Expired Perindopril drug: A robust corrosion inhibitor for mild steel in the hostile fluid environment” presented in national conference in P.C. Jabin Science College in Hubballi.
10. Anjali S Bhinghe and Narasimha Raghavendra (2019) The paper entitled “Use of expired Alprazolam drug as corrosion inhibitor for aluminum (Al) in hydrochloric acid atmosphere “presented in national conference in P.C. Jabin Science College in Hubballi.
11. Navyatha P Gaonkar and Narasimha Raghavendra (2019) The paper entitled “ Corrosion inhibition property of areca nut seed extract on the carbon steel in 3 M HCl system: Insight from weight loss and scanning electron microscopy studies” presented in national conference in P.C. Jabin Science College in Hubballi.

**Duties/responsibilities assigned at the P.C. Jabin Science College, Hubballi:**

- Member of research committee for the academic year 2018-2019.
- Actively involved in question paper setting, evaluation and invigilator for B.Sc courses.

**Achievements:**

- Qualified Karnataka state eligibility (K-SET) test in Chemical Sciences.

11. Teaching Innovations : Chalk and talk method and Powerpoint presentation :
12. Computer literacy : Operating systems (Windows and MacOS), Office suites (Microsoft Office, G Suite), Presentation software (PowerPoint, Keynote), Spreadsheets (Excel, Google Spreadsheets, etc.),
13. Proficiency in languages : Kannada, English, Telugu, Tamil
14. Sports and Hobbies : Reading books and magazines, singing, dancing, listening music, watching movies, playing cricket, badminton and tennis.

**DECLARATION**

Above given information is correct and true to the best of my knowledge.

Raghavendra N  
Signature of Employee

Signature of HOD

Signature of Principal