

Curriculum Vitae

1. **Name:** Dr. S. Kantharaju
2. **Present position:** Principal
3. **Address:** Sri Jagadguru Renukacharya College of Science, Arts and Commerce,
Race Course Road, Bengaluru
Karnataka, India, PIN: 560009



4. **Residential address:** # 10, D. Pillappa layout, Kashinagar Road
Amruthahalli, Bengaluru
Karnataka, India, PIN: 560092

5. **Date of Birth:** 25 December 1966

6. **Academic career:**

- **Bachelor of Science** (B.Sc.), Bangalore University (1989) with **First Class**
- **Master of Science** (M.Sc.) in Chemistry (Biochemistry Specialization), Bangalore University (1991) with **First Class**
- **Ph. D.** from Bangalore University (2015)

7. **Important responsibilities discharged:**

- BOS Member, Chemistry (UG), BCU 2023-24 to 24-25
- BOS Member, Biochemistry (UG), BCU 2023-24 to 24-25
- BOS Member, Govt. Science College (Autonomous), University Nominee 2019-20
- Core Committee Member for the preparation of B.Sc. Biochemistry Syllabus, CBCS Scheme (2014 onwards), Bangalore University.
- ANO at SJR College 2007-2014
- Organizing Committee Member for 7 National/ State Level Seminars/ Workshops
- Organizing committee member, CBCS Syllabus workshop at KLE College, Bengaluru on 11 July 2016
- BOE Member, UG Chemistry, Bangalore University Examinations 2016-17
- Observer, Bangalore University UG Examinations – 2016-17
- Deputy Coordinator, Bengaluru Central University UG Examinations 2018-19
- BOS & BOE Member, UG Chemistry, MLA College for Women, Bengaluru 2017-18 and 2018-19
- BOS & BOE Member, UG Chemistry, VHD Home Science College, Bengaluru 2017-18 and 2018-19

- Member, B. Sc., Biochemistry CBCS Syllabus revision Committee, Bengaluru Central University (2019-20)
- Organizing committee member for one day *National conference* on Emerging Trends in Materials Science on 5th Oct 2018

8. Membership:

- Life member, Indian Science Congress (L-27888)
- Life member, Eurasia Research (TERA-M191066)
- Member, ASR (R219071902)

9. Research field

- Enzymology, Nanoscience, Environmental Chemistry

10. Awards & Recognitions

- Best Oral Presentation at World Research Journal Conference at Dubai, 7– 8 Dec 2015
- Best in Weapon Training at OTA Kamptee, Maharashtra

11. Research papers published

1. Tulsi Honey Amalgamated CeO₂ Nanocomposite for Dye Degradation, Antioxidant and Cyclic Voltammetric Sensor Studies, (2025), *Nanochemistry Research*, 10 (1) 1-12,
2. Development of Illite modified/Rh₂O₃ for electrochemical, sensor, photocatalysis and antioxidant studies, (2024), *Applied Clay Science* 252, 107330
3. Synthesis and Characterization of Reduced Graphene Oxide Fabricated Over Ruthenium Oxide through Reflux Method, (2023), *Journal of Mines, Metals & Fuels* 71 (11)
4. Development of Coriander Honey loaded CeO₂ for cyclic voltammetry, chemical sensor, dye purification, and antioxidant properties (2023), *Journal of the Taiwan Institute of Chemical Engineers*, 152, 105174
5. Clay incorporated ruthenium oxide nanocomposite for electrochemical, sensor, optical, photocatalytic and antioxidant studies, (2023), *Sustainable Chemistry for the Environment*, 2, 100007
6. Investigation of antioxidant and photo catalysis of natural honey and cow urine-doped CeO₂ nanoparticles fabricated by reflux method, (2023) *Engineering, Science, and Sustainability*, 31-36,
7. Electrochemical, photocatalytic and sensor studies of clay/MgO nanoparticles. (Aug 2022) M Mylarappa, N Raghavendra, BS Surendra, KNS Kumar, S Kantharjau, *Applied Surface Science Advances* 10, 100268
8. Electrochemical Properties of MnO₂ Nanoparticle Obtained from Waste Battery Powder by Reductive Acid Leaching Method (26 May 2021). *Newest Updates in Physical Science Research* Vol. 5, 23-35
9. Synthesis and Characterization of Rgo Doped Nb₂O₅ Nano Composite for Chemical Sensor Studies (2022). *ECS Transactions* 107 (1), 269

10. Synthesis and Characterization of ZnO and MgO Nanoparticles through Green Approach and Their Antioxidant Properties (2022), ECS Transactions 107 (1), 689
11. Physico-Chemical Properties of Purified Carboxylesterase from the Seeds of *Tamarindus indica*, Asian Journal of Research in Biochemistry, (Feb 2021), ISSN: 2582-0516, 8(1): 42-58,
12. Recycling and Reusing of Li_2CO_3 and $\text{Co}(\text{OH})_2$ from Waste Lithium ion Batteries for Energy Storage and Thermal Studies, Journal of Waste Management and Disposal(Sept.2019), ISSN:8827-2641, Vol. 2, Iss. 3, 1-14.
13. "Facile Synthesis and characterization of rGO decorated NiFe_2O_4 nanocomposite Obtained from waste Ni-Cd/Ni-MH batteries" Int. J Waste Resources (2020), Vol. 10 Iss. 4 No: 385, ISSN: 2252-5211
14. Similar Assessment of Water Quality of Ground Water and Sujala Pathakam Plants Installed in Gudibanda and Rolla Mandala, madakasira Taluk in Andrapradesh. IJREM, Vol 06, Issue 09 Sept 2019, ISSN:2349-2058
15. Effect of Oxalic Acid and Citric Acid on Recovery of Ni and Cd from Waste Batteries: Electrochemical and Thermal Investigation of $\text{Ni}(\text{OH})_2$ obtained from Leach Solution. Research Journal of Chemistry and Environment, Vol. 22(11) Nov 2018
16. Studies on xyloglucanase during the germination of seeds of *Tamarindus Indica*. Journal of Biosciences and Medicines, 2, 36-43 (2014)
17. Characterisation of esterses of *Tamarindus Indica* seeds. Journal of Biosciences and Medicines, 2, 54-62 (2014)

Book Chapter:

- Electrochemical Properties of MnO_2 Nanoparticle Obtained from Waste Battery Powder by Reductive Acid Leaching Method. Newest Updates in Physical Science Research. Vol. 5, 23-35, B P International, May 2021 ISBN: 9781003388982
- Investigation of Antioxidant and Photo Catalysis of Natural Honey and Cow Urine-Doped CeO_2 Nanoparticles Fabricated by Reflux Method: Book Title: Engineering, Science, and Sustainability, CRC Press, 2023, ISBN: 978-93-90888-34-4 (Print)
978-93-90888-41-2 (eBook)

Book published:

- Honey doped CeO_2 Nanoparticles and their opt-electronic studies, Scholar press, Academic Publishing, March 2023 ISBN: 9786205522028

Papers presented in Conferences/ Seminars

1. GC-MS analysis of phytochemicals present in the organic solvents extract from *Moringa Oleifera* at International conference on Multidisciplinary innovations in science and technology, 18-19 Sept 2020 at The Oxford College, Bengaluru
2. Synthesis and Characterization of Clay/ NiFe_2O_4 Nano Composite from Waste Batteries for Super Capacitors Studies at International Conference on Life, Chemical & health Sciences from 24 - -26 Oct 2019 at Ramaiah College, Bengaluru
3. 'Synthesis and characterization of MgO nanoparticles by solution combustion method' at Multidisciplinary International Conference on 'Trends in Global

Research in Information Technology and their Impact on Environment' organized by SJR College in in association with Toucan Research and Development, Jarkhand on 3rd & 4th August 2019.

4. 'Preparation and structural aspects of ZnO nanoparticlse by solution combustion method for water purification' at Multidisciplinary International Conference on 'Trends in Global Research in Information Technology and their Impact on Environment' organized by SJR College in in association with Toucan Research and Development, Jarkhand on 3rd & 4th August 2019.
5. 'Synthesis and structural features of natural clay doped Nano Ferrite recovered from waste battery collection' at Multidisciplinary International Conference on 'Trends in Global Research in Information Technology and their Impact on Environment' organized by SJR College in in association with Toucan Research and Development, Jarkhand on 3rd & 4th August 2019.
6. Synthesis and structural characterization of NiFe₂O₄/rGO nano composite obtained from spent Ni-Cd/ Ni-MH batteries at 4th International conference from 13-14 May 2019 at East West Institute of Technology, Bengaluru.
7. Pollution due to Automobile vehicle service stations on Bengaluru Environment especially Water Bodies, at International Conference from 18 – 20 march 2019 at University of Mysore, Mysuru.
8. Assessment of water quality of Ground water and Sujala Pathakam Filter plants installed in Gudibanda and Rolla mandala, Madakasira, at National Conference on 22 February 2019at at CSI College of Engineering, Ooty.
9. Fabrication and structural studies of Li₂CO₃ and Ca(OH)₂ from Discarded Li-Ion Batteries for Super capacitor and Thermal Applications at International Conference from 28 – 30 January 2019 at SRM University, Chennai
10. Studies on protease inhibitory peptides from tamarind seeds at National conference from 6-7 October 2017 at Mangalore University PG Centre, Kushalnagar, Kodagu
11. Isolation and purification of esterase from the seeds of *Tamarindus Indica* at 2nd International World Research Journals Congress from 26–28 June 2017 at Bangkok, Thailand
12. Effect of acetyl salicylic acid on esterase during the germination of Tamarind seeds at 103rd Indian Science Congress from 3 – 7 Jan 2016 at Mysuru
13. Isolation and partial purification of galactoxyloglucanase from tamarind seeds at World Research Journal Conference at Dubai from 7 – 8 Dec 2015
14. Studies on xyloglucanase during the germination of seeds of *Tamarindus Indica* at international conference on enzymes, Beijing, China from 12 – 14 June 2014
15. Characterisation of esterses of *Tamarindus Indica* seeds at International Conference on enzymes, Beijing, China, from 12 – 14 June 2014
16. Analytical methods of determining the Lead content in soil samples at international conference on Current Trends in Chemistry and Biochemistry., Bangalore University, Bengaluru, from 18 – 19 December 2009

17. Adsorption studies on granular activated carbon for detoxification of effluent streams – An Environmental Concern, at international conference on Current Trends in Chemistry and Biochemistry., Bangalore University, Bengaluru, 18 – 19 December 2009

12. Conference/ Seminars / Workshops attended:

1. All India Training Programme on Industrial Metal Finishing, Electroplating Technologies, Aerospace Chemical/ Process and Effluent Treatment Process at IISc Bengaluru from 5 – 7 March 2020 organised by Electrochemical Society of India
2. Indian Science Congress, an international conference from 3 – 7 Jan 2020 at GKVK, Bengaluru
3. International Conference on Life, Chemical & health Sciences from 24 - -26 Oct 2019 at Ramaiah College, Bengaluru
4. Multidisciplinary International Conference on ‘Trends in Global Research in Information Technology and their Impact on Environment’ organized by SJR College in association with Toucan Research and Development, Jarkhand on 3rd & 4th August 2019.
5. One day FDP on ‘An Innovative New Generation Enzymatic PCR’ organized by MSR College of Arts, Science and Commerce, Bengaluru on 26th March 2019.
6. 4th international Conference on Science, Agriculture and Technology for Society from 13-15 May 2019 organized by VMS Research foundation, Nagapur and EWIT, Bengaluru.
7. International Conference on Advanced Functional Materials, Energy, Environment and Healthcare organized by University of Mysore from 18 – 20 March 2019.
8. National Conference on Reseach Advances in Science and Technology organized by CSI College of Engineering and Hillgrove Research Pvt. Ltd. Ooty on 22nd February 2019.
9. National Conference on Smart Synergy – Emerging Trends in Application of Smart Materials organized by mLAC, Bengaluru on 14 February 2019.
 - a. 5th International Conference on Nanoscience and Nanotechnology organized by SRM University, Chennai from 28 – 30 January 2019
10. International Conference on ‘Current Concepts on the role of Indian Medicine and Phytoceuticals in Maintenance of Health’ organized by Mangalore University in association with Indian Association of Biomedical Scientists from 15 – 17 November 2018
11. Workshop ‘Hands on Training: New Generation Materials for Energy Storage Devices’ (NGMESD-2018) organized by East West Institute of Technology, Bengaluru from 15 – 16 October 2018
12. International Conference on ‘advances in disease management for human welfare’ organized by Gulbarga University from 21 to 23 Nov 2017

13. Chemistry Lecture Series 2017 on 12 October 2017 organized by Chemistry Teachers Forum, Bangalore University at Vivekananda College, Bengaluru
14. National conference on Bioactive peptides and Health Care from 6-7 October 2017 at Mangalore University PG Centre, Kushalnagar, Kodagu
15. 2nd International World Research Journals Congress from 26 – 28 June 2017 at Bangkok, Thailand
16. Two day workshop on 'Discussion of revised B.Sc. Chemistry Syllabus (CBCS) of Bangalore University – New topics & Model question papers' on 6th & 7th Jan 2017 at Vijaya College, Bengaluru
17. Lecture Workshop on 'Advances in Biotechnology' on 29th & 30th July 2016 at S. Nijalingappa College, Bengaluru-10
18. 2nd international young Scientists Congress & Workshop on Lifestyle Management from 8 – 9 May 2016 at Puducherry
19. Workshop on 'Interpretation of Spectra – A Practical Approach' on 26th Feb 2016 at Dr. Prabhakar Kore Basic Science Research Center, Bengaluru-10
20. 103rd Indian Science Congress from 3 – 7 Jan 2016 at Mysuru
21. International conference "World Research Journal Conference – 2015 at Dubai from 7 – 8 Dec 2015
22. National seminar on 'Perspectives of Chemistry in Nanotechnology at Kalpataru First Grade College, Tiptur, on 31st July 2015
23. International Conference on Enzymes, at Beijing, China from 12 – 14 June 2014
24. UGC sponsored National seminar on 'Advanced Molecular Techniques in Biosciences' from 24 – 29 June 2013 at PES College, Bengaluru
25. '5th Bangalore Nano' an International Conference organized by Govt. of Karnataka at The Lalith Ashok, Bengaluru, 05-07 December 2012
26. Workshop on 'Creative Teaching in Different Aspects of Chemistry' at Choksi Hall, IISc, Bangalore, organized by Electrochemical society of India, 02 March 2010
27. International conference on 'Current Trends in Chemistry and Biochemistry', Bangalore University, Bengaluru, 18 – 19 December 2009
28. 'Karnataka Vijnana Jagruthi', at J N Tata Auditorium, IISc, Bangalore, organized by VGST, Govt. of Karnataka, 31 July to 01 August 2009
29. National seminar on 'Continuous Improvement in Higher Education Institutions', at Garden City College, Bengaluru, 27 – 28 March 2008
30. UGC Sponsored National Seminar on 'Advances in Nanomaterials & Drug Delivery' at St. Xavier's College, Goa, 22 – 23 February 2008

13. Refresher Course/ Orientation Programme / Training programme undergone

1. 14 days FDP on MATERIALS SCIENCE & NANOTECHNOLOGY (FDP-MSNT-2020)" organized by Department of Chemistry, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai-48, during the period 03rd August to 17th August 2020.
2. Two weeks FDP on Managing online classes and co-creating MOOCs at Ramanujam College, Delhi sponsored by MHRD from 18 May to 3 June 2020

3. 21 days Degree College Teachers Training Programme Programme in Chemistry equivalent to UGC Refresher course at IISc Campus Challakere, sponsored by MHRD from 22nd Nov to 12th Dec 2019
4. 6 day Faculty Development Programme on Recent Advances in Materials Science and Applications' from 16 to 21 Jan 2018 at MSRIT, Bengaluru
5. 7 day Professional Development Programme on 'Back to the Nature – Nature friendly attitudes, Science and Technologies' from 24 to 30 June 2017 at Ramaiah Institute of Technology
6. 21 days Degree College Teachers Training Programme in Chemistry equivalent to UGC Refresher course at IISc Campus Challakere, sponsored by MHRD from 23rd Nov to 13th Dec 2016
7. UGC Sponsored Refresher Course in Chemistry at Academic Staff College, Bangalore University, Bengaluru, 17 Feb 2005 to 10-03-2005
8. Feel Teacher programme conducted by CLHRD, Mangalore, from 15 – 17 Dec 2014.
9. UGC Sponsored Orientation Programme at Academic Staff College, Bangalore University, Bengaluru, 15 Nov – 13 Dec 2013
10. Pre Commission Training at NCC OTA, Kamptee, Maharashtra, 24 Nov 2008 to 21 Feb 2009
11. 'Intel Teach to the Future' - A Biginners Course, by Microsoft at SJR School, Rajajinagar, Bengaluru, 01 – 22 Feb 2001

14. Industries / Research Centers visited

1. VISL, Bhadravathi
2. MPM Paper mills, Bhadravathi
3. KIOCL, Kudremukh and Maangalore
4. Khoday's Glass Factory, Kanakapur Road, Bengaluru
5. KSDL, Bengaluru
6. Wheel & Axel Factory, Bengaluru
7. KMF Dairy, Bengaluru
8. Bhoruka steels, Bengaluru
9. Mysugar, Mandya
10. Mysore Acetate Factory, Mandya
11. CIPET, Mysore
12. GE, Bengaluru
13. Rallies' Research Centre, Peenya, Bengaluru
14. e-Waste Recycling Unit, Dabaspeta, Tumkur Road
15. Ce-Chem pharmaceuticals, Peenya, Bengaluru
16. CIPLA pharmaceuticals, Bengaluru
17. Vijaya Metal Finishers, Peenya, Bengaluru
18. Heidenberg Cement Factory (Mysore Cements), Ammasandra
19. KMF Dairy, Tumkur
20. Akzonobel India (Paint Industry)

21. Shriram Institute for Industrial Research

Mail id: kantharaj2553@gmail.com, principal@sjrc.edu.in

Phone: 9448510540, 8660833161



PRINCIPAL
Sri Jagadguru Renukacharya College
of Science, Arts & Commerce
Bengaluru-560 009.