

Curriculum Vitae

1. **Name:** Dr. S. Kantharaju
2. **Present position:** Principal
3. **Address:** Sri Jagadguru Renukacharya College of Science, Arts and Commerce,
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5. **Vidwan ID:** 349102



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

7. **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)

8. **Important responsibilities discharged:**

- 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
- 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
- Member, BOS in chemistry, Bengaluru City University from 21-22 to 23-24
- Member, BOS in Biochemistry, Bengaluru City University from 21-22 to 23-24

9. Membership:

- Life member, Indian Science Congress (L-27888)
- Life member, Eurasia Research (TERA-M191066)
- Member, The Asia Society of Researchers (ASR) (R219071902)

10. Research field

- Enzymology, Nanoscience, Environmental Chemistry

11. Awards & Recognitions

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

12. Research papers published

- Electrochemical, photocatalytic and sensor studies of clay/MgO nanoparticles. *Applied Surface Science Advances* 10, 100268 (Aug 2022)
- Synthesis and Characterization of rGO Doped Nb₂O₅ Nano Composite for Chemical Sensor Studies. *ECS Transactions* 107 (1), 269 (2022)
- Synthesis and Characterization of ZnO and MgO Nanoparticles through Green Approach and Their Antioxidant Properties, *ECS Transactions* 107 (1), 689 (2022)
- Electrochemical Properties of MnO₂ Nanoparticle Obtained from Waste Battery Powder by Reductive Acid Leaching Method. *Newest Updates in Physical Science Research* Vol. 5, 23-35 (May2021)
- 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,
- Recycling and Reusing of Li₂CO₃ and Co(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.
- “Facile Synthesis and characterization of rGO decorated NiFe₂O₄ nanocomposite Obtained from waste Ni-Cd/Ni-MH batteries” *Int. J Waste Resources* (2020), Vol. 10 Iss. 4 No: 385, ISSN: 2252-5211
- 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
- Effect of Oxalic Acid and Citric Acid on Recovery of Ni and Cd from Waste Batteries: Electrochemical and Thermal Investigation of Ni(OH)₂ obtained from Leach Solution. *Research Journal of Chemistry and Environment*, Vol. 22(11) Nov 2018

- Studies on xyloglucanase during the germination of seeds of *Tamarindus Indica*. Journal of Biosciences and Medicines, 2, 36-43 (2014)
- Characterisation of esters of *Tamarindus Indica* seeds. Journal of Biosciences and Medicines, 2, 54-62 (2014)

Book Chapter:

- Electrochemical Properties of MnO₂ Nanoparticle Obtained from Waste Battery Powder by Reductive Acid Leaching Method. Newest Updates in Physical Science Research. Vol. 5, 23-35

13. Papers presented in Conferences/ Seminars

- 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
- Synthesis and Characterization of Clay/NiFe₂O₄ 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
- '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.
- 'Preparation and structural aspects of ZnO nanoparticle 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.
- '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.
- 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.
- 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.
- 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 2019 at CSI College of Engineering, Ooty.

- Fabrication and structural studies of Li_2CO_3 and $\text{Ca}(\text{OH})_2$ from Discarded Li-Ion Batteries for Super capacitor and Thermal Applications at International Conference from 28 – 30 January 2019 at SRM University, Chennai
- Studies on protease inhibitory peptides from tamarind seeds at National conference from 6-7 October 2017 at Mangalore University PG Centre, Kushalnagar, Kodagu
- 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
- 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
- Isolation and partial purification of galactoxyloglucanase from tamarind seeds at World Research Journal Conference at Dubai from 7 – 8 Dec 2015
- Studies on xyloglucanase during the germination of seeds of *Tamarindus Indica* at international conference on enzymes, Beijing, China from 12 – 14 June 2014
- Characterisation of esterses of *Tamarindus Indica* seeds at International Conference on enzymes, Beijing, China, from 12 – 14 June 2014
- 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
- 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

14. Conference/ Seminars / Workshops attended:

- 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
- Indian Science Congress, an international conference from 3 – 7 Jan 2020 at GKVK, Bengaluru
- International Conference on Life, Chemical & health Sciences from 24 - -26 Oct 2019 at Ramaiah College, Bengaluru
- 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 3-4 August 2019.
- One day FDP on ‘An Innovative New Generation Enzymatic PCR’ organized by MSR College of Arts, Science and Commerce, Bengaluru on 26th March 2019.
- 4th international Conference on Science, Agriculture and Technology for Society from 13-15 May 2019 organized by VMS Research foundation, Nagapur and EWIT, Bengaluru.

- International Conference on Advanced Functional Materials, Energy, Environment and Healthcare organized by University of Mysore from 18 – 20 March 2019.
- National Conference on Research Advances in Science and Technology organized by CSI College of Engineering and Hillgrove Research Pvt. Ltd. Ooty on 22nd February 2019.
- National Conference on Smart Synergy – Emerging Trends in Application of Smart Materials organized by mLAC, Bengaluru on 14 February 2019.
- 5th International Conference on Nanoscience and Nanotechnology organized by SRM University, Chennai from 28 – 30 January 2019
- 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
- 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
- International Conference on ‘advances in disease management for human welfare’ organized by Gulbarga University from 21 to 23 Nov 2017
- Chemistry Lecture Series 2017 on 12 October 2017 organized by Chemistry Teachers Forum, Bangalore University at Vivekananda College, Bengaluru
- National conference on Bioactive peptides and Health Care from 6-7 october 2017 at Mangalore University PG Centre, Kushalnagar, Kodagu
- 2nd International World Research Journals Congress from 26 – 28 June 2017 at Bangkok, Thailand
- 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
- Lecture Workshop on ‘Advances in Biotechnology’ on 29th & 30th July 2016 at S. Nijalingappa College, Bengaluru-10
- 2nd international young Scientists Congress & Workshop on Lifestyle Management from 8 – 9 May 2016 at Puducherry
- Workshop on ‘Interpretation of Spectra – A Practical Approach’ on 26th Feb 2016 at Dr. Prabhakar Kore Basic Science Research Center, Bengaluru-10
- 103rd Indian Science Congress from 3 – 7 Jan 2016 at Mysuru
- International conference “World Research Journal Conference – 2015 at Dubai from 7 – 8 Dec 2015
- National seminar on ‘Perspectives of Chemistry in Nanotechnology at Kalpataru First Grade College, Tiptur, on 31st July 2015
- International Conference on Enzymes, at Beijing, China from 12 – 14 June 2014
- UGC sponsored National seminar on ‘Advanced Molecular Techniques in Biosciences’ from 24 – 29 June 2013 at PES College, Bengaluru

- '5th Bangalore Nano' an International Conference organized by Govt. of Karnataka at The Lalith Ashok, Bengaluru, 05-07 December 2012
- Workshop on 'Creative Teaching in Different Aspects of Chemistry' at Choksi Hall, IISc, Bangalore, organized by Electrochemical society of India, 02 March 2010
- International conference on 'Current Trends in Chemistry and Biochemistry', Bangalore University, Bengaluru, 18 – 19 December 2009
- 'Karnataka Vijnana Jagruthi', at J N Tata Auditorium, IISc, Bangalore, organized by VGST, Govt. of Karnataka, 31 July to 01 August 2009
- National seminar on 'Continuous Improvement in Higher Education Institutions', at Garden City College, Bengaluru, 27 – 28 March 2008
- UGC Sponsored National Seminar on 'Advances in Nanomaterials & Drug Delivery' at St. Xavier's College, Goa, 22 – 23 February 2008

15. Refresher Course/ Orientation Programme / Training programme undergone

- 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.
- 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
- 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
- 6 day Faculty Development Programme on Recent Advances in Materials Science and Applications' from 16 to 21 Jan 2018 at MSRIT, Bengaluru
- 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
- 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
- UGC Sponsored Refresher Course in Chemistry at Academic Staff College, Bangalore University, Bengaluru, 17 Feb 2005 to 10-03-2005
- Feel Teacher programme conducted by CLHRD, Mangalore, from 15 – 17 Dec 2014.
- UGC Sponsored Orientation Programme at Academic Staff College, Bangalore University, Bengaluru, 15 Nov – 13 Dec 2013
- Pre Commission Training at NCC OTA, Kamptee, Maharashtra, 24 Nov 2008 to 21 Feb 2009
- 'Intel Teach to the Future' - A Beginners Course, by Microsoft at SJR School, Rajajinagar, Bengaluru, 01 – 22 Feb 2001

16. Industries / Research Centers visited

- VISL, Bhadravathi
- MPM Paper mills, Bhadravathi
- KIOCL, Kudremukh and Maangalore
- Khoday's Glass Factory, Kanakapur Road, Bengaluru
- KSDL, Bengaluru
- Wheel & Axle Factory, Bengaluru
- KMF Dairy, Bengaluru
- Bhoruka steels, Bengaluru
- Mysugar, Mandya
- Mysore Acetate Factory, Mandya
- CIPET, Mysore
- GE, Bengaluru
- Rallies' Research Centre, Peenya, Bengaluru
- e-Waste Recycling Unit, Dabaspeta, Tumkur Road
- Ce-Chem pharmaceuticals, Peenya, Bengaluru
- CIPLA pharmaceuticals, Bengaluru
- Vijaya Metal Finishers, Peenya, Bengaluru
- Heidenberg Cement Factory (Mysore Cements), Ammasandra
- KMF Dairy, Tumkur
- Akzonobel India (Paint Industry)
- Shriram Institute for Industrial Research