

CURRICULUM VITAE

Dr. Koteswara Rao Bandi

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Research Interests

Chemical sensors, Optical sensors, Electrochemical sensors, Organic synthesis, Ion-selective membrane electrodes etc....

Educational Qualifications

- **Doctor of Philosophy** : (2009–2014), Topic entitled “Synthesis of Chelating Ionophores and Electroanalytical Applications as Chemical Sensors”, Department of Chemistry, Indian Institute of Technology, Roorkee, India.
- **Master of Science** : (Organic Chemistry, 2006–2008) from Bapatla Engineering College, Acharya Nagarjuna University, Guntur, India.
- **Bachelor of Science** : (Chemistry, Physics and Mathematics, 2003–2006), B.C.A.S. College, Bapatla, Acharya Nagarjuna University, Guntur, India.

Professional Experiences

- **Assistant Professor** : (13/07/2017 – Present) In Ongole Campus, Rajiv Gandhi University of Knowledge Technologies, Ongole, Prakasham (Dt.), Andhra Pradesh.
- **Assistant Professor** : (01/03/2016 – 11/07/2017) In Chirala Engineering College, Chirala, Prakasham (Dt.), Andhra Pradesh (Affiliated to JNTU, Kakinada).
- **Postdoctoral Fellow** : (08/12/2014 – 15/02/2016) In Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fujian, Fuzhou, P. R. China.
- **Assistant Professor** : (23/12/2013 – 06/12/2014) In Chirala Engineering College, Chirala, Prakasham (Dt.), Andhra Pradesh (Affiliated to JNTU, Kakinada).
- **Lecturer** : (02/06/2008 – 27/12/2008) In S.V.R.M. College, Nagaram, Guntur (Dt.), Andhra Pradesh (affiliated to Acharya Nagarjuna University).

Fellowships

- Holder of CAS President’s International Fellowship Initiative (PIFI) for the year 2015.
- Holder of Ministry of Human Resource Development (MHRD) fellowship during Ph.D from Indian Institute of Technology, Roorkee.

- Received the International Travel Support (its) from Department of Science and Technology (DST), India, 2012, to attend the conference at Prague.

Memberships

- Member of “*International Society of Electrochemistry (ISE)*” [11825].
- Life member of “*Indian Society for Electroanalytical Chemistry (ISEAC)*” [LM-202].
- Life member of “*The Electrochemical Society of India (ECSI)*” [LM-254].

Faculty Development Programme:

1. “*Royal Society Of Chemistry Yusuf Hamied Inspirational Chemistry Programme*”, organized by Department of Chemistry, IIIT Nuzvid, RGUKT; during 28th – 29th April, 2019.
2. “*ICT Mode of teaching and learning Practicess*”, organized by RK Valley Campus, RGUKT; during 02nd – 07th January, 2019.

Achievements and Additional Qualifications

- Resource Person: One day UGC recognized webinar entitled “Recent Outcomes in Material Chemistry (ROMC-2021)”, organized by Department of Chemistry (PG).
- Chaired (Sessions Big Data and Special Session) in the “*International Conference on Big Data Analytics and Computational Intelligence*”, organized by IEEE Computational Intelligence Society, USA, held at Chirala Engineering College, Chirala India, 23rd–25th March, 2017.
- Best poster Award in “**11th ISEAC International Discussion Meet**”, Amritsar, India, 2014.
- Passed **Post Graduated Diploma in Programming Concepts (PGDPC)** in 2003 (@ Baba Computers and Systems, Guntur.K.V.R, K.V.R. & M.K.R. College, Khajipalem,
- 2nd Prize on “**Spot Painting**”, organized by Sri Ramakrishna Seva Samithi, Bapatla, Andhra Pradesh for the academic year 2001–2002.
- Passed “**Type Writing English Lower (30 W. P. M)**” held by State Board of Technical Education and Training on 2002.
- Cleared **Graduate Aptitude Test in Engineering (GATE)** in 2008.

Publications

1. **Koteswara Rao Bandi**, Ashok Kumar Singh*, Kamaluddin, A. K. Jain, V. K. Gupta, “*Electroanalytical Studies on Cobalt(II) Ion-Selective Sensor of Polymeric Membrane Electrode and Coated Graphite Electrode Based on N₂O₂ Salen Ligands*”, **Electroanalysis**, 23 (2011) 2839–2850.

DOI: 10.1002/elan.201100461

2. Anjali Upadhyay, A. K. Singh*, A. K. Jain, Vinod Kumar Gupta, **Koteswara Rao Bandi**, “*Potentiometric study of coated graphite electrode and polymeric membrane electrode for the determination of Sm^{3+} ion*”, **Electroanalysis**, 24 (2012) 1630–1638.
DOI: 10.1002/elan.201200050
3. Ashok Kumar Singh*, **Koteswara Rao Bandi**, Anjali Upadhyay, A. K. Jain, “*A comparative study on fabrication of Mn^{2+} selective polymeric membrane electrode and coated graphite electrode*”, **Materials Science and Engineering C**, 33 (2013) 626–633.
DOI:10.1016/j.msec.2012.10.007
4. **Koteswara Rao Bandi**, Ashok Kumar Singh*, Anjali Upadhyay, “*Biologically active Schiff bases as potentiometric sensor for the selective determination of Nd^{3+} ion*”, **Electrochimica Acta**, 105 (2013) 654–664.
DOI:10.1016/j.electacta.2013.05.038
5. Anjali Upadhyay, Ashok Kumar Singh*, **Koteswara Rao Bandi**, A. K. Jain, “*Fabrication of coated graphite electrode for the selective determination of europium (III) ions*”, **Talanta**, 115 (2013) 569–576.
DOI:10.1016/j.talanta.2013.06.001
6. **Koteswara Rao Bandi**, Ashok Kumar Singh*, Anjali Upadhyay, Kamaluddin, “*Electroanalytical and naked eye determination of Cu^{2+} ion in various environmental samples using 5-amino-1,3,4-thiadiazole-2-thiol based Schiff bases*”, **Materials Science and Engineering C**, 34 (2014) 149–157.
DOI:10.1016/j.msec.2013.09.006
7. Anjali Upadhyay, Ashok Kumar Singh*, **Koteswara Rao Bandi**, “*Selective determination of Zn^{2+} ion in various environmental, biological and medicinal plant samples using novel coated graphite electrode*”, **Electroanalysis**, 25 (2013) 2453–2462.
DOI: 10.1002/elan.201300225
8. **Koteswara Rao Bandi**, Ashok Kumar Singh*, Anjali Upadhyay, Kamaluddin, “*Construction and performance characteristics of polymeric membrane electrode and coated graphite electrode for the selective determination of Fe(III)* ”, **Materials Science and Engineering C**, 36 (2014) 187–193.
DOI:10.1016/j.msec.2013.12.010
9. V. K. Gupta*, Ashok Kumar Singh, Shubhrajyotsna Bhardwaj, **Koteswara Rao Bandi**, “*Biological active novel 2,4-dinitro phenyl hydrazones as the colorimetric sensors for selective detection of acetate ion*”, **Sensors and Actuators B**, 197 (2014) 264–273.
DOI:10.1016/j.snb.2014.03.006
10. A. K. Singh*, Manoj Kumar Sahani, **Koteswara Rao Bandi**, A. K. Jain, “*Electroanalytical studies on Cu (II) ion-selective sensor of coated pyrolytic graphite electrodes based on $\text{N}_2\text{S}_2\text{O}_2$*

and $N_2S_2O_3$ heterocyclic benzothiazol ligands”, **Materials Science and Engineering C**, 41 (2014) 206–216.

DOI:10.1016/j.msec.2014.04.047

11. **Koteswara Rao Bandi**, Anjali Upadhyay, Ashok Kumar Singh*, A. K. Jain, “Nano level monitoring of Er(III) by fabrication of coated graphite electrode based on newly synthesized Schiff base as neutral carrier”, **Materials Science and Engineering C**, 62 (2016) 9–17.

DOI:10.1016/j.msec.2016.01.035

12. Qianping Lou, **Koteswara Rao Bandi**, Yanqiu Dong, Hongli Bao, Daliang Li, Qi Chen “Synthesis and Living Cell Imaging of a Novel Fluorescent Sensor for Selective Cupric Detection”, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 214 (2019) 146–151.

DOI:10.1016/j.saa.2019.02.013

Papers Presented in Conferences (Abroad)

1. **Koteswara Rao Bandi**, Ashok Kumar Singh, “Electroanalytical Studies on Cobalt(II) Ion Selective sensor of polymeric membrane electrode and coated graphite electrode based on N_2O_2 salan ligands”, (Poster Presentation).

“63rd Annual Meeting of the International Society of Electrochemistry”, organized by International Society of Electrochemistry, at Prague, Czech Republic; during 19th–24th August, 2012.

Papers Presented in Conferences (India)

1. **Koteswara Rao Bandi**, Hongli Bao, Li, “Novel Functional Thiopheno Azomethines as Fluorescent (Turn on) and colorimetric sensor for the Cu^{2+} ion”, (Oral Presentation).

1st International conference on “Recent Advances in Chemical, Pharmaceutical and Biological Sciences” (RACPABS-2020), organized by Department of Chemistry, University College of Science, Acharya Nagarjuna University, Guntur, during 5th – 7th March, 2020.

2. **Koteswara Rao Bandi**, Ashok Kumar Singh, “Electroanalytical detection of Fe^{3+} ion using polymeric membrane electrode and coated graphite electrode”, (Oral Presentation).

U.G.C. Sponsored One day International Seminar On “Recent Developments and Applications of Physico-Chemical Characterization Techniques” organized by Department of Chemistry (U.G & P.G), J.K.C.College, Guntur; during 04th January, 2019.

3. Shubhrajyotsna Bhardwaj, A. K. Singh, **Koteswara Rao Bandi**, “Selective colorimetric determination of acetate ion using novel 2,4-dinitrophenyl based hydrazones”, (Poster Presentation).

“International conference on recent advances in analytical sciences (RAAS – 2014)”, organized by Indian Society of Analytical Scientists, at Department of Chemistry, Indian Institute of Technology (BHU) Varanasi; during 27th – 29th March, 2014.

4. Neha Gupta, **Koteswara Rao Bandi**, Ashok Kumar Singh, “*Novel biologically active hydrazones for the colorimetric determination of cyanide and acetate Ions*” (Poster Presentation).

“International conference on recent advances in analytical sciences (RAAS – 2014)”, organized by Indian Society of Analytical Scientists, at Department of Chemistry, Indian Institute of Technology (BHU) Varanasi; during 27th – 29th March, 2014.

5. **Koteswara Rao Bandi**, Ashok Kumar Singh, “*Novel electroanalytical tool for the selective determination of Fe^{3+} ion using polymeric membrane electrode and coated graphite electrode*”, (Poster Presentation).

“11th ISEAC International Discussion Meet” organized by Indian Society for Electroanalytical Chemistry” at Amritsar, India; during 20th–25th February, 2014.

6. **Koteswara Rao Bandi**, Anjali Upadhyay, Ashok Kumar Singh, “*Novel electroanalytical technique for the selective determination of Cu^{2+} ions in various environmental samples*”, (Oral Presentation).

“Cognizance-2013”, organized by Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India; during 22nd–24th March, 2013.

7. **Koteswara Rao Bandi**, Ashok Kumar Singh, “*Selective determination of Nd^{3+} using polymeric membrane electrode and coated graphite electrode*”, (Oral Presentation).

“International Conference on Emerging Trends in Chemical Sciences”, organized by School of Chemical Sciences, Central University of Gujarat, Gandhinagar, India; during 14th–15th March, 2013.

8. Divya Singhal, **Koteswara Rao Bandi**, A. K. Singh, “*Novel polymeric Membrane Electrode and Coated Graphite Electrode based on Schiff bases for determination of Cu^{2+} ion*”, (Poster Presentation).

“International Conference on Emerging Trends in Chemical Sciences”, organized by School of Chemical Sciences, Central University of Gujarat, Gandhinagar, India; during 14th–15th March, 2013.

9. **Koteswara Rao Bandi**, Ashok Kumar Singh, “*A comparative study on fabrication of Mn^{2+} selective polymeric membrane electrode and coated graphite electrode*”, (Oral Presentation).

“International Conference on Materials Science and Technology (ICMST-2012)”, organized by St. Thomas College, Pala, Kottayam, Kerala, India; during 10th–14th June, 2012.

10. Jitender Singh, **Koteswara Rao Bandi**, Ashok Kumar Singh, “*Novel coated graphite electrode for the selective determination of $Gd(III)$ in rocks and waste water samples*”, (Oral Presentation).

“International Conference on Nanoscience and Technology in Chemistry, Health, Environment and Energy (NATCHEE-2010)”, organized by Dayalbagh Educational Institute (Deemed University), Agra, India; during 07th–09th January, 2010.

Short Term Courses and Conferences Participated

1. Participate and chaired (Sessions Big Data and Special Session) in the “*International Conference on Big Data Analytics and Computational Intelligence*”, organized by IEEE Computational Intelligence Society, USA, head at Chirala Engineering College, Chirala India, 23rd–25th March, 2017.
2. Participated in the “*Two – Day Workshop on Wealth from Waste and Pollution Awareness Online Monitoring, E-Waste Management and RoHs*”, organized by The electrochemical society of india, Choksi Hall, Indian institute of science campus, Bengaluru-560012, India, 21st–23rd March, 2016.
3. Participated in the “*International Workshop on Chemical Evolution and Origin of life*”, organized by Department of Chemistry, Indian Institute of Technology Roorkee, Uttarakhand, India, 21st–23rd March, 2013.
4. Participated in the “*4th Conference on Recent Trends in Instrumental Methods of Analysis*”, organized by Department of Chemistry, Indian Institute of Technology Roorkee, Uttarakhand, India, 18th–20th February, 2011.
5. Participated in the “*International Workshop on Chemical Evolution and Origin of Life*”, organized by Department of Chemistry, Indian Institute of Technology Roorkee, Uttarakhand, India, 05th–07th March, 2010.
6. Participated in a workshop on “*Web of Science – As Research Tool*”, organized by Mahatma Gandhi Central Library, Indian Institute of Technology Roorkee, Uttarakhand, India, 6th October, 2009.
7. Participated in “*National Seminar on Modern Trends in Chemistry*” organized at Hindu College, Guntur, Andhra Pradesh, India, 03rd–04th February, 2007.
8. Participated in “*National Seminar on Green Organic Synthesis in Pharmaceuticals an Overview*” organized at Siddhartha College of Arts & Science, Vijayawada, Andhra Pradesh, India, 15th December, 2007.

Reviewer for Journals:

1. Analytica Chimica Acta (Elsevier)
2. Electrochimica Acta (Elsevier)
3. Talanta (Elsevier)
4. Electroanalysis (Wiley)
5. Materials Science and Engineering C (Elsevier)
6. Chemistry and Biodiversity (Wiley)
7. ChemPhysChem (Wiley-VCH)

Administrative Work:

1. Co-Ordinator, Stores and Purchases, Ongole Campus, RGUKT – A.P. for period 17/11/2021 – 23/02/2023.
2. Additional Dean Academics, Ongole Campus, RGUKT – A.P.
3. HoD, Department of Chemistry, Ongole Campus, RGUKT – A.P. [02/11/2017 – 10/07/2019].
4. Warden, Boys hostel, Ongole Campus, RGUKT – A.P. [02/11/2017 – 27/01/2018].
5. NSS Programme Officer, Chirala Engineering College [Unit No: 10-048] for period 16/12/2015 – 11/07/2017.
6. Member of R&D Committee, Chirala Engineering College.
7. Member of Students activities committee, Chirala Engineering College.
8. Member of Discipline committee, Chirala Engineering College.

Programmes Conducted as NSS PO [Unit No: 10-048]:

1. “*Blood Donation Camp*” was conducted at Chirala engineering college to help Chirala Area Hospital on 17th December, 2016.
2. “*Swatcha Bharat*” programme was conducted at Chirala engineering college on 07th January, 2017.
3. On the occasion of “*Youth Day*”, essay writing and Drawing competitions were conducted at Chirala engineering college on 12th January, 2017.
4. On the occasion of “*Voters Day*”, essay writing and debate competitions were conducted at Chirala engineering college on 25th January, 2017.
5. “*Independence Day*”, was celebrated at Chirala engineering college on 26th January, 2017.
6. On the occasion of “*Science Day*”, poster presentations were conducted at Chirala engineering college on 28th February, 2017.
7. “*7 Days NSS Special Camp*” was conducted at adopted village Odarevu from 01st March, 2017 to 07th March, 2017.
8. Participated in the “*Rotary Day*”, at Vignana Bharathi College, Chirala on 08th May, 2017.
9. “*International Yoga Day*”, was conducted at Chirala engineering college on 21st June, 2017.