Publications
Dept:CHEMISTRY

Faculty name: Dr.KIRAN KUMAR S R

Journal Publications:

National and International List of Publications

1) "Electrochemical Studies of Dopamine Using Titaniumdioxide Nanoparticle Modified Carbon Paste Electrode". **S.R Kiran Kumar .** *Analytical & Bioanalytical Electrochemistry Anal. Bioanal. Electrochem., Vol. 7, No. 2, 2015, 175- 185.*

2) "Synthesis and Characterization of Copper Oxide Nanoparticles: To Study Voltammetric Response of Biomolecules." **S.R Kiran Kumar** Springer- ISSN 1068-3755, Surface Engineering and Applied Electrochemistry, 2016, Vol. 52, No. 5, pp. 469–474. **(Impact Factor-0.29)**

3) "Synthesis and characterization of ZnO-CuO nano-composites and its application in modified carbon paste electrode for electrochemical detection of Dopamine, Folic acid and Paracetomol" **S.R Kiran Kumar,** Journal of Chemical, Biological and Physical Sciences Section-A, (**Chemical Sciences**) , J. Chem. Bio. Phy. Sci. Sec. A, May 2016 – July 2016; Vol.6, No.3; 821-833. **(Impact Factor-1.08)**

4) "Hydrothermal Synthesis of Hierarchical Copper Oxide Nanoparticles and its Potential Application as Adsorbent for Pb(II) with High Removal Capacity". **S. R. KiranKumar.** Separation Science and Technology, 49: 2389–2399, 2014 Taylor & Francis Group. **(Impact Factor-1.2)**

5) "Cost effective and shape controlled approach to synthesize hierarchically assembled NiO nanoflakes for the removal of toxic heavy metal ions in aqueous solution". **S. R. Kiran Kumar** Bull. Mater. Sci.Vol. 38, No. 1, February 2015, pp. 1–12. Indian Academy of Sciences. **(Impact Factor-1.07)**

6) "ZnO-NiO nanocomposites as highly recyclable adsorbent for effective removal of Pb(II) and Cd(II) from aqueous solution". **S.R. Kiran Kumar**, Proceedings of the "International conference on Advanced nanomaterials & Emerging Engineering Technologies" organised by Sathyabama University, Chennai, India. 24th -26th July 2013. IEEE, ISBN: 978-1-4799-1377-0. **IF: 1.017. Citations: 19**.

7) "Synthesis, Characterization And Application Of Hierarchically Assembled Zinc Oxide Nanorods For The Removal Of Hg(II) From Waste Water'' H.B. Muralidhara , .Yogesh Kumar , **S.R Kiran Kumar.** ISBN No :978-81-928203-2-3.

8) "Synthesis and Characterization of Hierarchical Nickel Oxide (NiO) Nanoparticles and its application in Modified Carbon Paste Electrode for Electrochemical Detection of Biomolecules". **S.R Kiran Kumar , Journal of Chemical and Pharmaceutical Research, 2016, 8(8):633-639. (IF-0.46).**

9) "Fabrication of carbon nanospheres using natural resources and their voltametric studies of dopamine". **S.R Kiran Kumar, MATERIALS Today E**lsevier, 5 (2018) 3093–3098.

10) "Synthesis and characterization of Hierarchically assembled ZnO Nanoparticles and its application in modified carbon paste electrode for electrochemical detection of Biomolecules " . **S.R Kiran Kumar ,** MATERIALS Today E**lsevier** ISSN 2214-7853 Volume 5, Issue 10 P1 (2018) **Materials** Today: Proceedings 5 (2018) 20947–20954.

11) "Synthesis and characterization of ZnO-NiO nano-composites and its application in modified carbon paste electrode for electrochemical detection of Dopamine, Folic acid and Paracetomol". **S.R Kiran Kumar ,** K. Yogesh Kumar, G.P Mamatha, Communicated to Springer - Cluster Sciences 2020.

12) "Highly efficient multipurpose graphene oxide embedded with copper oxide as nanohybrid for electrochemical sensors and biomedical applications" **S.R Kiran Kumar ,** Published in Elsevier **- Journal of Science: Advanced Materials and Devices. (DOI: 10.1016/j.jsamd.2017.08.003)**

13) "Facile synthesis of Nanocrystalline β-$SnWO_4$ investigation of efficient catalyst for photocatalytic activities, Bio sensing and high performance anode material for Li-ion battery", **S. R. Kiran Kumar**, Published in SN Applied sciences Springer Nature journal-2019. (https://doi.org/10.1007/s42452-019-1163-3)

14) "Mesoporous carbon nanospheres developed by using natural bio-resources as highly responsive and selective determination platform for dopamine", **S.R. Kiran Kumar**, Communicated to Springer - International Nano Letters 2020.

15) "Synthesis and characterization of ZnO nanorods for Voltammetric detection of Dopamine, Folic acid and Paracetamol", S.R Kiran Kumar, Journal of Chemical, Biological and Physical Sciences Section-A, (Chemical Sciences) JCBPS; Section A; November 2017 – January - 2018, Vol. 8, No. 1; 028-039. E- ISSN: 2249 –1929 [DOI: 10.24214/jcbps.A.8.1.02839.]

List of Papers/Posters Presented in National and International Conferences/Workshops/Symposia

1. "Cyclic voltammetric investigation of dopamine at cresol red modified carbon paste electrode" -**Kiran Kumar.S.R,** Kumarswamy. B.E., National conference on carbon materials Dept of chemistry ,Govt Arts, science and Commerce college, sanquelin, 2012 Goa.

2. "Electrochemical Studies of Dopamine at Titanium di-oxide nanoparticles Modified Carbon Paste Electrode A Cyclic Voltammetric Study''- **Kiran Kumar.S.R**, K. Yogesh Kumar, H.B. Muralidhara, Kumarswamy. B.E International Conference ICCSEM-13, Dayanand Sagar Group of Institution held on January 27th to 29th 2013, in Bengaluru.

3. "Synthesis and characterization copper oxide nanoparticles: To study voltammetric response of biomolecules and antimicrobial activity" - **Kiran Kumar.S.R**, G.P Mamatha, K. Yogesh Kumar, H.B. Muralidhara India nano 2014 December 5-6, 2014 International Conference Bengaluru.

4. "Adsorptive removal of Hg(II) Ions fro Aqueous solution on NiO nano particles prepared from hydrothermal method; Equilibrium, Kinetics and thermodynamic study". K.Yogesh Kumar, H.B.Muralidhara, Kiran **Kumar.S.R** International Conference on Nano Science & Engineering Applications Hyderabad ICONSEA-2014 ISBN NO: 978-81-924726-2-1.

5. **Kiran Kumar.S.R** Attended National Seminar on "**Nanotechnology – Past, Present & Future**" held at the Department of Chemistry, Kuvempu University, Shankaraghatta.

6. "Hierarchical Copper Oxide Nanoparticles: Synthesis and its Potential Application as Adsorbent for removal of Pb(II) and Hg(II) by using Electro-Analytical technique". K.Yogesh Kumar, H.B.Muralidhara, **Kiran Kumar.S.R** International Conference ICCSEM-13, Dayanand Sagar Group of Institution, held on January 27th to 29th 2013, in Bengaluru.

7. "ZnO-NiO nanocomposites as highly recyclable adsorbent for effective removal of Pb(II) and Cd(II)from aqueous solution" K.Yogesh Kumar, H.B.Muralidhara, **Kiran Kumar.S.R** International Conference ICANMEET-13, Sathyabama University held on July 24th to 26th 2013, in Chennai.

8. **"**ZnO-NiO nanocomposites for the removal of lead from waste water". K. Yogesh Kumar**,** H.B. Muralidhara, **S. R. Kiran Kumar**, National conference on recent trends in aterials science & Technology, Indian Institute of Space Science and Technology, Thiruvananthapura, Kerala, July 10-12, 2013.

9. *"*Synthesis, Characterization And Application Of Hierarchically Assembled Zinc Oxide Nanorods For The Removal Of Hg(II) From Waste Water'' H.B. Muralidhara , K.Yogesh Kumar , **Kiran Kumar.S.R** National conference on nanoscience and nanotechnology, BMS Institute of Technology , Bengaluru , held on 11th October 2013.

10. **"**Synthesis of Hierarchical Copper Oxide Nanoparticles and its Potential Application for the removal of dyes**".** K. Yogesh Kumar**,** H.B. Muralidhara, S.R **Kiran Kumar.** NCASH -2015 Bengaluru-560062.

11. **Kiran Kumar.S.R** Attended climate science educational programme 2015 organized by DIVECHA CENTRE FOR CLIMATE CHANGE centre for atmospheric and oceanic sciences Indian Institute of Science, Bengaluru.

12. **"**Synthesis and Characterization of Hierarchical Nickel Oxide (NiO) Nanoparticles: To study voltammetric response of biomolecules ". **S.R Kiran Kumar,** G.P Mamatha , H.B. Muralidhara National conference on IDEAS -2016 KERALA.

13. **"**Synthesis and Characterization of copper oxide Nanoparticles: To study voltammetric response of dopamine and ascorbic acid ". **S.R Kiran Kumar** , G.P Mamatha, National conference on Advanced Functional Materials (AFM-2015) Dayanand Sagar Group of Institution Bengaluru. ISBN: 978-93-85682-04-9.

14. **Kiran Kumar.S.R** Attended Faculty Development Program **"***Writing Research Proposals"* **on** 1st February, 2016 organised by K.S.Instiute of Technology Bengaluru.

15. **Kiran Kumar.S.R** Attended Faculty Development Program on "R & D Funding Opportunities and Intellectual Property Rights" Organized by "IPR / IEI, KSIT" From 28th -30th 2016, Bengaluru.

16. **"**Synthesis and Characterization of Nickel Oxide Nanoparticles: To study voltammetric response of dopamine and paracetamol" **S.R Kiran Kumar** , G.P Mamatha, Oral presentation in the National conference on Chemical & Bio- Chemical Aspects in Pharmaceutical Applications (NCCBAPA-2016) organised by Kuvempu University.

17. **"**Synthesis and Characterization of Hierarchical copper oxide Nanoparticles Modified Carbon Paste Electrode for Electrochemical Detection To study voltammetric response of dopamine and ascorbic acid" **S.R Kiran Kumar** , Oral presentation in the National conference on Recent Advances in Applied Sciences (RAAS-2016) organised by AMC Engineering College Bengaluru.

18. *"*Synthesis & Characterization of copper oxide Nanoparticles Voltammetric determination of Dopamine, Ascorbic Acid, Potassium Ferricyanide and antimicrobial activity of Copper oxide nanoparticles". **S.R Kiran Kumar** , Oral presentation in the National conference on Convergence of Science, Tecchnology & Management (NCCCSTM-2016) has been **Awarded Best Presented paper** ISBN : 978-93-84935-97-9.

19. **Kiran Kumar.S.R** Attended one week FDP Program on "Recent Advances in Chemistry of Materials for Engineering Applications" **(RACMEA-2016)** 11th to 15th July 2016, BMS College of Engineering, Benaluru-19.

20. "Synthesis and characterization of ZnO-CuO nano-composites and its application in modified carbon paste electrode for electrochemical detection of Dopamine, Folic acid and Paracetomol". Oral presentation by **Kiran Kumar.S.R** in the National conference on Recent advances in material science & its applications **(RAMSA-2016)** at school of Engineering and Technology , Jain University Bengaluru.

21. "Synthesis and characterization of Hierarchically assembled ZnO Nanoparticles and its application in modified carbon paste electrode for electrochemical detection of Biomolecules" **Kiran Kumar.S.R** Oral presentation in the International conference on Smart Engineering Materials **(ICSEM)** held in R V College of Engineering, Bengaluru From 20-22 October, 2016.

22. "Synthesis and characterization of SnO_2 Nanoparticles and its application in modified carbon paste electrode for electrochemical detection of Biomolecules", **Kiran Kumar.S.R** Oral presentation in the National conference on Current Advance in Science and Technology **(NCCAST – 2017)** 10th - 12th May 2017, held in K.S.Institute of Technology Bengaluru, ISBN; 978-81-929425-4-4.

23. **Best Research Paper award for the paper entitled "**Review of Nano-materials Types, Recent Advances and Future Engineering Applications**" Kiran Kumar.S.R** Oral presentation in the National conference on Current Advance in Science and Technology **(NCCAST – 2017)** 10th - 12th May 2017, held in K.S.Institute of Technology Bengaluru, ISBN; 978-81-929425-4-4.

24. "A Review Study of Nanotechnology in Mechanical Engineering Applications"**, Kiran Kumar.S.R** Paper presentation in the National conference on Current Advance in Science and Technology **(NCCAST – 2017)** 10th - 12th May 2017, held in K.S.Institute of Technology Bengaluru, ISBN; 978-81-929425-4-4.

25. "A Review of Nanotechnology and its Applications in the field of Computer Science", **Kiran Kumar.S.R** Oral presentation in the National conference on Current Advance in Science and Technology **(NCCAST – 2017)** 10th - 12th May 2017, held in K.S.Institute of Technology Bengaluru, ISBN; 978-81-929425-4-4.

26. **Kiran Kumar.S.R** Attended Faculty Development Programme-Workshop on ''Recent Advances in Basic Sciences for Engineering Applications'' (FDP-Nano 2017) JAN.8th-10th ,2018, DSATM Bengaluru.

27. "Highly efficient multipurpose graphene oxide embedded with Nickel oxide as nanohybrid for electrochemical sensors applications", **Kiran Kumar.S.R** Oral presentation in the National conference on Recent advances in Chemical & Material science- (RACMS-2018) held on 3rd February 2018 at at school of Engineering and Technology , Jain University Bengaluru.

28. "Synthesis and characterization of ZnO-NiO nano-composites and its application in modified carbon paste electrode for electrochemical detection of Biomolecules", **Kiran Kumar.S.R** Poster presentation in the National conference on Recent advances in Chemical Biology & Material science- (RACBMS-2018) held on 9th & 10th February-2018 Organized by Department of Industrial Chemistry Kuvempu University Shankaraghatta-577451 Shivamogga Dist. Karnataka.

29. "Synthesis and Characterization of Highly Efficient Multipurpose Graphene oxide–Copper oxide nanocomposites for the Study of Antimicrobial, Activity Anticancer Activity and Voltammetric Response of Biomolecules", **Kiran Kumar.S.R** *Poster* presentation in the National conference on Advanced Material for Heaalth, Energy & Environment held on 23rd & 24th March -2018 Organized by by Department of Chemistry, JSS University, Mysuru.

30. "Synthesis of Nano-composites and its application in modified carbon paste electrode for electrochemical detection of Biomolecules", **Kiran Kumar.S.R** Oral presentation in the International conference on Materials and Comutational intelligence organised by REST Society for Research international and SRIEIT, Goa on 28-29th Septemper 2018.

31. Kiran Kumar.S.R Attended Faculty Development Programme-Workshop on Student Induction during 21-23rd June 2018 at SVCE Bangalore organized by AICTE.

32. Kiran Kumar.S.R Attended the workshop on Sustainable Technology held on 28/03/2019 at VTU Regional office Bengaluru.

33. Kiran Kumar.S.R Attended the workshop on three days Faculty Development Programme on "OUTCOME BASED EDUCATION-NBA" on wednesday 17th to 19th July 2019 at KSIT Bengaluru.

34. Kiran Kumar.S.R Participated in a three days online Faculty Development Programme on physics of materials organized by Department of Physics, Jain University from 28th to 30th May 2020.

Faculty name: Mrs.SHYLAJA K R

International paper

Presented a paper on nanocomposite polymers and its photo catalytic application in dye waste water treatment at RSRI CMCI 2018,shiroda,Goa.

National papers

1.Presented a paper on nanocomposite polymers in NCCAST-2017 at KSIT,Bangalore.

2.Presented a paper on Recent advances in chemical and materials science (RACMS) - 2018 at Jain University Bangalore.

3. Presented a paper on characterization of nano particles on RAMSA-2016 at Jain University, Bangalore.

4.Presented a paper on synthesis and characterization of nano particles in RAAS-2016 at AMC, Bangalore.

Faculty name: Mrs.RADHIKA K P

International paper

Presented a paper on "Synthesis ,Characterization of Nanocomposite polymers and its Photocatalytic application in Dye waste water treatment"at RSRI CONFERENCE ON MATERIALS AND COMPUTATION INTELLIGENCE, GOA ON 28^{TH}-29^{TH} SEPTEMBER 2018.