

Dr. S. Suresha , Dept. Environmental Science

RESEARCH PUBLICATIONS

1. Review Article

1. Sources, Toxicity and Recovery of Silver from Secondary sources: A Review, A.A. Syed and S. Suresha, **Chemical and Environmental Research** 15(1&2) 2006

2. Research Publications – International Journals

1. Clean technology for the recovery of silver from processed radiographic films, S. Syed, S. Suresha, L.M. Sharma and A.A. Syed, **Hydrometallurgy** 63(3) (2002) 277-280.
2. Sensitive and selective spectrophotometric determination of mercury(II), nickel(II), copper(II) and cobalt(II) using iminodibenzyl and 3-chloroiminodibenzyl as new reagents and their applications to industrial effluents and soil samples, S. Suresha, M.F. Silwadi and A.A. Syed, **International Journal of Environmental Analytical Chemistry** 82(5) (2002) 275-289.
3. Optical and chemical methods of metal ash analysis and tin recovery, S. Suresha A.A. Syed and B Basavalingu. **Chemical and Environmental Research** 15(3&4) 2007
4. Micro and sub micro analysis of trace metals in metal ash by Inductively Coupled Plasma Mass Spectrometry, A.A Syed, S. Suresha, V.Balaram and K.Chandrashekar. **Chemical and Environmental Research** 15 (3&4) 2006.
5. Assessment of physico Chemical features and phytoplankton on selected lakes of Mysore, J.Mahadev, A.B. Doddamani, S. Suresha and A.A. Syed. **Journal of Ecotoxicology & Environmental Monitoring**, 21(2) 137-142 (2011)
6. Comparative studies on Algal flora in relation to Physico-chemical Parameters from River Cauvery and its Tributaries. J.Mahadev, Suresha. S and Syed Akheel Ahmed , **International Journal of Lakes and Rivers Volume 4. Number 1(2010), pp 35- 49**
7. Synthesis, characterization, and photocatalytic properties of surface-modified, silver-doped ZnO. K. Namaratha, S. Suresha, M.B. Nayan, K. Byrappa, **Res Chem Intermed, Springer journal (2011)37:531-539**
8. Impact of agricultural runoffs on River Shimsha, Maddur, Karnataka, India, J Mahadev, Usman Taqui Syed and S. Suresha. **International Journal of Lakes and Rivers** Volume 4. Number 2 (2011), pp 199-205.
9. Calculating Algal Diversity Indices in River Cauvery by Past Software Program. J.Mahadev, Suresha. S, Nagarathna and Syed Akheel Ahmed. **Global Journal of Applied Environmental Sciences**, Volume 1, no.2 (2011) .207-219
10. Species richness and diversity of chlorophyceae and bacillariophyceae in Cauvery River, Mysore, India. J Mahadev, Usman Taqui Syed and Suresha S. **International journal of Water Resources and Environmental Engineering**, Vol.3(14) Dec -2011, pp 380-384
11. Decolorization of a synthetic dye – Yellow 5GN by *Pseudomonas aeruginosa* using response surface methodology. N. Hema, S. Satish and S. Suresha Scholar Research Library, **J of Microbiol Biotech Res.**, 2013, 3(3):147-154

12. Removal of Zn (II) ions from aqueous solution and industrial waste water using leaves of *Araucaria cookii*. C. N. Deepa, Jayadevappa and **S. Suresha**. Scholar Research Library, ***Archives of Applied Science Research***. 2013, 5 (4):117-126
13. Adsorption of Pb(II) from aqueous solution using NPP-modified bentonite as adsorbent. Sandeep, B.N., and **Suresha, S.**, ***Ecoscan*** 7(1&2): pp 27-30, 2013
14. Adsorption of malachite green using NPP-modified bentonite in synthetic medium and textile wastewater. Sandeep, B.N., and **Suresha, S.**, ***Asian Journal of Environmental Science*** Vol 8 (1) pp 28-32, 2013
15. Ecotourism in Bagalkot District, Karnataka, India: An assessment of the inhabitants' awareness level and attitudes, Nichola Anastasia Ramchurjee and **Suresha S**, ***International Journal of Environmental Science*** (2013)Vol 3, No.6, 2278-2290
16. NPP-modified bentonite for adsorption of Ni (II) from aqueous solution and electroplating wastewater. Sandeep, B.N and **Suresha, S.**, (2013). ***International Journal of Environmental Science*** Vol 4, No. 1, 113-122
17. Pilgrimage Tourism- Behavioral Perspective of Tourists in Dakshinnada, Karnataka, India. Nichola Anastasia Ramchurjee, **Suresha S**. ***Asian Journal of Multidimensional Research*** (2013) Vol 2, Issue 12, 15-25
18. Are Tourists' Environmental Behavior affected by their Environmental Perceptions and Beliefs? Nichola Anastasia Ramchurjee, **Suresha S** and Suresha K.P, ***Scandinavian Journal of Hospitality and Tourism*** (In Press)
19. Contribution of Tourists Environmental Behaviors Towards Green Tourism in Mysore, India, Nichola Anastasia Ramchurjee and **Suresha S**. ***Midas Touch International Journal of Commerce, Management and Technology*** (2014) Vol 2, No. 1, 239- 249
20. Evaluation of Physico-Chemical Characteristics of Leachate and its Impact on Ground water Quality in Mysore City, Karnataka, India Lathamani M. R. Janardhana And **S. Suresha**. ***Midas Touch International Journal of Commerce, Management and Technology*** (2014) Vol 2, No. 1, 250- 260
21. Ecotourism: A Case Study of Environmental Responsible Behavior of Tourists in Mysore, Karnataka, India. Nichola Anastasia Ramchurjee and **Suresha S** ***ZENITH International Journal of Multidisciplinary Research*** Vol.4 (3), MARCH (2014)
22. Influence of Culture Conditions on Decolorization of Patent Blue by *Pseudomonas Aeruginosa* using Response Surface Methodology. N. Hema, and **S. Suresha**. ***Life Sciences International Research Journal***, Vol 1, issue 1 (2014)
23. Kinetic and Isothermal Studies on the Removal of Copper (II) from Aqueous Solution by *Araucaria cookii*: Response Surface Methodology for the Optimization of Parameters. Deepa C.N, A.A. Syed and **Suresha S**. ***International Journal of Recent Scientific Research***, Vol. 5, Issue 4 (2014) pp 820-827.

24. Bioremediation of Textile Dye Effluent by *Shewanella putrefaciens* N. Hema, and **S. Suresha**. ***International Journal of Pharmacy and Biological Sciences, IJPBS***, Vol 4, Issue 2, (2014) pp 109-116.
25. Dye Decolorization by *Penicillium oxalicum*: Application of Plackett-Burman Experimental Design to Evaluate Nutritional Requirements" N. Hema, and **S. Suresha**. ***International Journal of Recent Scientific Research***, Vol. 5, Issue 7 (2014) pp 1347-1352
26. Biosorption of Lead (II) from aqueous solution and industrial Effluent by using leaves of *Araucaria cookii*: Application of Response Surface Methodology, Deepa C. N, **Suresha. S.** ***IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)*** Volume 8, Issue 7 Ver. I (2014), PP 67-79
27. Application of Water Quality Index Method to Assess Ground Water Quality in Mysore City, Karnataka, India. Lathamani R, M.R. Janardhana, **S. Suresha**. ***International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)***, Vol 3, special issue 5, (July 2014) pp 501-508
28. Removal of Chromium (VI) in aqueous Solution and Industrial Wastewater Using Pods of *Prosopis Spicigera*. C.N Deepa, and **S. Suresha**. ***International Journal of Pharmacy and Biological Sciences, IJPBS***, Vol 4, Issue 2, (2014) pp 234-243.
29. Biosorption of Ni (II) from Aqueous solution and Industrial Waste Water by Leaves of *Araucaria cookii*: Deepa C. N, **Suresha. S.** ***Int. J. Res. Chem. Environ.*** Vol .4 Issue 4 Oct 2014. pp 101- 108
30. Ground Water Vulnerability Mapping in Mysore city using GIS and Drastic Model, Lathamani. R, **Suresha. S** and B. Mahalingam. ***International Journal of Researches In Biosciences, Agriculture & Technology***. May 2014 Issue-2, Volume-II, 729-740
31. Effect of Sewage Water Irrigation on Soil Properties and Evaluation of the Accumulation of Elements in Grass Crop in Mysore city, Karnataka, India. Mohammed a. Alghobar, Lathamani R, **S. Suresha**. ***American Journal of Environmental Protection***. 2014; 3(5): 283-291
32. Evaluation of Aquifer Vulnerability using Drastic Model and GIS: A case Study of Mysore city area. Lathamani R, M.R. Janardhana, B. Mahalingum **S. Suresha**. ***Aquatic Procedia, Elsevier***, 2015 (in Press)
- 33 Biosorption Hg(II) in aqueous solution using dry pods of *P. Spicigera* ,**Deepa C. N, Suresha S, Life sciences international Research journal**, Vol 1Issue 2(2014)pp 475-486.

3. Presentation in Conferences/seminars/workshops

International Conference

1. Waste characterization from a plating industry: A case study, published in the proceedings of international conference, held during October 2000 at Bahrain, Saudi Arabia.
2. Presented a research paper in the “International National Conference ISHA 2010 on **“Synthesis, Characterization and Photocatalytic Properties of Silver Doped ZnO”** held on 27th to 29th July 2010 at Chinese Academy of Sciences, Beijing, China.
3. Presented a research paper entitled **“Hydrothermal Synthesis and photocatalytic studies of insitu surface modified silver Doped ZnO Nanoparticles”** in the International Conference IUMRS-ICA 2011 was held during 19 to 22 Sep. 2011 in Taipei, Taiwan.
4. Presented a research paper entitled **“In-Situ Surface Modification of ZnO Nanomaterials under Novel Hydrothermal solution Routes”** in the International Conference PCGMR Symposium NanoTechnology for Advanced Materials during 23 to 24 Sep. 2011 in the National Cheng Kung University Tainan Taiwan.

National Conferences

5. Environmental analysis of solid waste from plating industry. National conference on environmental pollution: Causes and remedies, held during October 8-9, 1998 at P.E.S. College of Engineering, Bangalore, India.
6. Chemical and optical studies on tin ash from plating industries, National symposium on chemistry, industries and environment, held during February 26-28, 1999, at Motilal Mahavidyalaya, Bhopal, India.
7. Role of analysis in environmental management: A case study, National seminar on recent trends in structure, function, analysis of molecules and application, held during October 28-30, 1999 at Department of studies in Chemistry, University of Mysore, Mysore, India, p. 38.
8. X-ray diffraction (XRD) and scanning electron micrograph (SEM) studies on certain metallic wastes from industries, presented at National Seminar on Environmental hazards – priorities and protection in the 21st century, held during 2-3 March 2001 at Department of studies in Environmental Science, University of Mysore, Mysore, India.
9. Clean technology for the recovery of silver and gold from secondary sources, Presented at National Seminar on Twentieth Conference-2001, Indian Council of Chemists held during 22-24 December, 2001, Department of Studies in Chemistry, University of Mysore, Mysore, India.

10. Newer spectrophotometric methods for the determination of certain aromatic carcinogens, Presented at National Seminar on Twentieth Conference-2001, Indian Council of Chemists held during 22-24 December, 2001, Department of Studies in Chemistry, University of Mysore, Mysore, India.
11. Participated in the Synergy Seminar on Advanced Analytical Technological and Industrial Development at NCCCM, Hyderabad on 15- 17September 2003.
12. Participating in State level Seminar on Frontiers of science and Technology at Yuvaraja's college, Mysore on 5 January 2004.
13. Micro and Sub micro analysis of tracer metals in Industrial waste by ICPMS, Presented at National seminar at RCEAS held during 15-17 march 2004,at S V University Tirupati, Andhrapradesh.
14. Environmental Management for Industrial Ecology; Anew approach based on Physical modeling, presented at International seminar GEO-Informatics, held during 18-20 December 2004 at Department of geology University of Mysore, Mysore.
15. Participated in the workshop on Environmental Education held on 9th October 2004 at J S S College Nanjanagud.
16. Participated in the National workshop on Applied Geo Chemistry in Mineral Exploration(Mineral, Water and Fuels) : Currents and Future Trends held on 25th &26th February 2009 at Dept of geology, University of Mysore, Mysore, Karnataka, India .
17. Participated in the National Seminar on Currents trends in Environmental Science and Sustainable Development. (NCESD-2009) held on 27th & 28th February 2009 at Dept of Environmental Science, University of Mysore, Mysore, Karnataka, India.
18. Participated in the National workshop on "Biofertilizers" held on 30th &31st August 2009 at Dept of Botany, Sri Venkateshwara University,Tirupati, Andhrapradesh., India .
19. Presented a research paper in lead lecturer on Algal biodiversity in the National Symposium on " Role of Biology and Biotechnology in Conservation of Biodiversity and sustainable Development" held on 22nd to 24th December 2009 at Dept of Botany, Gulbarga University, Gulbarga, Karnataka., India.
20. Presented a research paper on "Hydro chemical aspects of surface water pollution" in the National Conference on " National Conference on Recent Trends in Geo-science Research " held on 5th to 6th March 2010 at Dept of Earth Sciences, Annamalai University , Annamalai Nagar Tamilnadu
21. Participated in the Training Program on " Application of Hydro geochemical Modeling in Water Research" held from 1st to 5th March, 2010 at Dept of Earth Sciences, Annamalai University , Annamalai Nagar Tamilnadu.
22. Presented a research paper in the "International National Conference on Challenges to Biodiversity and Environment for sustainable Development" organized by JSS Maha Vidyapeetha Mysore. OISCA

International, Japan and Karnataka State Pollution Control Board held on 12th to 14th March 2010 at JSSTI Campus, Mysore, and Karnataka., India.

23. Participated in the one day state level seminar on “Ayurveda and Phytopharmaceuticals” held on 21st January 2011 at Postgraduate dep. of Biotechnology and Biochemistry, JSS College, Ooty Road, Mysore.
24. Spectrophotometric Determination of Sulfanilamide, Sulfamethoxazole and Sulfadoxine using Aescin” was presented in the National Conference held on 18th to 19th February 2011 at DRM Science College, Davenegeri, and Karnataka.
25. Influence of culture conditions on decolorization of Patent Blue by *Pseudomonas aeruginosa* using response surface methodology, N.Hema & Dr.S.Suresha, presented a paper at the International Conference on Agriculture, Veterinary & Life Sciences – 2014 (ICAVLS-2014), January 24th & 25th, Vijayawada, Andhra Pradesh.
26. Role of *Shewanella putrefaciens* in decolorization of Acid dye Red 3BN, N.Hema & Dr.Suresha, presented a paper at the International Conference on Biodiversity, Bioresources & Biotechnology, January 30th-31st, 2014, Mysore, Karnataka.
27. Biodecolorization of Chrysophenine using a bacterial isolate, *Shewanella Putrefaciens*, N.Hema & Dr.S.Suresha, presented a paper at the Environmental Conference 2014, February 17th -19th, Central University of Kerala, Kasargod, Kerala.
28. Bacterial Decolorization of a synthetic dye-Yellow 5GN using response surface methodology, N.Hema & Dr.S.Suresha, presented a poster at the KSTA Regional Conference on Science & Technology for Education and Health Care, February 21st-22nd, 2014, JSS College, Mysore, Karnataka.
29. Bioremediation of Textile Dye Effluent by *Shewanella putrefaciens*, N.Hema & Dr.S.Suresha, presented a paper at the National Seminar on Management of Urban Biodiversity: Issues, Challenges and Solutions, MUBICS 2014, September 1st-2nd, 2014, Christ University, Bangalore.
30. Optimization of Parameters for decolorization of Maroon V by Response Surface Methodology using *Shewanella putrefaciens*, N.Hema & Dr.S.Suresha, presented a paper at the International Conference on Biosciences: State-Of-The-Art-Advancements, September 11- 12th, 2014, Kumarakom, Kerala (Was conferred the Best Oral Presentation Award under the theme “Ecology

Other Academic activities:

Design of Curriculum : B. Sc Environmental Science, and 8th and 9th Standard (CBSE)

◆ **Extension Work/Community Service**

- Worked as NSS Officer for Three years in Yuvaraja’s College and conducted the two special village camp.

◆ **College/University/Institution(Former)**

- Active member for the College Jnanavahani Committee

- Active member for Discipline Committee in the College
- Active member for the Extension Committee in the College
- Faculty adviser for University Student Hostel

◆ **Co-curricular Activities**

- NSS Officer during 2004- 07 (03years) at Yuvaraj's College

◆ **Professional Organization of Teachers.**

- Member of Mysore University Teacher Association
- Member of Mysore University SC/ST Association
- Member of Yuvaraj's College Teachers Association

◆ **Membership of Professional Bodies, Societies etc.**

- Life member for Indian Society for Analytical Scientist
- Member for environmental biologist
- International Society for Solvothermal and Hydrothermal Association

QUALIFYING EXAM

State Level Eligibility Test (SLET) accredited by UGC, New Delhi, for Lectureship (1998)

Visit

1. Industrial Visit- to study the water treatment process
2. Zoo Visit to study the animals
3. Social forestry, National park Mining areas etc.

Research Scholars working under the supervision of Dr. S. Suresha

| Sl. No. | Name of the Research Scholar | Topics | |
|---------|-------------------------------|--|------------------|
| 1 | Smt. N. Deepa | “Analysis of liquid Waste for Heavy Metals and their Removal through various Biosorbents” | Thesis submitted |
| 2 | Sri. A.B. Doddamani | “ Studies on impact of industrial effluents on Ground water Qualities in Mysore Industrial Area” | |
| 3 | Smt. Hema N | Isolation, Screening and Optimization of Culture Conditions for Decolorization of Textile Effluent by Certain Microbial Isolates | |
| 4 | Sri Sandeep B.N | Adsorption of Heavy Metals and Dyes from Industrial Waste Water using different Clays as adsorbents | Awarded in 2014 |
| 5 | Ms. Lathamani | Evaluation of Leachate, Contaminants and Impact of Urban Environment on Ground Water Quality in Mysore city | |
| 6 | Mr. Abdella abdella (Foreign) | Studies on the Impact on Sewage Water on Agricultural Crop | |
| 7 | Ms. Nickhola (Foreign) | Ecotourism: Impact and Potential Contribution to Sustainable Development in Karnataka | Thesis Submitted |