



# PROF. DR. S. CHANDRAJU

PROFESSOR & DIRECTOR

Sir M. Visveswaraya Post-Graduate Center

University of Mysore, Tubinakere-571402, Karnataka, India

Phone Off: +91-8232-291112, Cell: +91-9964173700,

Fax: +91-8232-291111, Email: [chandraj1@yahoo.com](mailto:chandraj1@yahoo.com)



---

<b>Administrative position held</b>	:	<b>DIRECTOR</b>
<b>Designation</b>	:	<b>Professor</b>
<b>Department(s)</b>	:	Sugar Technology & Chemistry
<b>Date of Birth</b>	:	8 <sup>th</sup> February 1955
<b>Teaching Experience</b>	:	38 years
<b>Research Experience</b>	:	Actively engaged since 1992
<b>Recognized Ph. D guide for <b>Sugar Technology</b> and <b>Chemistry</b> from University of Mysore</b>		

## Qualification

- ☞ **Ph. D** (Chemistry) from University of Mysore, Mysore in 1997.
- ☞ **M. Phil.**, (Chemistry) from Mangalore University, Mangalore in 1994.
- ☞ **M. Sc.**, (Physical Chemistry) from University of Mysore, Mysore in 1977.

## Administrative position held

<b>Position held</b>	<b>From</b>	<b>To</b>	<b>Department/PG Center</b>	<b>Institution/University</b>
Director	22-10-2012	Till date	Sir M.V. PG Center	University of Mysore, Mysore
Course Coordinator	25-08-2012	Till date	Chemistry	University of Mysore, Mysore
Course Coordinator	13-10-2007	30-11-2012	Sugar Technology	University of Mysore, Mysore

## Academic positions

<b>Position held</b>	<b>From</b>	<b>To</b>	<b>Department</b>	<b>Institution/University</b>
Professor	13-10-2007	Till date	Sugar Technology & Chemistry	University of Mysore, Mysore
Reader	13-10-1999	12-10-2007	Sugar Technology	University of Mysore, Mysore
Selection grade lecturer (SGL)	01-07-1996	12-10-1999	Chemistry	Bharathi College, Bharathi Nagar

Sr. Lecturer	01-07-1988	30-06-1996	Chemistry	Bharathi College, Bharathi Nagar
Lecturer	04-10-1980	30-06-1988	Chemistry	Bharathi College, Bharathi Nagar
Lecturer	14-09-1979	15-07-1980	Chemistry	PES College of Engineering, Mandya
Lecturer	05-09-1977	13-09-1979	Chemistry	Yuvaraja's College, UOM, Mysore

### Online links

- <http://uni-mysore.ac.in/sugar-technology/>
- <http://www.scopus.com/authid/detail.url?authorId=6602922627>
- [http://scholar.google.com/citations?hl=en&user=bPPP5\\_YAAAAJ&view\\_op=list\\_works&pagesize=100](http://scholar.google.com/citations?hl=en&user=bPPP5_YAAAAJ&view_op=list_works&pagesize=100)

### Research Areas

- Kinetics and mechanistic study of Oxidation of some Amino acids by Mn (III)
- Extraction and isolation of sugars from food garbage
- Ethanol- Ester blended Fuels
- Studies on the utilization of Distillery Spent wash as an effective liquid fertilizer
- Solid State Chemistry

**Countries visited:** Thailand, Singapore, Malaysia, China, Srilanka and Mauritius

### Research Activities (Since 1994)

Research Publications	:	<b>174</b> (as on December 2014)
Papers presented at conferences	:	<b>48</b> (as on December 2014)
Conference attended	:	<b>33</b> (as on December 2014)
Ph.D. students Guided successfully	:	<b>09</b>
Ph. D. students currently working	:	<b>03</b>
M. Phil. students guided successfully	:	<b>01</b>

### Fellow/ Life Member of scientific Societies/Associations:

- South Indian Sugar Cane & Sugar Technologists Association (SISSTA).
- Fellow of Society of Environmental Sciences (F.S.E.Sc).
- Fellow of Hind Agricultural Society (F.H.A.S).

### Awards/Recognitions:

- ☆ State level "Best Teacher Award" for the year 2013 presented by Karnataka Kavalu Pade.
- ☆ Best oral presentation award, ICMBS-6, 2012 (Gold Medal)
- ☆ Best paper award, SISSTA, 2009 (Silver Medal)

- ☆ **State level “SHIKSHINA RATHNA Award” for the year 2014 presented by** Mysooru Sahithya Mathu Samskruthika Prathistana, Mysooru.

### Conference/Symposia Chaired at:

1. International conference on “Green Chemistry and Sustainable Environment (GCASE)-2010”, PG Department of Chemistry, Holy Cross College, Tiruchirappalli, **Tamil Nadu**, July 7<sup>th</sup> & 8<sup>th</sup> 2010.
2. 5<sup>th</sup> International Congress of Chemistry and Environment (ICEE-2011), **Malaysia**, May 27-29, 2011.
3. Sri Lanka-India conference on Agro Biotechnology for Sustainable Development (ABSD-2012), Colombo, **Sri Lanka**; 12-13<sup>th</sup> March 2012.
4. 6<sup>th</sup> International Conference on Management and Behavioural Sciences (ICMBS-6), Ahmedabad, **Gujarat**, 1-2 December-2012.

### Position held in Editorial Board/ Advisory Board/ Executive Council of journals:

Member	International Journal of Agricultural Sciences	Since June 2010
Member	Indian journal of Environment and Ecoplanning ( <a href="http://www.ecoplanning.in/journal-ijee.htm">http://www.ecoplanning.in/journal-ijee.htm</a> )	Since 2010
Member	Journal of Brewing and Distilling ( <a href="http://www.academicjournals.org/JBD/Email.htm">http://www.academicjournals.org/JBD/Email.htm</a> )	Since 2010
Member	Research in Plant Biology; An International Open Online Journal ( <a href="http://www.resplantbiol.com/editorial">http://www.resplantbiol.com/editorial</a> )	Since May 2011
Vice President	International journal of Agricultural sciences	Executive council from 2011
Honorary member	Bioresearch Bulletin ( <a href="http://bioresonline.com/editors.aspx">http://bioresonline.com/editors.aspx</a> )	Since Jan 2012

### National Seminars Organized

- **Convener** for one day National Seminar on “Latest developments in Continuous pan and Measures to improve profit in sugar industry” Organized at D.O.S. in Sugar Technology, P.G. Centre, Mandya, on 20<sup>th</sup> April, 2001.
- **Convener** for one day National Seminar on “ISO Quality system in TQM, WCM, for Sugar industry” Organized at D.O.S. in Sugar Technology P.G. Centre, Mandya, on 26<sup>th</sup> June, 2002.

### Details of Ph. D. students under my guidance

1. **K. B. Chandrashekar**: Role of polyelectrolytes on cane juice clarification in sugar industry: An investigation (Awarded Ph.D in Feb 2009).

2. **B. K. Prathima:** Ethanol as an alternative fuel for automobiles: an investigation (Awarded Ph.D in Nov 2009).
3. **H. C. Basavaraju:** Investigation of impact of irrigation of distillery spent wash on plants, vegetables and fruits (Awarded Ph.D in Nov 2009).
4. **R. Nagendraswamy:** Studies on the impact of distillery spent wash irrigation on medicinal plants (Awarded Ph.D in Oct 2010).
5. **R. Mythily:** Studies on the extraction of reducing sugars from food garbages (Awarded Ph.D in July 2013).
6. **Girija Nagendraswamy:** Impact of distillery spent wash irrigation on mulberry plants and growth of silk worms (Awarded Ph.D in Oct 2013).
7. **Ashraf Berami:** Effect of metal ions in identification of baby gender in high sugar mammals (Awarded Ph.D in August 2014).
8. **B. Ravi Prasad:** Studies on the implementation of systems, applications & products (sap) materials management (mm-module) in sugar industry (Awarded Ph.D in Sept. 2014).
9. **R. Venkatesh:** Studies on the quantitative estimation of reducing sugars from food garbage (Submitted thesis in Sept. 2014).
10. **L. Mohan Kumar:** Implication of distillery spent wash on the life cycle of some varieties of fishes (Registered for Ph. D. in May 2010).
11. **Siddappa:** Studies on the impact of distillery spent wash irrigation on oil seed plants and trees (Registered for Ph. D. in Jan 2011).
12. **C. Thejovathi:** Studies on the impact of distillery spent wash irrigation on flowering plants (Registered for Ph. D. in Jan 2011).

### Details of M. Phil., students under my guidance

1. **R. Nagendraswamy** -- Awarded M.Phil., in 2008  
Kinetics and mechanistic of oxidation of Phenoxy acetic acid by Chloramine-T in acid medium.

### Others:

- ☞ Reviewed many scientific papers for reputed National/ International journals
- ☞ Evaluated the Ph.D. thesis of many Indian Universities
- ☞ As subject expert for the selection of Readers & Professors under CAS at Sri Gurugobind Singh Ji Institute of Engineering & Technology, Nanded, Maharashtra.
- ☞ As resource person for Organic Jaggery production at Academic staff college, UOM, Mysore, Mandya, Chamrajanagar & Uttar Kannada Districts.

☞ Involved in framing M.Sc. Sugar Technology syllabus

## List of National / International Conferences attended

1. 32<sup>nd</sup> Annual Convention: South Indian Sugarcane and Sugar Technologist's Association, held at **Hyderabad**, 22<sup>nd</sup> September, 2000.
2. 33<sup>rd</sup> Annual Convention: south Indian Sugarcane and Sugar Technologist's Association, held at **Chennai**, 1<sup>st</sup> & 2<sup>nd</sup> October, 2001.
3. Two days national level seminar of Economics of health care services with reference to India and Karnataka, organized by D.O.S, in Economics, P.G. Centre, **Mandya**.
4. National seminar Organized at D.O.S. in Environmental Science, Manasagangotri, **Mysore**, 2<sup>nd</sup> & 3<sup>rd</sup> March, 2001.
5. One day Symposium held at **IISc, Bangalore**, 2<sup>nd</sup> may 2001.
6. 34<sup>th</sup> Annual Convention: South Indian Sugarcane & Sugar Technologist's Association held at **Bangalore**, 2002.
7. 38<sup>th</sup> Annual Convention: South Indian Sugarcane & Sugar Technologist's Association held at **Chennai**, August, 2007.
8. 39<sup>th</sup> Annual Convention: South Indian Sugarcane & Sugar Technologist's Association held at **Hyderabad**, 2008.
9. 40<sup>th</sup> Annual Convention: South Indian Sugarcane & Sugar Technologist's Association held at **Bangalore**, 31<sup>st</sup> July & 1<sup>st</sup> August, 2009.
10. 2<sup>nd</sup> Biopesticide International conference (BIOCICION) held at Palayamkottai, **Tamil Nadu**, 26<sup>th</sup> to 28<sup>th</sup> November, 2009.
11. International conference on "Current Trends in Chemistry and Bio-Chemistry" held at Central College **Bangalore** on 18<sup>th</sup> & 19<sup>th</sup> December, 2009.
12. 4<sup>th</sup> International Congress of Chemistry and Environment (ICCE-2009), Ubon Ratchathani University, **Thailand**, 21<sup>st</sup> to 23<sup>rd</sup> January, 2010.
13. Two days National symposium on Frontier Areas in Chemical Science and Nanotechnology (NSFACNT-2010), DOS in Industrial Chemistry, Kuvempu University, **Shimoga**, 1<sup>st</sup> & 2<sup>nd</sup> May-2010.
14. International conference on "Green Chemistry and Sustainable Environment (GCASE)-2010", PG Department of Chemistry, Holy Cross College, Tiruchirappalli, **Tamil Nadu**, July 7<sup>th</sup> & 8<sup>th</sup> 2010.
15. 9<sup>th</sup> joint convention of STAI & SISSTA, Chennai, **Tamil Nadu**, 19-21 Aug-2010.
16. International conference on advanced oxidation processes, Kottayam, **Kerala**, Sep 18<sup>th</sup> to 21<sup>st</sup>, 2010.

17. International conference on Environmental challenges: A global concern, **Jalandhar**, Oct 15<sup>th</sup> & 16<sup>th</sup> 2010.
18. Fourth international conference on plants & environmental pollution, **Lucknow**, Dec 8<sup>th</sup> to 11<sup>th</sup> 2010.
19. 5<sup>th</sup> International Congress of Chemistry and Environment (ICCE-2011), Glory Beach Resort, Port Dickson, **Malaysia**, 27<sup>th</sup> to 29<sup>th</sup> May, 2011.
20. 3<sup>rd</sup> Biopesticide International conference (BIOCACION-2011) held at Palayamkottai, **Tamil Nadu**, 28<sup>th</sup> to 30<sup>th</sup> November, 2011.
21. 4<sup>th</sup> International congress of environmental research, held at SVNIT, **Surat**, Dec 15-17<sup>th</sup> 2011.
22. 30<sup>th</sup> Annual conference of Indian council of Chemists, Osmania University, **Hyderabad**, 28<sup>th</sup> – 30<sup>th</sup> Dec 2011.
23. Sri Lanka-India conference on Agro Biotechnology for Sustainable Development (ABSD-2012), Colombo, **Sri Lanka**; 12-13<sup>th</sup> March 2012.
24. The second International Conference on Engineering Technology and Management (ICETM), 7-8, September 2012, **Tirupati**, INDIA.
25. 6<sup>th</sup> International Conference on Management and Behavioral Sciences (ICMBS-6) 1-2 December-2012, **Ahmedabad (Gujarat)**.
26. International conference on Spring World Congress on Engineering and Technology (SCET-2013) 31st May-2nd June, 2013, **Wuhan, China**.
27. International conference on Emerging Trends in Chemical and Pharmaceutical Sciences, Organized by Jawaharlal Nehru Technological University, 28-30 June, 2013, **Anantapur (Hyderabad)**.
28. 42<sup>nd</sup> Annual Convention: South Indian Sugarcane & Sugar technologist's Association held at **Chennai**, July 26-27, 2009.
29. UGC sponsored National seminar on "Environmental pollution: A threat to global life" held on 3-3-2014 organized by DVS College of arts and science Shimoga 577201 Karnataka. (As resource person)
30. International Conference on Pure and Applied Chemistry, 23-27 June-2014, **Mauritius**.
31. 44<sup>th</sup> Annual Convention of SISSTA, July 25&26<sup>th</sup>, 2014, Vishakhapatnam, **Andra Pradesh**.

### **List of Papers / Posters Presented at National / International Conferences / Symposia**

- 1) Manganese (III) Oxidation of L- glutamine in Aqueous Sulfuric Acid, Acetic Acid, and Pyrophosphate Media: Kinetics and Mechanism. The 8th International Conference on Bioinorganic Chemistry, Yokohama, **JAPAN**, July 27-August 1, 1997. (Also published in J. Bioinorg. Chem., 67, 210, 1997).

- 2) Percentage of Crude fiber content in bagasse of different varieties of Sugar cane. 32<sup>nd</sup> Annual Convention: South Indian Sugarcane and Sugar Technologist's Association, held at **Hyderabad**, 22<sup>nd</sup> September, 2000.
- 3) Qualitative analysis of flocculants in clarification process by varying time & Performance of Internal Combustion Engine using ethanol – diesel blends. 33<sup>rd</sup> Annual Convention: south Indian Sugarcane and Sugar Technologist's Association, held at **Chennai**, 1<sup>st</sup> & 2<sup>nd</sup> October, 2001.
- 4) Occupational Hazards and health problems in sugar Industries. Two days national level seminar of Economics of health care services with reference to India and Karnataka, organized by D.O.S, in Economics, P.G. Centre, **Mandya**.
- 5) A study on blends of vegetable oil-ester-absolute alcohol-Diesel. National seminar Organized at D.O.S. in Environmental Science, Manasagangotri, **Mysore**, 2<sup>nd</sup> & 3<sup>rd</sup> March, 2001.
- 6) NMR analysis of ethyl ester – Diesel blends. One day Symposium held at **IISc, Bangalore**, 2<sup>nd</sup> may 2001.
- 7) Ecologically safe solution from sugar industry: Ethanol derivatives in Automobile fuels. 34<sup>th</sup> Annual Convention: South Indian Sugarcane & Sugar Technologist's Association held at **Bangalore**, 2002.
- 8) Impact of distillery spentwash on seed germination and growth of leaves vegetables: An Investigation. 38<sup>th</sup> Annual Conventions: South Indian Sugarcane & Sugar Technologist's Association held at **Chennai**, August, 2007.
- 9) Investigation of impact of irrigation of distillery spentwash on the growth, yield and nutrients of leafy vegetables in untreated and treated soil. 39<sup>th</sup> Annual Convention: South Indian Sugarcane & Sugar Technologist's Association held at **Hyderabad**, 2008.
- 10) Kinetics of L-methionine oxidation by manganese (III) in acetic acid solutions. 20th Annual Illinois Student Research Conference at NEIU, **Chicago**, IL, April 4, 2009.
- 11) Impact of distillery spentwash irrigation on the yields of some root vegetables in untreated and spentwash treated soil. 40<sup>th</sup> Annual Conventions: South Indian Sugarcane & Sugar Technologist's Association held at **Bangalore**, 31<sup>st</sup> July & 1<sup>st</sup> August, 2009. (**SISSTA Best paper award, 2009-SILVER MEDAL**)
- 12) Impact of distillery spentwash irrigation on the yields of pulses in untreated and spent wash treated soil. 2<sup>nd</sup> Biopesticide International conference (BIOCICION) held at Palayamkottai, **Tamil Nadu**, 26<sup>th</sup> to 28<sup>th</sup> November, 2009.
- 13) Manganese(III) Oxidation of L-Methionine in Aqueous Acetic Acid Medium: A Kinetic and Mechanistic Study. International conference on "Current Trends in Chemistry and Bio-Chemistry" held at Central College **Bangalore** on 18<sup>th</sup> & 19<sup>th</sup> December, 2009.
- 14) Ethyl ester of coconut oil-diesel blends as an alternate fuel for automobile vehicle. 4<sup>th</sup> International Congress of Chemistry and Environment, Ubon Ratchathani University, **Thailand**, 21<sup>st</sup> to 23<sup>rd</sup> January, 2010.

- 15) Impact of distillery spentwash irrigation on yields of top vegetables cultivated in untreated and spentwash treated soil. 4<sup>th</sup> International Congress of Chemistry and Environment, Ubon Ratchathani University, **Thailand**, 21<sup>st</sup> to 23<sup>rd</sup> January, 2010.
- 16) Studies on the influence of distillery spentwash irrigation on the nutrients of top vegetables (Creepers) in normal and spentwash treated soil, Two days National symposium on Frontier Areas in Chemical Science and Nanotechnology, DOS in Industrial Chemistry, Kuvempu University, **Shimoga**, 1<sup>st</sup> & 2<sup>nd</sup> May-2010.
- 17) Oxidation of L-Valine by Manganese (III) in pyrophosphate medium: A kinetic and mechanistic study, Two days National symposium on Frontier Areas in Chemical Science and Nanotechnology (NSFACNT-2010), DOS in Industrial Chemistry, Kuvempu University, **Shimoga**, 1<sup>st</sup> & 2<sup>nd</sup> May-2010.
- 18) Kinetics and mechanism of DL-Alanine by Manganese (III) in aqueous acetic acid medium, Two days National symposium on Frontier Areas in Chemical Science and Nanotechnology (NSFACNT-2010), DOS in Industrial Chemistry, Kuvempu University, **Shimoga**, 1<sup>st</sup> & 2<sup>nd</sup> May-2010.
- 19) Influence of Distillery Spentwash Irrigation on the nutrients of Banana (*Musa Paradisica*) and Papaya (*Carcia Papaya*) fruits, International conference on “Green Chemistry and Sustainable Environment (GCASE)-2010”, PG Department of Chemistry, Holy Cross College, Tiruchirappalli, **Tamil Nadu**, July 7<sup>th</sup> & 8<sup>th</sup> 2010.
- 20) Studies On the Impact of Irrigation of Distillery Spentwash on the Nutrients of Leafy Medicinal Plants, 9<sup>th</sup> joint convention of STAI & SISSTA, Chennai, **Tamil Nadu**, 19-21 Aug-2010.
- 21) Influence of Distillery Spentwash Irrigation on the Nutrients of Root Vegetables in Untreated and Spentwash Treated Soil, 9<sup>th</sup> joint convention of STAI & SISSTA, Chennai, **Tamil Nadu**, 19-21 Aug-2010.
- 22) Implication of distillery spentwash on the sustainability of common Carp (*Cyprinus carpio*) fishes, International conference on advanced oxidation processes, Kottayam, **Kerala**, Sep 18<sup>th</sup> to 21<sup>st</sup>, 2010.
- 23) **P-66**: Enhanced nutrients uptake of leafy medicinal plants irrigated by distillery spentwash in untreated and spentwash treated soil, International conference on Environmental challenges: A global concern, **Jalandhar**, Oct 15<sup>th</sup> & 16<sup>th</sup> 2010.
- 24) **SIV/O-22**: Impact of distillery spentwash irrigation on the yields of herbal medicinal plants in normal and spentwash treated soil, Fourth international conference on plants & environmental pollution, **Lucknow**, Dec 8<sup>th</sup> to 11<sup>th</sup> 2010.
- 25) **PP-22**: Extraction and analysis of an acid-base indicator from black gram husk, National conference on “Recent trends in Analytical techniques” DRM Science college, **Davangere**, Feb 19<sup>th</sup> 2011.
- 26) Nutritional additives of distillery spentwash on the production of Creeper medicinal plants in normal and spentwash treated soil, ICCE-2011, Port Dickson, **Mayaysia**, May 27-29, 2011.
- 27) Implication of distillery spentwash on the sustainability of Catla (*catla catla*) fished, ICCE-2011, Port Dickson, **Mayaysia**, May 27-29, 2011.
- 28) Electrospray mass spectrometry and one dimensional thin layer chromatographic analysis of sugars from Chikoo peels, National symposium on “Energy and Environment-ChemIgnite 2k11” held at



Department of Chemical Engineering, Manipal Institute of Technology, **Manipal** on 26<sup>th</sup> and 27<sup>th</sup> August 2011.

- 29) **P-37:** HPLC coupled LC/MS instrument and TLC analysis of water soluble sugars extracted from non-edible portion of ridge gourd (*Luffa acutangula*), International conference on membranes; Biological and Environmental applications (ICM-2011), Sept 16-19, 2011, Kottayam, **Kerala**.
- 30) **A2250:** Studies on the implication of distillery spent wash in the sustainability of tilapia fishes (*Oreochromis niloticus*). 3<sup>rd</sup> Biopesticide International conference (BIOCACION-2011) held at Palayamkottai, **Tamil Nadu**, 28<sup>th</sup> to 30<sup>th</sup> November, 2011.
- 31) **PP-223:** Oxidation of L-Valine by manganese (III) sulphate in sulphuric acid medium: Kinetics and mechanism, International conference synthetic and structural chemistry (ICSSC-2011), Dec 8-10, 2011, Mangalore Univeristy, **Mangalore**.
- 32) **LS-531:** Irrigational impact of distillery spentwash on the germination and growth of sesame (*Sesamu indicum*) seeds, 4<sup>th</sup> International congress of environmental research, held at SVNIT, **Surat** from Dec 15-17<sup>th</sup> 2011.
- 33) **ISCA-ISC-2011-4CS-09:** Carbohydrate extraction from sweet orange peels (*Citrus Sinensis L.*) and their identification via LC/MS and Thin layer chromatographic analysis, ISC-2011, SOUVENIR, Science and technology for sustainable development, **Indore**, MP, 24<sup>th</sup> – 25<sup>th</sup> Dec-2011.
- 34) **AO-37:** Extraction of sugars from black gram peels by application of the reversed-phase liquid chromatography systems and identifying by TLC and Mass analysis, 30<sup>th</sup> Annual conference of Indian council of Chemists Osmania University, **Hyderabad**, 28<sup>th</sup> – 30<sup>th</sup> Dec 2011.
- 35) **AP-12:** Irrigationsl impact of distilleri spentwash on the yield of sesame (*Sesamum Indicum*) oil seed, 30<sup>th</sup> Annual conference of Indian council of Chemists Osmania University, **Hyderabad**, 28<sup>th</sup> – 30<sup>th</sup> Dec 2011.
- 36) Distillery spent wash as an effective liquid fertilizer and alternate irrigation medium in floriculture, Sri Lanka-India conference on Agro Biotechnology for Sustainable Development (ABSD-2012), Colombo, **Sri Lanka**; 12-13<sup>th</sup> March 202.
- 37) ABC classification Frame work order Goods receipt and transaction codes for implementation of System Application Product (SAP) Materials Management (MM-Module) in Sugar Industry, The second International Conference on Engineering Technology and Management (ICETM), **Tirupati**, INDIA; 7-8, September 2012.
- 38) Implementation of system application product (sap) materials management (mm-module) in sugar industry for outline agreement, purchasing, release strategy and replenishment, 6<sup>th</sup> International Conference on Management and Behavioral Sciences (ICMBS-6), **Ahmadabad (Gujarat)**; 1-2 December-2012.
- 39) Conversion of Ragi husk(Polysacharides) to Reducing Sugars by Acid Hydrolysis and its Estimation by Different Standard Volumetric Methods, International conference on Spring World Congress on Engineering and Technology (SCET-2013) **Wuhan, China**; 31st May-2nd June, 2013.
- 40) Impact of Calcium and Magnesium ions in identification of Second generation offspring Gender in Rabbits. International conference on Emerging Trends in Chemical and Pharmaceutical Sciences,

Organized by Jawaharlal Nehru Technological University, **Anantapur (Hyderabad)**, 28-30 June, 2013.

- 41) Implementation of System Application Product (SAP) Materials Management (MM-Module) for Storing and Stacking of Sugar in the Godown in Sugar Industry. 42<sup>nd</sup> Annual Convention: South Indian Sugarcane & Sugar Technologist's Association held at **Chennai**, July 26-27, 2009.
- 42) Poster presentation: "Estimation of sugars by acid hydrolysis of Sunflower (*Helianthus annuus*) husk by standard methods "UGC sponsored National seminar on "Environmental pollution: A threat to global life" held on 03-03-2014 organized by DVS College of arts and science Shimoga.-577201 Karnataka.
- 43) Paper presentation: "Mixed variety of sugarcane cultivation for the effective cane yield" in the seminar Sustainable sugarcane development and emerging technology tools for higher sugarcane productivity jointly organized by SISTA and STAI on 01-03-2014.
- 44) Poster presentation: "Implication of distillery spentwash on the sustainability of Molly(Ornamental variety) fishes, International Conference on Pure and Applied Chemistry, 23-27 June-2014, **Mauritius**.
- 45) **O-6**: Synthesis and Conformational Analysis of 4-Bromophenacyl Benzoates, International conference on Pure and Applied Chemistry; Crystallizing Ideas: Role of Chemistry, University of Mauritius, **Mauritius**, during 23-27 June 2014.
- 46) Paper presentation: "Impact of distillery spentwash on the sustainability of swordtail (Ornamental variety) Fishes, 44<sup>th</sup> Annual Convention of SISSTA, **Vishakhapatnam**, July 25&26<sup>th</sup>, 2014.

### **Refresher course / Orientation course / Workshop attended**

- ❖ Workshop on low cost equipment for chemistry Education: held at Indian Institute of Science, **Bangalore**, 06-04-1990 to 10-06-1990.
- ❖ Orientation Course, Organized by Academic Staff College, University of **Hyderabad**, Oct – Nov 1990.
- ❖ Refresher Course, Organized by Academic Staff College, North Eastern hill University, Shillong, **Meghalaya**, 23-09-1991 to 12-10-1991.
- ❖ National Workshop on Radiochemistry, Application of Radioisotopes and Allied Topics, Mangalore University, **Mangalore**, 29-10-1992 to 18-11-1992.
- ❖ Refresher Course, Organized by Academic Staff College, University of Mysore, **Mysore**, 07-11-1994 to 03-12-1996.
- ❖ National Symposium on "New Strategies to fight Drug Resistance in Cancer Therapy, held at Adichunchanagiri institute of Medical Sciences" B.G.Nagar, 22-02-1996 to 24-02-1996.
- ❖ Workshop on Science Communication, organized by the Department of Industrial Chemistry & Chemistry, Kuvempu University, B.R.Project, **Shimoga**, 6<sup>th</sup> & 7<sup>th</sup> September 1997.

- ✧ National Workshop on Recent Trends in Micro – analytical Techniques; Application in Nuclear, Environmental and Applied Science, Organized by Dept. of Industrial Chemistry & Chemistry, Kuvempu University & Indian Society of Analytical Science, **Mumbai**, 10<sup>th</sup> to 13<sup>th</sup> Feb -1998.
- ✧ National Seminar on “Polymer Technology for Industry and Society” held on 7<sup>th</sup> & 8<sup>th</sup> Jan- 2000, Dept. of Studies in Industrial Chemistry & Chemistry, **Kuvempu University**.

## List of Research Publications

### 2014

174. **S. Chandraju**, R. Venkatesh and C.S. Chidan Kumar, Estimation of reducing sugar by acid hydrolysis of Cashewnut(*Anacardium occidentale* L) husk by standard methods(2014) **Int.J.Unipharm. Biosci.**, 3(6):1-6.
173. R. Venkatesh **S. Chandraju**, and C.S. Chidan Kumar, Quantitative Estimation of reducing sugar by acid hydrolysis of Ridgegourd(*Luffa accutangula*) peel,s by standard methods(2014) **Int.J.Unipharm. Biosci.**,3(6):69-77.
- 172.**S. Chandraju**, R. Venkatesh and C.S. Chidan Kumar, Novel Spectrophotometric Technique for the Estimation of Reducing Sugar from Papaya (*Carica papaya*) peels by (2014) **Int. J. Of Pharm. Bio med Sci. pp29-32**.
713. **S. Chandraju**, R. Venkatesh and C.S. Chidan Kumar, Estimation of reducing sugar by acid hydrolysis of Pumpkin (*Cucurbitaceae*) peels by standard methods.(2014)**Int. J. pharma.int, lif Sci., V2-(19):32-38**.
170. **S. Chandraju**, R. Venkatesh and C.S. Chidan Kumar, Estimation of reducing sugar by acid hydrolysis of Banana (*Musa Sapientum*) peels by standard methods.(2014)**Int. J. pharma.int. lif Sci., V2-(19):1-9**
169. **S. Chandraju**, L. Mohan Kumar and C. S. Chidan Kumar, Impact of distillery spentwash on the sustainability f swordtail(Ornamental variety) Fishes, *Sugar Journal*, 44,393-398, 2014.
168. **S. Chandraju**, C. S. Chidan Kumar. and Venkatesh R. Estimation of reducing sugrs by acid hydrolysis of Black Grape(*Vitis Vinifera-L*) peelws by standard methods, *J. Chem. Pharm . Res.*, 6(5):862-866,2014.
167. **S. Chandraju**, Venkatesh R. and C. S. Chidan Kumar. Estimation of reducing sugrs by hydrolysis of Green Cardamum(*Elettaria Cardamum*) husk by standard methods, *World J Pharm Sci*, 2(8):857- ,2014.
166. **S. Chandraju**, Venkatesh R. and C. S. Chidan Kumar. Estimation of reducing sugrs by acid hydrolysis of Bottle guard(*Labelaria Syperaria*) peels by standard methods, *Int.J.Curr.Res*.

165. C. S. Chidan Kumar, H. K. Fun, C. Parlak, L. Rhyman, P. Ramasami, M. Tursun, **S. Chandraju** and C. K. Quah, Synthesis, molecular structure, FT-IR, Raman, XRD and theoretical investigations of (2*E*)-1-(5-chlorothiophen-2-yl)-3-(naphthalene-2-yl)prop-2-en-1-one, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2014), 132C, 174-182. (IF = 1.977)
164. R. Venkatesh, **S. Chandraju** and C. S. Chidan Kumar, Estimation of reducing sugar by acid hydrolysis of pomegranate (*punica granatum*) peels by standard methods, World Journal of Pharmacy and Pharmaceutical Sciences, 3(3): 2222-2229, 2014.
163. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar  
Role of Sodium and Potassium Ions in Identification of Second Generation Offspring Gender in Rats, International Journal of Health Sciences & Research, 4(3), 2014.
162. C. Parlak, C. S. Chidan Kumar, H. K. Fun, G. Kesan, L. Rhyman, P. Ramasami, **S. Chandraju** and C. K. Quah, 4-Chloro-3-fluorobenzaldehyde: Experimental (XRD, FT-IR and Raman) and DFT studies, Journal of Fluorine Chemistry (2014), 163, 7-15. (IF = 1.939)
161. C. S. Chidan Kumar, C. Y. Panicker, H.-K. Fun, Y. Sheena Mary, B. Harikumar, **S. Chandraju**, C. K. Quah, C. W. Ooi, Molecular structure, FT-IR, first order hyperpolarizability, NBO analysis, HOMO and LUMO analysis of 2-(4-chlorophenyl)-2-oxoethyl 3-methylbenzoate by HF and density functional methods, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2014), 128C, 327-336. (IF = 1.977)
160. C. S. Chidan Kumar, H. K. Fun, M. Tursun, C. W. Ooi, **S. Chandraju**, C. K. Quah and C. Parlak, Experimental and theoretical FT-IR, Raman and XRD study of 2-acetyl-5-chlorothiophene, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2014), 127C, 67-73. (IF = 1.977)
159. C. S. Chidan Kumar, C. Y. Panicker, H.-K. Fun, Y. Sheena Mary, B. Harikumar, **S. Chandraju**, C. K. Quah, C. W. Ooi, FT-IR, molecular structure, first order hyperpolarizability, HOMO and LUMO analysis, MEP and NBO analysis of 2-(4-chlorophenyl)-2-oxoethyl 3-nitrobenzoate, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2014), 126C, 208-219. (IF = 1.977)
158. C. S. Chidan Kumar, T. S. Chia, **S. Chandraju**, C. W. Ooi, C. K. Quah and H. K. Fun. Synthesis, conformational studies and antioxidant evaluation of 2-(4-bromophenyl)-2-oxoethyl benzoates, Zeitschrift für Kristallographie – Crystalline Materials. 229(4), 328-342, 2014. (IF = 1.241)
157. C. S. Chidan Kumar, R. Mythily, R. Venkatachalapathy and **S. Chandraju**  
Bio-mimic conversion of Maida (polysaccharides) to reducing sugars by acid hydrolysis and its estimation using standard methods, IFRJ, 21(2), 523-526, 2014.

156. C. S. Chidan Kumar, H. K. Fun, M. Tursun, C. W. Ooi, **S. Chandraju**, C. K. Quah and C. Parlak, Synthesis, molecular structure, FT-IR and XRD investigations of 2-(4-Chlorophenyl)-2-oxoethyl 2-chlorobenzoate: A comparative DFT study, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (2014), 124C, 595-602. (IF = 1.977)
155. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar  
Impact of Sodium and Potassium Ions in Identification of Second Generation of Offspring Gender in Rabbits, *AJPCT*, 2(1), 024-032, 2014.
154. **S. Chandraju**, Venkatesh R. and C. S. Chidan Kumar. Novel spectrophotometric technique for the estimation of reducing sugar from orange peel (*Citrus Sinensis.L*), *International Journal of Recent Scientific Research*, 5(1), 57-59, 2014.
153. **S. Chandraju**, R. Venkatesh and C.S. Chidan Kumar, Estimation of reducing sugar by acid hydrolysis of Banana (*Musa Sapientum*) peels by standard methods.(2014)*Int. J. pharma.,int, lif Sci., V2-(19):1-9*.
152. **S. Chandraju**, R. Venkatesh and C.S. Chidan Kumar, Estimation of reducing sugar by acid hydrolysis of Pumpkin (*Cucurbitaceae*) peels by standard methods.(2014)*Int. J. pharma.,int, lif Sci., V2 (19):32-38*.
151. **S. Chandraju**, R. Venkatesh and C.S. Chidan Kumar, Novel Spectrophotometric Technique for the Estimation of Reducing Sugar from Papaya (*Carica papaya*) peels by (2014) *Int. J. Of Pharm. Bio med Sci. pp29-32*.
150. **S. Chandraju**, R. Venkatesh and C.S. Chidan Kumar, Estimation of reducing sugar by acid hydrolysis of cashewnut(*Anacardium occidentale L*) husk by standard methods(2014) *Int.J.Unipharm. Biosci., 3(6):1-6*.
149. R. Venkatesh **S. Chandraju**, and C.S. Chidan Kumar, Quantitative Estimation of reducing sugar by acid hydrolysis of Ridgegour(*Luffa accutangula*) peel,s by standard methods(2014) *Int.J.Unipharm. Biosci.,3(6):69-77*

## 2013

148. **S. Chandraju**, Venkatesh R. and C. S. Chidan Kumar. Estimation of sugars by acid hydrolysis of sorghum husk by standard methods, *J. Chem. Pharm. Res.*, 2013, 5(12):1272-1275.
147. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar  
Impact of Calcium and Magnesium Ions in Identification of Second Generation of Offspring Gender in Rats. *RJPBCS*, 397-404, 2013.
146. **S. Chandraju**, B. Raviprasad and C. S. Chidan Kumar

Implementation of System Application Product (SAP) Materials Management (MM-Module) for Storing and Stacking of Sugar in the Godown in Sugar Industry. *Sugar Journal*, 393-400, 2013.

145. **S. Chandraju**, Girijanagendraswamy, C. S. Chidan Kumar and S. S. Shree Harsha Kumar  
Irrigational Impact of Distillery Spentwash on the Nutrients of V-1 Mulberry (*Morus Alba*) Plants, *International journal of pharmaceutical and chemical sciences*, 2(3), 1505-1511, 2013.
144. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar and S. S. Shree Harsha Kumar  
Impact of Sodium and Potassium ions in identification of second generation of offspring gender in hamsters, *Journal der Pharmazie Forschung*, 1(1), 82-89, 2013.
143. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar  
Impact of sodium and potassium ions in identification of offspring gender in hamsters, *IJPSR*, 4(4), 1529-1533, 2013.
142. **S. Chandraju**, Girijanagendraswamy, C. S. Chidan Kumar and S. S. Shree Harsha Kumar  
Influence on the Overall Performance of the Mulberry Silkworm, *Bombyxmori* L. CSR2 X CSR4 Hybrid Cocoon Reared with V1 Mulberry Leaves Irrigated by Distillery spentwash, *RJPBCS*, 4(2), 299-304, 2013.
141. **S. Chandraju**, Girijanagendraswamy and C. S. Chidankumar  
Influence on the Overall Performance of the Mulberry Silkworm, *Bombyx mori* L. CSR18 X CSR19 Hybrid Cocoon Reared with M-5 and V-1 Mulberry Leaves Irrigated by Distillery spentwash, *The Journal of Bioprocess Technology. Photon 97* 183-188, 2013.
140. **S. Chandraju**, Girijanagendraswamy and C. S. Chidan Kumar  
Influence on the Overall Performance of the Mulberry Silkworm, *Bombyx mori* L. CSR-19 Cocoon Reared with V1 Mulberry Leaves Irrigated by Different Proportions of Spent Wash, *Nat Environ Pol Tech*, 12(1), 159-162, 2013
139. **S. Chandraju**, Siddappa, C. S. Chidan Kumar  
Studies on the Impact of Irrigation of Distillery Spent Wash on the Yield of Cotton (*Gossipium hirsutum*) and Groundnut (*Arachis hypogaea*) Oil Seed Plants, *Nat Environ Pol Tech*, 12(1), 143-146, 2013.
138. C. S. Chidan Kumar, S. Naveen, R. Venkatachalapathy, K. N. Anilraj and **S. Chandraju**  
Crystal and molecular structure studies of cinnarizinium dimaleate, *Der Pharma Chemica*, 5(1), 51-54, 2013.
137. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar  
Impact of Distillery Spent Wash Irrigation on Sprouting, Growth and Yield of Dahlia (*Asteraceae*) Flowering Plant, *Chem Sci Trans*, 2(2), 635-641, 2013.
136. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar  
Impact of sodium and potassium ions in identification of offspring gender in rabbits, *Int. J.*

*Biotechnol. Environ. Agric. Sci*, 1(1), 04-10, 2013.

135. **S. Chandraju**, Siddappa, C. S. Chidan Kumar and S. S. Shree Harsha Kumar  
Studies on the germination and growth of neem (*Azadirachta indica*) and honge (*Pongamia pinnata*) seeds irrigated by distillery spentwash, *IJPCBS* 2013, 3(1), 102-106.
134. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar  
Impact of calcium and magnesium ions in identification of offspring gender in rats, *IJPCBS* 2013, 3(1), 19-24.

## 2012

133. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar  
Impact of distillery spentwash irrigation on the yield of Jasmine (Oleaceae) flowering plant, *Current Botany*, 3(5): 19-22, 2012.
132. **S. Chandraju**, R. Mythily and C. S. Chidan Kumar  
Isolation of simple sugar from a hydro colloid: gum Arabic, *Recent Research in Science and Technology*, 4(11): 34-36, 2012.
131. **S. Chandraju**, Girijanagendraswamy and C. S. Chidan Kumar  
Yields of *Bombyx mori* L. Races Cocoons CSR2, CSR4 and CSR18 Reared Fed with M5 Variety of Mulberry Leaves Cultivated by Spentwash Irrigation, *Biosci. Biotech. Res. Asia*, 9(2), 869-872 (2012).
130. **S. Chandraju**, L. Mohan Kumar and C. S. Chidan Kumar  
Studies on the Implication of Distillery Spentwash on the Sustainability of Tilapia Fishes (*Oreochromis niloticus*), *Biosci. Biotech. Res. Asia*, 9(2), 795-800 (2012).
129. **S. Chandraju**, Siddappa, C. S. Chidan Kumar and S. S. Shree Harsha Kumar  
Irrigational impact of distillery spentwash on the yield of Sesame (*Sesamum Indicum*) and Jatropha (*Jatropha Curcas*) oil seeds, *International Journal of Recent Scientific Research*, 3(12), 1046-1049, 2012.
128. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Utilization of mango peels (*Mangifera indica*) for the extraction of sugars, *Der Pharma Chemica*, 2012, 4(6):2422-2426.
127. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Advanced chromatographic techniques for the analysis of sugars extracted from sweet lemon peels, *Int. J. Chem. Sci*, 10(4), 1991-1998, 2012.
126. **S. Chandraju**, Siddappa, C. S. Chidan Kumar and S. S. Shree Harsha Kumar

Irrigational Impact Of Distillery Spentwash On The Germination And Growth Of Jatropha (*Jatropha Curcas*) And Sunflower (*Helianthus Annuus*) Oil Seed Plants, *IOSR Journal of Pharmacy*, 2(6), 60-64, 2012.

125. C. S. Chidan Kumar, R. Mythily, **S. Chandraju** and R. Venkatachalapathi  
Analysis of Sugar Components Extracted from Pumpkin (*Cucurbita pepo*) Peels, *Research & Reviews: Journal of Food Science & Technology*, 1(3), 1-6, 2012.
124. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar  
Role of sodium and potassium ions in identification of offspring gender in rats, *IOSR Journal of Pharmacy*, 2(6), 54-59, 2012.
123. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar  
Impact of Distillery Spentwash Irrigation on Sprouting and Growth of *Anthurium* (Araceae) Flowering plant, *RJPBCS*, 3(4), 629-635, 2012.
122. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar  
Studies on the yields of Rose (ROSA) and Hibiscus (ROSAINENIS) flowers irrigated by distillery spent wash, *Int J Cur Res Rev*, 4(20), 26-32, 2012.
126. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Extraction and Mass characterization of sugars from Ash Gourd peels (*Benincasa Hispida*), *RASAYAN J. Chem.* 4(3), 280-285, 2012.
125. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar  
Impact of Distillery Spentwash Irrigation on the yields of Himalayan Balsam (Balsaminaceae) and Crossandra (Acanthaceae) Flowering Plants, *International Journal of Pharmaceutical and Chemical Sciences*, 1(4), 1439-1444, 2012.
124. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Studies on Sugars Extracted from Water Melon (*Citrullus lanatus*) Rind, A Remedy for Related Waste and Its Management, *International Journal of Chemical and Analytical Science*, 2012, 3(8), 1527-1529.
123. **S. Chandraju**, Girijanagendraswamy and C. S. Chidan Kumar  
Study parameters of CSR-2, CSR-2 x CSR-4 and CSR-4 coccons reared with M5 mulberry leaves irrigated by distillery spent wash, *International Journal of Pharmaceutical, Chemical and Biological Sciences*, 2(4), 595- 599, 2012.
122. **S. Chandraju**, C. Thejovathi and C. S. Chidan Kumar  
Experimental study on the reuse of distillery spent wash on sprouting, growth and yield of Nerium Oleander (Apocynaceae) flowering plant, *International Journal of Pharmaceutical, Chemical and Biological Sciences*, 2(4), 588- 594, 2012.
121. **S. Chandraju**, B. Raviprasad and C. S. Chidan Kumar



Implementation of System Application Product (SAP) materials management (MM-Module) for invoice verification, material group and material master record in sugar industry, 2(10), 572-582, 2012.

120. **S. Chandraju**, Girijanagendraswamy and C. S. Chidan Kumar  
Influence on the overall performance of the mulberry silkworms, bombyxmori I.CSR-18, CSR-19 and Kolar Gold cocoons reared with M5 mulberry leaves irrigated by distillery spentwash, IOSR Journal of Pharmacy, 2(5), 31-34, 2012.
119. **S. Chandraju**, Girijanagendraswamy and C. S. Chidan Kumar  
Influence on the overall performance of the mulberry silkworm *Bombyxmori L.* Kolargold cocoon reared with V1 mulberry leaves irrigated with distillery spent wash, *E3 Journal of Environmental Research and Management*, 3(4), 0138-0141, 2012.
118. **S. Chandraju**, B. Raviprasad and C. S. Chidan Kumar  
Implementation of System Application Product (SAP) Materials Management (MM-Module) for Material requirement planning (MRP) in Sugar Industry, *International Journal of Scientific and Research Publications*, 2(9), 2012.
117. **S. Chandraju**, B. Raviprasad and C. S. Chidan Kumar  
ABC classification Frame work order Goods receipt and transaction codes for implementation of System Application Product (SAP) Materials Management (MM-Module) in Sugar Industry, ICETM, 7-8, September 2012.
116. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Estimation of sugars by acid hydrolysis of paddy husk by standard methods, *J. Chem. Pharm. Res.*, 2012, 4(7):3588-3591.
115. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
A rapid and sensitive extraction of sugars from papaya peels (*Carica Papaya*), *Der Pharma Chemica*, 2012, 4 (4):1631-1636.
114. **S. Chandraju**, R. Mythily and C. S. Chidan Kumar  
Chromatographic analysis of sugars Present in non-edible rind portion of snake gourd (*Trichosanthes Kirilowii*), *Agriculture, Science and Engineering*, ICASE, 2012, 304-310.
113. C. S. Chidan Kumar, **S. Chandraju**, R. Mythily, Tarab Ahmad, N. M. Made Gowda  
Extraction of Sugars from Black Gram Peels by Reversed-Phase Liquid Chromatography Systems and Identification by TLC and Mass Analysis, *Advances in Analytical Chemistry*, 2012, 2(4): 32-36.
112. **S. Chandraju**, Siddappa and C. S. Chidan Kumar  
Irrigational Impact of Distillery Spentwash on the Yields of Mustard (*Brassica nigra*) and Castor (*Ricinus communis*) Oil Seed Plants, *Chem Sci Trans.*, 2012, 1(3), 566-571.
111. Y. Song, C. S. Chidan Kumar, M. Akkurt, **S. Chandraju** and H. Li

1-[(4-Chlorophenyl)(phenyl)methyl]piperazine-1,4-dium bis(trichloroacetate)-trichloroacetic acid (1/1). *Acta Cryst.* (2012). E68, o2695-o2696.

110. Y. Song, C. S. Chidan Kumar, **S. Chandraju**, S. Naveen and H. Li, 4-[(4-Chlorophenyl)(phenyl)methyl]piperazin-1-ium picrate monohydrate, *Acta Cryst* (2012). E68, o2486.
109. **S. Chandraju**, C. Thejovathi and C. S. Chidan Kumar  
Studies of Distillery Spent Wash Irrigation on Germination and Growth of Chrysanthemum indicum and Polianthes tuberosa Flowering Plants, *Nat. Env. Poll. Tech*, 11 (2), 289-292, (2012).
108. **S. Chandraju**, C. Thejovathi and C. S. Chidan Kumar  
Distillery Spentwash as an Effective Liquid Fertilizer and Alternative Irrigation Medium in Floriculture, *Research in Plant Biology*, 2(3): 16-23, 2012.
107. **S. Chandraju**, Girijanagendraswamy and C. S. Chidan Kumar  
Study of parameters of CSR-2 cocoon reared with V1 mulberry leaves irrigated by spentwash, *Research in Plant Biology*, 2(3): 01-03, 2012.
106. C. S. Chidan Kumar, **S. Chandraju**, Tarab Ahmad, R. Mythily and Netkal M. Made Gowda  
Extraction and Evaluation of a New Acid-Base Indicator From Black Gram Husk (*Vigna Mungo*), *Synth. & React.in Inorg. Met.-Org. & Nano-Met. Chem.* 42(4), 498– 501, (2012).
105. C. S. Chidan Kumar, **S. Chandraju**, and Netkal M. Made Gowda  
Oxidation of L-Valine by Manganese (III) in Pyrophosphate Medium: Kinetics and Mechanism, *American Journal of Organic Chemistry.*, 2012, 2(2): 21-25.
104. **S. Chandraju**, Girijanagendraswamy and C. S. Chidan Kumar  
Yields of *Bombyx mori* L. races cocoons CSR19, Kolar gold and CSR2xCSR4 reared fed with V1 variety of mulberry leaves cultivated by spentwash irrigation, *J. Chem. Pharm. Res.*, 2012, 4(3):1812-1814.
103. **S. Chandraju**, GirijaNagendraswamy, C. S. Chidan Kumar and R. Nagendra Swamy  
Studies on the yields of cocoons of CSR19, Kolar gold and CSR2xCSR4 reared fed with M5 variety of mulberry leaves cultivated by spentwash irrigation, *International Journal of Pharmaceutical and Biological Research*, 3(2), 38-40, 2012.
102. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Advanced Chromatographic Technique for the Analysis of Sugars Extracted from the Peels of Black Grape (*Vitis vinifera* L.), *Asian. J. Chem*, 24(5), 2170-2172; 2012.
101. **S. Chandraju**, R. Mythily and C. S. Chidan Kumar  
Qualitative chromatographic analysis of sugars present in non-edible rind portion of custard apple

(*Annona Squamosa. L*), *J. Chem. Pharm. Res.*, 2012, 4(2):1312-1318.

100. **S. Chandraju**, B. Raviprasad and C. S. Chidan Kumar  
Studies on the implementation of system application product (SAP) materials management (MM-Module) in sugar cane cultivation and harvesting, *Journal of Asian Research Consortium*, 2(3), 2012.
099. R. Mythily, C. S. Chidan Kumar and **S. Chandraju**  
Preparative HPLC Separation of Sugars extracted from non- edible portion of ridge gourd (*Luffa acutangula*) and their Identification by Mass and TLC analysis, *Int J Chem Res*, 3(1), 2012, 40-44.
098. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Commercial Production of Simple Sugars from Calabash peels (*Lagenaria siceraria*) and identification using sophisticated Liquid chromatography/Mass Spectrometry & Thin Layer Chromatographic analysis, *Int. J. ChemTech Res.* 2012, 4(1).
097. **S. Chandraju**, Ashraf Beirami, C. S. Chidan Kumar  
Effect of sodium and potassium ions in identification of baby gender in hamster, *Asian J Pharm Clin Res*, 5(1), 2012, 134-136.
096. **S. Chandraju**, Ashraf Beirami and C. S. Chidan Kumar  
Impact of calcium and magnesium ions in identification of offspring gender in high-Sugar rabbits, *J. Chem. Pharm. Res.*, 2012, 4(1):719-725.
095. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar  
Impact of Distillery Spentwash Irrigation on Sprouting and Growth of Himalayan Balsam (*Balsaminaceae*) and Crossandra (*Acanthaceae*) Flowering plants, *International Journal of Current Research and Review*, 4(1), 06-13, 2012.

## 2011

094. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Extraction of Carbohydrate from Sweet Orange Peels (*Citrus sinensis* L.) and their Identification via LC /MS & Thin Layer Chromatographic Analysis, *Biosci., Biotech. Res. Asia*, **8**(2), 709-715 (2011).
093. Tarab Ahmad, Bobilla Srihari, Bakheet Alresheedi, **Siddegowda Chandraju** and Netkal Made Gowda, Modeling of ibuprofen on reversed phase liquid chromatography: I. The effect of mobile phase composition, *International Journal of Applied Science and Technology*, 1(6); 2011.
092. **S. Chandraju**, Ashraf Beirami and C. S. Chidan Kumar  
Impact of Calcium and Magnesium Ions in Identification of Baby Gender in High-Sugar Hamsters, *J. Pharm. Sci. & Res.* 3(12), 2011, 1619-1624.
091. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Qualitative analysis of sugars present in non-edible rind portion of musk melon (*Cucumis Melo* L.)

via chromatographic technique, *International Journal of Current Research and Review*, 3(12), 201-206, 2011.

090. C. S. Chidan Kumar, **S. Chandraju**, and Netkal M. Made Gowda, Manganese(III) Oxidation of Alanine in Aqueous Ethanoic Acid Medium: A Kinetic and Mechanistic Study. *Synth. & React.in Inorg. Met.-Org. & Nano-Met. Chem.* 41: 1331–1337, (2011).
089. C. S. Chidan Kumar, R. Mythily and **S. Chandraju**  
Sugar analysis of Chikoo Peels (*Manilkara Zapota*) via on-line electrospray mass spectroscopy and one dimensional thin layer chromatography, *International journal current chemical sciences* : 1(1); 008-011, 2011.
088. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar  
Impact of Distillery Spentwash Irrigation on Sprouting and Growth of Tagetes (*Asteraceae*) Flowering plant, *Asian J. Research Chem.* 2011; 4(10): 1608-1611.
087. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar  
Impact of Distillery Spentwash Irrigation on Sprouting and Growth of Gardenia (*Rubiaceae*) Flowering plant, *J. Chem. Pharm. Res.*, 2011, 3(5): 376-381.
086. **S. Chandraju**, Ashraf Beirami and C. S. Chidan Kumar  
Role of sodium and potassium ions in identification of baby gender in high-sugar mammals, *Int J Pharm Pharm Sci*, 3(4), 303-306. 2011.
085. **S. Chandraju**, Siddappa and C. S. Chidankumar  
Studies on the Germination and Growth of Mustard (*Brasica nigra*) and Castor (*Ricinus communis*) seeds irrigated by Distillery Spentwash, *BioResearch Bulletin* (2011) 6: 378-384
084. **S. Chandraju**, Girijanagendraswamy, C. S. Chidan Kumar and R. Nagendraswamy.  
Studies on the impact of irrigation of distillery spentwash on the yields of *S-30*, *S-36* and *Vishwa (DD)* mulberry plants. *Internat. J. agric. Sci.*, 7(2): 343-347. 2011.
083. **S. Chandraju**, C. Thejovathi, C. S. Chidan Kumar, L. Mohan Kumar, Siddappa and P. Bhuvan. Studies on the germination and growth of Zinnia (*Asteraceae*) and Vinca (*Apocynaceae*) seeds irrigated by distillery spentwash, *Sugar Journal.*, 15-20. 2011-40<sup>th</sup> convention of SISSTA.
082. **S. Chandraju**, R. Nagendraswamy and C. S. Chidan Kumar  
Studies on the Yields of Herbal Medicinal Plants Irrigated by Distillery Spentwash in Normal and Spentwash Treated Soil, *Biosciences, Biotechnology Research Asia*:8(1), 271-276; 2011.
081. **S. Chandraju**, R. Mythily and C. S. Chidan Kumar.  
Separation & identification of simple sugar metabolites from nonedible Pomegranate (*Punica granatum L.*) via TLC and on-line Electrospray Mass Spectrometry, *J. Chem. Pharm. Res.*, 3(4): 422-429. 2011.

080. **S. Chandraju**, R. Mythily and C. S. Chidan Kumar.  
Liquid – Liquid Extraction of Sugars from non edible pineapple (*Ananas comosus*) and analysis by sophisticated Liquid Chromatography/Mass Spectroscopy and Thin Layer Chromatographic Analysis, *Int J Cur Sci Res.* 1(3): 125-128. 2011.
079. **Chandraju S.**, Mohan Kumar L. and, Chidan Kumar C. S.  
Implication of Distillery Spentwash on the Sustainability of Catla (*catla catla*) Fishes, *Res. J. Chem. Environ*, 15(2): 804-806. 2011.
078. **Chandraju S.**, Nagendraswamy R., Chidankumar C. S. and Nagendraswamy Girija  
Nutritional Additives of Distillery Spentwash on the Production of Creeper Medicinal plants in Normal and Spentwash Treated Soil, *Res. J. Chem. Environ*, 15(2): 297-302. 2011.
077. **S. Chandraju**, Girijanagendraswamy and C. S. Chidankumar.  
Irrigational impact of distillery spentwash on the yields of Mysore local, M-5 and MR-2 mulberry plants, *Indian. J. Environ & Ecoplan*, 18(1), 55-62, 2011.
076. **S. Chandraju**, R. Mythily and C. S. Chidan Kumar  
Liquid Chromatography/Mass Spectroscopy and TLC Analysis for the Identification of Sugars Extracted from the Outer Skin of Almond Fruit (*Prunus dulcis*), *Rec Res Sci Tech*, 3(7), 58-62. 2011.
075. **S. Chandraju**, C. Thejovathi and C. S. Chidan Kumar  
Sprouting and Growth studies of Rose (*Rosa*) and Hibiscus (*Hibiscus rosasinensis*) lowering plants irrigated by distillery spentwash, *Research in Plant Biology*, 1(2), 06-13. 2011.
074. **S. Chandraju**, L. Mohan Kumar and C. S. Chidan Kumar  
Life Sustainability of Grass Carp (*Ctenopharyngodon idella*) Fishes on Implication of Distillery Spentwash, *Rec Res Sci Tech*, 3(7), 46-50. 2011.
073. **S. Chandraju**, R. Mythily and C. S. Chidan Kumar  
Extraction, Isolation and Identification of Sugars from Banana peels (*Musa Sapientum*) by HPLC coupled LC/MS instrument and TLC analysis, *J. Chem. Pharm. Res.*, 2011, 3(3):312-321.
072. **S. Chandraju**, Ashraf Beirami and C. S. Chidan Kumar.  
Effect of calcium and magnesium in identification of baby in highsugar mammals, *Research in Biotechnology*, 2(3):23-31. 2011.
071. **S. Chandraju**, R. Nagendraswamy, C. S. Chidankumar and Girijanagendraswamy.  
Influence of distillery spentwash irrigation on the yields of leafy medicinal plants in normal and spentwash treated soil. *Internat. J. agric. Sci.*, 7(1): 23-26, 2011.
070. **S. Chandraju**, Girijanagendraswamy, C. S. Chidan Kumar and R. Nagendraswamy.

Irrigational impact of distillery spentwash on the nutrients of *S-30, S-36 and Vishwa (DD)* mulberry ] (*Morus alba*) leaves. *Research in Plant Biology*, 1(1): 15-22, 2011.

- 069. S. Chandraju**, Siddappa and C. S. Chidankumar  
Studies on the Germination and Growth of Cotton and Groundnut Seeds Irrigated by Distillery Spentwash, *Curr Bot.*, 38-42, 2011.
- 068. S. Chandraju**, C. S. Chidankumar and R. Venkatachalapathy, Studies on the Impact of Distillery Spentwash Irrigation on the Yields of Tuber/Root Medicinal Plants in Normal And Spentwash Treated Soil, *Research Journal of Agricultural Sciences*, 2(2): 255-257, 2011.
- 067. S. Chandraju**, R. Nagendraswamy, C. S. Chidankumar and Girijanagendraswamy, Distillery Spentwash Irrigation on the Yields of Radish (*Raphanus sativus*), Onion (*Allium cepa*) and Garlic (*Allium sativum*), *Asian. J. Chem*, 23(4), 1585-1587, 2011.
- 066. S. Chandraju**, R. Nagendraswamy, Girijanagendraswamy and C. S. Chidankumar  
Impact of Irrigation of Distillery Spentwash on the Nutrients of Herbal Medicinal Plants, *Asian. J. Chem*, 23(3), 1198-1200, 2011.
- 065.** C. S. Chidan Kumar, **S. Chandraju**, R. Mythily and B. C. Channu  
Novel Spectrophotometric Technique for the Estimation of Reducing Sugars from Wheat Husk, *Inter. J. Rece. Sci. Res.*, 2(2), 50-53, 2011.
- 064. S. Chandraju** and C. S. Chidankumar  
Nutrients Uptake of Top Vegetables Irrigated By Distillery Spentwash in Normal and Spentwash Treated Soil, *Asian J. Research Chem.* 4(1): 75-79, 2011.
- 2010**
- 063. S. Chandraju**, R. Nagendraswamy, C. S. Chidankumar and Girija Nagendraswamy  
Influence of distillery spentwash irrigation on the yields of creeper medicinal plants in normal and spentwash treated soil, *Indian. J. Environ & Ecoplan*, 17(3), 545-550, 2010.
- 062. S. Chandraju**, R. Nagendraswamy, C. S. Chidankumar and Girijanagendraswamy  
Influence of Distillery Spentwash Irrigation on Nutrients of Ginger (*Zingiber officinale*) and Turmeric (*Curcuma longa*) Medicinal Plants in Normal and Spentwash Treated Soil, *Nat. Env. Poll. Tech*, 9 (4), 755-780, (2010).
- 061.** R. Nagendraswamy, **S. Chandraju**, Girijanagendraswamy and C. S. Chidankumar  
Studies on the Impact of Irrigation of Distillery Spentwash on the Yield of Leafy Medicinal Plants, *Nat. Env. Poll. Tech*, 9 (4), 743-748, (2010).
- 060. S. Chandraju** & C. S. Chidankumar  
Nutritional additives of distillery spentwash on the production of leafy medicinal plants in normal and spentwash treated soil, *J. Phytol*, 2(8), 52-60, 2010.

059. **Chandraju, S.**, Mohan kumar, L. & Chidankumar, C. S.  
Implication of Distillery Spentwash on the Sustainability of Common Carp (*cyprinus carpio*) Fishes, *Bioresearch Bulletin*, 3, 161-165, 2010.
058. **S. Chandraju**, R. Nagendraswamy, Girijanagendraswamy and C. S. Chidankumar  
Studies on the impact of irrigation of distillery spentwash on the yields of herbal medicinal Plants, *Medicinal Plants*, 2(3), 187-191, 2010.
057. **S. Chandraju** and C. S. Chidankumar  
Distillery Spentwash irrigation on the nutrients of Banana (*MUSA PARAISICA*) and Papaya (*CARCIA PAPAYA*) fruits, *J. Phytol*, 2010, 2(6): 28–33.
056. **S. Chandraju**, R. Nagendraswamy, Girijanagendraswamy and C. S. Chidankumar  
Studies on the impact of irrigation of distillery spentwash on the nutrients of tuber/root medicinal plants, *Indian. J. Environ & Ecoplan*, 17(1-2), 113-119, 2010.
055. **S. Chandraju**, C. S. Chidankumar and R. Venkatachalapathy, Irrigational Impact of Distillery Spentwash on the Growth, Yield and Nutrients of Leafy Vegetables, *Bioresearch Bulletin* (2010) 2: 83-90.
054. **S. Chandraju**, R. Nagendraswamy, C. S. Chidankumar and R. Venkatachalapathy,  
Nutritional Additives of Distillery Spentwash on the production of Radish (*Raphanous sativus*), Onion (*Allium cepa*) and Garlic (*Allium cepa*) Medicinal Plants in Normal and Spentwash Treated Soil, *Bioresearch Bulletin* (2010) 2: 59-65.
053. R. Nagendraswamy, **S. Chandraju**, Girijanagendraswamy and C. S. Chidankumar  
Studies on the impact of irrigation of distillery spentwash on the yields of tuber/root medicinal plants, *Biomed. & Pharmacol. J.*, 3(1), 99-105 (2010).
052. **S. Chandraju**, R. Nagendraswamy, C. S. Chidankumar and Girijanagendraswamy  
Influence of distillery spentwash irrigation on the nutrients uptake of herbal medicinal plants in normal and spentwash treated soil, *Biomed. & Pharmacol. J.*, 3(1), 55-61 (2010).
051. **S. Chandraju** and C. S. Chidankumar  
Influence of Distillery Spentwash Irrigation on the Nutrients of Root Vegetables in Untreated and Spentwash Treated Soil, *9<sup>th</sup> joint convention of STAI & SISSTA*, Gen & Co-product, 13-25, 2010.
050. **S. Chandraju**, R. Nagendraswamy, Girijanagendraswamy and C. S. Chidankumar  
Studies On the Impact of Irrigation of Distillery Spentwash on the Nutrients of Leafy Medicinal Plants, *9<sup>th</sup> joint convention of STAI & SISSTA*, Gen & Co-product, 3-12, 2010.
049. **S. Chandraju**, N. Nagendraswamy, Girijanagendraswamy and C. S. Chidankumar  
Studies on the impact of irrigation of distillery spentwash on the nutrients of creeper medicinal

Plants, *Internat. J. Agric. Sci*, 6(2), 615-619, (2010).

048. C. S. Chidankumar, **S. Chandraju**, Girijanagendraswamy and N. Nagendraswamy.  
Comparitive study on the growth and yield of leafy vegetables irrigated by distillery spentwash in normal and spentwash treated soil, *Sugar. Tech*, 12(1), 9-14. (2010).
047. **S. Chandraju**, N. Nagendraswamy, Girijanagendraswamy and C. S. Chidankumar  
Studies on the impact of irrigation of distillery spentwash on the yields of creeper medicinal plants, *Indian Sugar*, LX(5), 29-36. (2010).
046. **S. Chandraju**, R. Nagendraswamy, C. S. Chidankumar and Girijanagendraswamy  
Nutritional Additives of Distillery Spentwash on the Production of Creeper Medicinal plants in Normal and Spentwash Treated Soil, *Special Issue of Research Journal of Chemistry and Environment*, (ICCE-2009). 279-284, (2010).
045. Prathima, B. K., Chidankumar C. S. and **Chandraju, S.**  
Ethyl Ester of Coconut Oil - Diesel Blend as an Alternative Fuel for Automobile Vehicles, (2009).  
*Special Issue of Research Journal of Chemistry and Environment*, 116-126.
044. C. S. Chidankumar, **S. Chandraju**, Girijanagendraswamy and R. Nagendraswamy  
Nutritional additives of spentwash on pulses production, *Journal of Biopesticides* 3(1 Special issue), 51-54. (2010).
043. **S. Chandraju** and C. S. Chidankumar  
Studies on the influence of distillery spentwash irrigation on the nutrients of top vegetables (Creepers) in Normal and Spentwash treated soil, *Indian Sugar*, LX (1), 31-42 (2010).
042. **S. Chandraju** and C. S. Chidankumar  
Influence of distillery spentwash irrigation on the nutrients of fruits in untreated and spentwash treated soil. *Internat. J. Agric. Sci*, 6 (1), 238-242. (2010).

## 2009

041. **S. Chandraju** and C. S. Chidankumar  
Influence on the nutrients of condiments irrigated by distillery spentwash in untreated and spentwash treated soil. *Indian Sugar*, Vol No LIX (9), 43-52 (2009).
040. C. S. Chidan Kumar and **S. Chandraju**  
Study of fluoride content in drinking water of selected bore-wells in Mandya city of Karnataka, India. *Curr. World. Environ*, Vol.4, No. 2, 409-411 (2009).
039. C. S. Chidankumar, **S. Chandraju**, and Netkal M. Made Gowda  
Manganese (III) Oxidation of L-Methionine in Aqueous Acetic Acid Medium: A Kinetic and Mechanistic Study. *Synth. & React.in Inorg. Met.-Org. & Nano-Met. Chem.* 39:645-650, (2009).



- 038. S. Chandraju**, C. S. Chidankumar and R. Nagendraswamy  
Effect of distillery spentwash irrigation on the yields of some Root vegetables in Untreated and spentwash treated soil. *Sugar. J.* 233-236, (2009).
- 037.** H. C. Basavaraju, C. S. Chidankumar and **S. Chandraju**  
Impact of irrigation of distillery spentwash on the growth of Leafy Vegetables in Untreated and Treated Soil, *Internat. J. Agric. Sci*, 5 (1) 108-113, (2009).
- 036.** C. S. Chidankumar and **S. Chandraju**  
Impact of distillery spent wash irrigation on the yields of some condiments: An Investigation, *Sugar.Tech.* 11(3): 303-306, (2009).
- 035.** C. S. Chidankumar, **S. Chandraju** and R. Nagendraswamy  
Impact of irrigation of distillery spent wash on the yields of some top vegetables (Creepers): An Investigation, *World. Appl. Sci. Jour.* 6 (9), 1270-1273, (2009).
- 034.** C. S. Chidankumar and **S. Chandraju**  
Impact of distillery spent wash irrigation on the yields of some root vegetables, *Nat. Env. Poll. Tech*, 8 (3), 609-612, (2009).
- 033.** C. S. Chidankumar, **S. Chandraju** and R. Nagendraswamy  
Distillery spent wash: An effective eco-friendly irrigation medium. *Internat. J. Agric. Sci*, 5 (1), 11-14 (2009).
- 032.** **S. Chandraju**, H. C. Basavaraju and C. S. Chidankumar  
Impact of irrigation of Distillery spent wash on the nutrients of some fruits: An Investigation, *Nat. Env. Poll. Tech.* 8 (2) 301-306 (2009).

## 2008

- 031.** **S. Chandraju**, H. C. Basavaraju and C. S. Chidankumar  
Investigation of impact of irrigation of distillery spentwash on the nutrients of some condiments and root vegetables, *Chem & Environ. Res*, 17(3-4), 263-276. (2008).
- 030.** **S. Chandraju** and H. C. Basavaraju  
Investigation of impact of irrigation of distillery spentwash on the growth, yield and nutrients of leafy vegetables in untreated and treated soil, *Sugar journal (SISSTA)* 107-118, (2008).
- 029.** **S. Chandraju**, H. C. Basavaraju and C. S. Chidankumar  
Investigation of Impact of Irrigation of distillery spent wash on the nutrients of Pulses, *Asian. J. Chem*, 20 (8), 6342 – 6348, (2008).

028. **S. Chandraju** and H. C. Basavaraju  
Impact of distillery spent wash on the nutrients of Leaves vegetables: An Investigation, *Asian J. Chem*, 20 (7), 5301-5310 (2008).
027. C. S. Chidankumar and **S. Chandraju**  
Impact of distillery spent wash irrigation on the nutrients of pulses in untreated and Treated soil, *Sugar Tech*, 10 (4), 314-318. (2008).
026. C. S. Chidankumar, **S. Chandraju** and R. Nagendraswamy  
Impact of distillery spent wash irrigation on the yields of some fruits: An Investigation. *Indian. J. Environ & Ecoplan*, 15 (3), 629-634, (2008).
025. **S. Chandraju**, H. C. Basavaraju and C. S. Chidankumar  
Investigation of Impact of Distillery spent wash on the soil characteristics, *Nat. Env. Poll. Tech.* 7(4), 671-675, (2008).
024. H. C. Basavaraju and **S. Chandraju**  
Impact of distillery spentwash on the nutrients of top vegetables. *Internat. J. Agric. Sci*, 4(2), 691-696, (2008).
023. **S. Chandraju**, H. C. Basavaraju and C. S. Chidankumar  
Investigation of impact of irrigation of distillery spentwash on the nutrients of some top vegetables, *Indian sugar*, LVIII (3) 31-44, (2008).
022. **S. Chandraju**, H. C. Basavaraju and C. S. Chidankumar  
Investigation of Impact of irrigation of Distillery spent wash on the nutrients of Cabbage and Mint Leaf. *Indian sugar*, LVIII, (1) 19-28, (2008).
021. C. S. Chidankumar and **S. Chandraju**  
Impact of distillery spent wash irrigation on the yields of some top Vegetables: An investigation, *Curr. World Environ.* 3 (2), 251-256, (2008).

## 2007

020. **S. Chandraju** and H. C. Basavaraju Impact of distillery spentwash irrigation on seed germination and growth of leaves Vegetables: An investigation, *SISSTA*, 38, 30-50, (2007).

## 2004

019. **S. Chandraju** and B. K. Prathima  
Ethyl Ester of Honge Oil and palm oil blends with diesel as an eco – friendly fuel in heavy duty vehicles: An investigation, *Asian J. Chem.*, 16, (I) 147-155 (2004).

**018. S. Chandraju** and B. K. Prathima

Bio diesel of Ground nut oil: A safe alternate Fuel in the transport sector, *Asian J. Chem.*, 16, (3 & 4), 1811-1818, 2004.

**017. S. Chandraju**, B. K. Prathima and T. L. Raghavan

Ethanol derivatives of Hippe oil (*Madhuka indica*) and Sesame Oil blends with diesel as an eco-friendly fuel in Heavy duty vehicles: An investigation. *Indian Sugar LIV* (4) 253-263, (2004).

**016. S. Chandraju** and B. K. Prathima

Ethanol derivatives of Castor oil: A major feed stock for the production of bio-diesel, *SISSTA*, 29,189-199.(2004).

**015. S. Chandraju** and B. K. Prathima.

Ethyl ester of Soyabean and Sunflower oil blends with Diesel as an ecofriendly fuel in heavy-duty vehicles: An investigation. *Chem. & Environ. Res.*, 13, (3&4) 259-267, (2004).

## 2003

**014. S. Chandraju** and B. K. Prathima

Ethyl ester of Pongamia (*Honge*) Oil: Ecologically Safe Fuel, *Chem. & Environ. Res.*, 12, (3&4) 289-293 (2003).

## 2002

**013. S. Chandraju**, B. K. Prathima and K. M. Harinikumar

Ecologically Safe Solution from Sugar Industry: Ethanol derivatives in automobile fuel, *SISSTA*, 34 105- 108, (2002).

## 2001

**012. S. Chandraju**, Mahadevaiah and B. K. Prathima

Quantitative analysis of flocculants in clarification process by varying time, *SISSTA*, 33, 153-156, (2001).

**011. S. Chandraju**, B. K. Prathima and H. V. Ravindra

Performance of Internal combustion (IC) engine using ethanol-diesel blends: An Investigation, *SISSTA*, 33, 245-251, (2001).

## 2000

**010. S. Chandraju** and B. L. Jyothi

Percentage of Crude fiber content in bagasse of Different Varieties of Sugar cane: An investigation, *SISSTA*, 32, (2000).

## 1999

009. **S. Chandraju** and K. S. Rangappa  
Oxidation of some  $\alpha$ -amino acids by electrolytically generated Manganese (III) in aqueous sulphuric acid medium: A kinetic and mechanistic study, *Oxidation Communications*, 22(3), 448–457, (1999).

008. **S. Chandraju**, K. S. Rangappa and N. M. Made Gowda  
Manganese (III) oxidation of L-lysine in aqueous sulphuric acid medium: Kinetics and mechanism, *Int. J. Chem. Kinet.*, 31(8), 525, (1999).

### 1998

007. K. S. Rangappa, **S. Chandraju** and N. M. Made Gowda  
Manganese (III) Oxidation of L-Lysine and L- histidine in pyrophosphate medium: A kinetic and mechanistic study, *Synth. React. Inorg. & Met-org. Chem.*, 28(2), 275–294, (1998).

### 1997

006. N. M. Made Gowda, **S. Chandraju** and K. S. Rangappa.  
Manganese(III) oxidation of L-glutamine in aqueous sulfuric acid, acetic acid and pyrophosphate media: kinetics and mechanism, *J. Inorg & biochem.*, 210-210(1), (1997).

005. **S. Chandraju**, K. S. Rangappa, D. S. Mahadevappa and N. M. Made Gowda  
Manganese (III) oxidation of L-serine and DL-threonine in Aqueous acetic acid medium: kinetics and mechanism, *Synth. React. Inorg. Met-org Chem.*, 27(9), 1329 – 1346, (1997).

004. **S. Chandraju**, D. S. Mahadevappa and K. S. Rangappa  
Manganese (III) oxidation of some Neutral amino acids in pyrophosphate medium: A kinetic and mechanistic Study, *Indian .J. Chem*, 36 A, 947-980, (1997).

### 1996

003. K. S. Rangappa, **S. Chandraju** and D. S. Mahadevappa  
Kinetics of oxidation of L-lysine and L-phenyl alanine by anodically generated Manganese (III) in aqueous ethanoic acid, *Transition. Met, Chem.*, 21(6), 519-523, (1996).

002. **S. Chandraju**, K. S. Rangappa and D. S. Mahadevappa  
Anodically generated manganese (III) acetate for the oxidation of L-histidine in aqueous acetic acid: kinetic study, *Proc. Nat. Acad. Sci. INDIA*, 66 (A), III 235-246 (1996).

### 1994

001. **S. Chandraju**, B. S. Sherigara and N. M. Made Gowda  
Oxidation of Arginine by manganese (III) in pyrophosphate and acetate media: A kinetic study. *Int. J. Chem. Kinet.*, 26(11), 1105-1119, (1994).

\* \* \* \*