

# Curriculum Vitae

Dr. T. A. Sukantha  
Professor and Head  
Department of Chemistry  
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## Educational Qualifications:

Course	Name of the Institution / University	Year of Passing	% of Marks	Class
Ph.D.	Avinashilingam University for women, Coimbatore	2013	Highly commended	-
M.Phil.	Bharathiar University, Coimbatore	2005	61.6	First
M.Sc.	Annamalai University	1995	61.5	First
B.Sc	Bharathiar University, Coimbatore	1991	72	First

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## Teaching Experience

- **Lecturer and Head**, Sengunthar Arts and Science College, Tiruchengode, from 08.07.1996 to 11.09.2007.
- **Senior Lecturer**, K.S.Rangasamy college of Technology, Tiruchengode, from 13.09.2007 to 31.05.2010.
- **Assistant Professor**, K.S.Rangasamy college of Technology, Tiruchengode, from 01.06.2010 to 30.06.2011.
- **Associate Professor**, K.S.Rangasamy college of Technology, Tiruchengode, from 01.07.2011 to 31.05.2016.
- **Professor**, K.S.Rangasamy college of Technology, Tiruchengode, from 01.06.2016 to till date.

## Project:

### Post Graduate

**Title:** "Waste Management of sugarcane pressmud"

### M.Phil

**Thesis title:** "Kinetic investigation of alpha keto glutaric acid with chloramines -B"

### Ph.D

**Thesis title:** "Phytochemical and Pharmacological investigation of *Trianthema Decandra linn* roots and *Pithecellobium Dulce Benth* Fruit peel"

## Patent Filed

1. Title of the invention: *Extracts of Pithecellobium dulce (Benth) Fruit Peel and Use Thereof as Anti-Diabetic Formulation.* (IPR / Application No: 2844/CHE/2013 A).

## Research publications

1. **Sukantha, T. A.**, Shubashini K. Sripathi., Ravindran, N. T. and Balashanmugam. "Evaluation of *in vitro* antioxidant and antibacterial activity of *Pithecellobium dulce* benth fruit peel". International journal of current research, Vol. 3, Issue, 11, Year **2011**.
2. **Sukantha, T. A.**, Shubashini K. Sripathi., Ravindran, N. T. and Balashanmugam. "Antioxidant and Antibacterial activities of *Trianthema Decandra* Linn" International journal of pharmacy and pharmaceutical sciences, Volume 4, Issue.1, Year **2012**.
3. **Sukantha, TA**, Shubashini K. Sripathi and Ravindran, N.T."Antibacterial activity of selected medicinal plant in traditional treatment of wound infection in southeast india" International Journal of Pharmacy and Pharmaceutical Sciences. Vol 6, Issue 11, Year **2014**.
4. **Sukantha, TA**, and Shubashini K. Sripathi, "Isolation and characterization of secondary metabolites from *pithecellobium dulce* benth fruit peel" International Journal of Pharmacy and Pharmaceutical Sciences. Vol 7, Issue 11, Year **2015**.
5. **Sukantha, T. A.**, Shubashini K. Sripathi and Ravindran, N. T. "Anti-Diabetic Activity Of Aqueous Extract Of *Pithecellobium Dulce* Benth Fruit Peel On Streptozotocin Induced Diabetic Rats" Journal of Advances in chemistry. Volume 12, Year **2016**.
6. T.Natarajan N. Saravanan , P.S.Sampath , **TA Sukantha**. "Extraction and Characterization of New Cellulose Fiber from the Agrowaste of *Lagenaria Siceraria* (Bottle Guard) Plant" " Journal of Advances in chemistry. Volume 12, pp. 4382-4388 Year **2016**
7. S Gopinath, S Ambika, **TA Sukantha**, K Sivakumar, G Ramalingam. "Cation Distribution and Magnetic Property of  $\text{NiFe}_2\text{O}_4$  Nanorods" Advanced Science, Engineering and Medicine, Volume 9, pp.736-739, Year **2017**.
8. S Ambika, **TA Sukantha**, K Saravanan, S Gopinath, P Pachamuthu. "Structural, Optical and Catalytic Properties of  $\text{CoAl}_2\text{O}_4$  Toward Liquid Phase Oxidation of Benzyl Alcohol" " Advanced Science, Engineering and Medicine, Volume 9, pp.432-438, Year **2017**.

9. N. Saravanan , P.S.Sampath , **TA Sukantha**. “Surface modification of eco-friendly ligno-cellulosic fibre extracted from Lagenaria siceraria plant agro waste: a sustainable approach” *Int. J. Environment and Sustainable Development*, Vol. 17, No. 4, **2018**.
10. S.Ambika, S.Gopinath, K.Saravanan, K.Sivakumar, **T.A.Sukantha**, P. Paramasivan. “Preparation and Characterization of Nanocopper Ferrite and Its Green Catalytic Activity in Alcohol Oxidation Reaction” *Journal of Superconductivity and Novel Magnetism* 32(9):1-8, Year **2019**.
11. S.Ambika, S.Gopinath, K.Saravanan, K.Sivakumar, C.Ragupathi, **T.A.Sukantha**. Structural, morphological and optical properties and solar cell applications of thioglycolic routed nano cobalt oxide material” *Energy Reports* 5 pp 305-309 Year **2019**.
12. V.T. Geetha, G. Ramalingam, M.P. Pachamuthu, S. Gopinath, C. Ragupathi, **T.A. Sukantha** “Structure, Morphological, Magnetic, and Antibacterial Studies of Undoped and Ce/Mg-Doped NiO Nanoparticle Semiconductors Synthesized by Microwave Method” *Journal of Superconductivity and Novel Magnetism* **35**, pp 2021–2027 **2022**

#### **Papers / Posters presented in Conferences / Seminars / Symposia / Workshop**

1. Mohanaprakash .S, Rajasekaren. T, and **Sukantha.T.A**. Optimization of extraction of wax from sugar industry waste. National conference on Safety Environment and Industrial Applied Science & Technology (SEIAST 2015), organized by Anna University, Chennai, India, Feb’2015.
2. **Sukantha .T.A**. Asses the anti diabetic potential of Pithecellobium dulce (Benth) flower. National conference on “Advances in Drug Design, Discovery and Development” (NCADDD-2014), organized by Anna University, Tiruchirappalli, India, Jul’2014.
3. **Sukantha .T.A**, and Subashini, K.S. Free radical scavenging activity of methanolic and aqueous extracts of roots of *Trianthema decandra* Linn. International conference on “Natural products and Biotechnology” (ICNPBT-2011), organized by Annamalai University, Chidambaram, India, Jan’2011.
4. **Sukantha .T.A**, and Subashini, Hepatoprotective activity of methanolic and aqueous extracts of roots of *Trianthema decandra* Linn. International conference on “Gene Therapy and Phytotherapy in Modern Medicine”, organized by Adhiparasakthi College of Arts and Science, Kalavai, India, Jan’2011.
5. **Sukantha .T.A**. Role of Learners and Teachers of 21<sup>st</sup> Century. 13<sup>th</sup> ISTE Annual Convention on “Emerging Trends in Engineering Education – Indian Perspective”, organized by K.S. Rangasamy College of Technology, Tiruchengode, India, Oct’2010.

## **Conferences / Seminars / Symposia / Workshop attended**

1. Attended 5 days FDP on “Rural immersion camp” from 19.08.19 to 23.08.19 at KSRCT.
2. Attended 3 days FDP on “Student Induction Programme” from 27.05.2019 to 29.05.19 at PSG i-Tech Coimbatore
3. Attended 7 days FDP on “Student Induction Programme” from 17.06.2019 to 23.06.19 at PSG i-Tech Coimbatore
4. Participated in National conference on “Recent Trends in Mechatronics and Industrial Safety Engineering”, organized by K.S. Rangasamy College of Technology, Tiruchengode, India, Mar’2015.
5. Participated in National seminar on “Biodiversity Conservation: Status, Future and Way Forward”, organized by K.S. Rangasamy College of Technology, Tiruchengode, India, Jul’ 2014.
6. Participated in NPTEL workshop on “A Joy of Teaching”, organized by K.S. Rangasamy College of Technology, Tiruchengode, India, Aug’ 2014.
7. Participated in National seminar on “Recent Trends in Energy Conversion and Conservation”, organized by K.S. Rangasamy College of Engineering, Tiruchengode, India, Jan’2013.
8. Participated in Research Convention on “Research Ethics and Post Research Methods”, organized by Avinashilingam University, Coimbatore, India, Sep’2012.
9. Participated in Short course on “How to Develop and Troubleshoot GC and HPLC Methods”, organized by Indian Institute of Technology, India, Feb’2004.
10. Participated in National Symposium on “Current Scenario in Microbial Biotechnology”, organized by K.S. Rangasamy College of Technology, Tiruchengode, India, Feb’2008.
11. Participated in National seminar on “Recent Advances in Nano Science and Technology”, organized by Velammal College of Engineering and Technology, Madurai, India, Feb’2008.
12. Participated in Workshop on “Path Finder – Explore, Experiment, Elucidate Research: A Colloquium-2010”, organized by Avinashilingam University, Coimbatore, India, Dec’2010.
13. Participated in workshop on “Mission 10X”, organized by K.S. Rangasamy College of Technology, Tiruchengode, India, Feb’ 2011.

14. Participated in Short Term Training programme on “Collection, Treatment, Distribution / Reuse of Water and Wastewater”, organized by Indian Institute of Technology, India, Aug’2008.

### **Member Editorial and Reviewer in Scientific Communities**

1. American Research Journal of chemistry
2. Journal of Applied Pharmaceutical Science

### **Membership**

1. The International Society for Environmental Information Sciences (ISEIS)

### **Awards and Achievements**

1. Best Contingent Leader Award- National Integration Camp (NSS), Calicut, Kerala, India.
2. Editor in Asian books of Records and Indian book of Records 2021
3. Best faculty award in International Scientist Awards 2021 on Engineering, Science and Medicine 06&07 February 2021.

### **Book / Chapter Published**

1. Dr. T.A. Sukantha “Covid 19 and its impact” ISBN - 978-81-947019-4-1, ESN Publications.
2. Dr. T.A. Sukantha “Recent Trends on Multidisciplinary Research” ISBN - 978-93-90781-23-2, ESN Publications.
3. Dr. T.A. Sukantha “Applied Chemistry – Edition I” ISBN - 978-93-94899-31-5, Shanlax Publications.