Name : **Dr. S. Subramanian**

Designation : **Professor**

1. **Academic Qualification:**
    - Ph.D. - Anna University, 2005
    - M.Tech. Textile Engineering – Indian Institute of Technology, New Delhi, 1997
    - B.Tech. Textile Technology – PSG College of Technology, Coimbatore,1992

    Other Qualifications:

    - Postdoctoral Fellowship- Georgia Institute of Technology, Atlanta, USA
    - AMIE (Mechanical Engineering) and
    - MBA (Production and Operations Management)

2. **Experience: (27 years)**
    - Professor, Department of Textile Technology, Anna University to from Feb.2013
    - Associate Professor, Department of Textile Technology, Anna University – from July 2009 to Feb.2013
    - Assistant Professor, Department of Textile Technology, Anna University – from July 2006 to July 2009
    - Lecturer, Department of Textile Technology, Anna University – from August 2003 to July 2006
    - Teaching and Research Associate, Department of Textile Technology, Anna University – from February 2001 to August 2003
    - Assistant Manager (Manufacturing), Mafaltlal Industries Limited, Nadiad – from Jan 1998 to May 2000
    - Service Engineer, Voltas Ltd. – from August 1992 to July 1996

3. **Research:**

Area of interest: Yarn spinning, Medical Textiles, Management of spinning mill

Publication in indexed journals

Kubera Sampath Kumar S., Prakash C. and **Subramanian S.** (2021),' Study on Performance of Different Wound Dressings on Surgical Non Infected Wounds', Journal of natural fibers, Vol.18, pp. 161-174.

Kubera Sampath Kumar S., Prakash C., Vaidheeswaran S., Karthick Kumar B. and **Subramanian S**. (2020), 'Design and Characterization of Secondary and Tertiary Layers of a Multilayer Wound Dressing System', Vol.48 (4),pp. 2683-2698.

Muthumanickkam A., **Subramanian S**., Sathiyaraj M., Preethi P. and Ashwini M. (2020), 'Development of herb based (Nigella sativa) eri silk nanofibrous mat for biomedical applications', Materials today proceedings, Vol.22, Part3, pp.585-588

Alwar Ramaiyan Saravanan and **Sundaramoorthy Subramanian** (2018), 'Study on the Change in Characteristics of Ring Yarn during Post Spinning and Yarn Dyeing Operations', Fibres & Textiles in Eastern Europe, Vol. 129, pp. 35-39

Karthic K. Balan and **Subramanian Sundaramoorthy** (2018), 'Hydroentangled nonwoven eri silk fibroin scaffold for tissue engineering applications', Journal of Industrial Textiles, Vol.3. https://doi.org/10.1177/1528083718763779

Balan Karthic Kumar, Sivanesan Vaidheeswaran, Moorthy Nadiya, Budhhan Dineshraj, Jeyaseelan Shakila and **Sundaramoorthy Subramanian** (2016), 'Effect of thickness of mat and testing parameters on tensile strength variability of electrospun nanofibrous mat', Materials Today: Proceedings, Vol.3, pp. 1320-1329

Sekar K.S., Karthic Kumar Balan and **Subramanian Sundaramoorthy** (2016), 'Comparision of electro spun tassar silk fibroin-hydroxyapatite composite scaffold prepared by soaking and in-situ methods', Materials Today: Proceedings, Vol.3, pp. 1330-1337

Muthumanickkam Andiappan, TineshKumari, **Subramanian Sundaramoorthy**, Gowri Meiyazhagan, Prasath Manoharan and Ganesh Venkataraman (2016)' Comparison of eri and tasar silk fibroin scaffolds for biomedical applications', Progress in Biomaterials, pp.1-11

Kuberasampath kumar Shanmugam and **Subramanian Sundaramoorthy** (2015), 'Development and characterization of an electrospun mat from Eri silk fibroin and PLA blends for wound dressing application', RSC Advances, Vol. 5, pp.31352-31364

Subramanian S., Vaidheeswaran S., Pradeep S. and Uthaman P. (2015), 'Comparison of polyester-cotton blended yarns produced by blending of polyester with semi-combed and super-carded cotton fibres', Indian journal of fibre and textile research, Vol. 40, pp. 31-35

Subramaniyan Geethanjali, **Sundaramoorthy Subramanian** and Andiappan Muthumanickkam (2013), 'Ultraviolet protection property of mulberry fruit extract on cotton fabrics', Indian Journal of Fibre & Textile Research, Vol. 38, pp.420-423

Muthumanickkam Andiappan, **Subramanian Sundaramoorthy**, Niladrinath Panda, Gowri Mahizhappan, Sofi Beaula Winfred, Ganesh Venkatraman and Pramanik Krishna (2013), 'Electrospun eri silk fibroin scaffold coated with hydroxyapatite for bone tissue engineering applications', Progress in Biomaterials, DOI: 10.1186/2194-0517-2-6

Muthumanickkam Andiappan, **Subramanian Sundaramoorthy**, Gowri Mahizhappan, SofiBeaula Winfred and Ganesh Venkatraman (2013), 'Comparative study on eri silk and mulberry silk fibroin scaffolds for biomedical applications', Iranian Polymer Journal, Vol. 22 (3), pp.143-154

Muthumanickkam Andiappan, **Subramanian Sundaramoorthy**, Prasanna Vidyasekar, Natarajan Tiruppattur Srinivasan and Rama Shanker Verma (2013), ' Characterization of electrospun fibrous scaffold produced from Indian Eri silk fibroin', Int. J. Mater. Res., Vol.103, pp.1-9

Subramanian Sundaramoorthy, Palaniswamy K. Nallampalayam and Sundaresan Jayaraman (2011), 'Air permeability of multilayer woven fabrics', J Text Inst.Vol. 102, No. 3, pp.189–202

Muthumanikkam A.., Elankavi E., Gayathri R., KuberaSampathkumar S., Vijayakumar G Muthukumar K. and **Subramanian S**. (2010),'Tensile and In-vitro degradation study of electro spun fibrous mat produced from eri silk fibroin', Int. J Mat. Res., Vol. 101, pp.1548 – 1553.

Subramanian S., Karthikeyan P.S., Raghuramachandran M. and Velmurugan A. (2007), 'Variation in imperfections level due to winding of ring yarn', Indian J Fibre and Text Res., Vol. 32, pp. 290-294.

Subramanian S., Nainar M., and Palanimurugan M. (2007), 'Effect of jerky movement of ring rail on quality of ring yam', Indian J Fibre and Text Res., Vol. 32, pp. 248-250

Subramanian S. and Peer Mohamed A. (2006), 'Analysis of controlling force at double apron drafting system of ring frame', Indian J Fibre and Text Res., Vol. 31, pp. 529-536.

Subramanian S. and Peer Mohamed A. (2005), 'Studies on combed effect of heating of roving and space between the aprons of ring frame drafting system on yarn quality', Indian J Fibre and Text Res., Vol. No. 30, pp. 94 – 98.

Subramanian S. and Gobi N. (2004), 'Effect of process parameters at comber on yarn and fabric properties', Indian J. Fibre and Text. Res., Vol. No. 29, pp. 196 – 199.

Behera B.K., **Subramanian S**. and Ashish Garg (2001), 'Opto-electronic measurement of spinning tension', Indian J Fibre and Text Res, Vol. No. 26, pp. 403 – 408.

Publication in Book

Muthumanickkam Andiappan, **Subramanian Sundaramoorthy**, 'Studies on Indian eri silk electrospun fibroin scaffold for biomedical applications', Biomedical Applications of Natural Proteins, Springer, 2015, pp. 51-64

Papers published in National/International Conference

National: 06 International: 06

4. Funded Projects:

1. Measurement and control of spinning tension - AICTE
2. Development of aerosol filter using silica aerogel and textile composite – ARCI, Hyderabad
3. Development of nano material based multilayer wound dressing system - CSIR,

5. Recognition/Awards Received:

- Innovation award - Anna University, Chennai (2016)
- Best outgoing student award - PSG College of Technology(1992)
- Proficiency award - PSG College of Technology (1992)
- PRECITEX92 - Precitex Industries Ltd. (1992)

All India 6th rank in GATE1992 examination (97.6 percentile)

6. **Patents:**

Total number of patents awarded: 02

1. New method of production of compact yarn
2. Point fluted bottom rollers for roller drafting system of yarn spinning and preparatory machines

Total number of patents Published: 03

1. Modified cradle and nose bar for apron drafting system
2. Devices to reduce inter fibre friction in roller drafting system for yarn manufacture
3. Nanomaterial based multilayer wound dressing system

7. **Administrative Positions (University):**

- Chairperson, Faculty of Technology, Anna University – March 2020 to till date
- Head of the Department, Department of Textile Technology - May 2019 to October 2019
- Head of the Department in-charge, Department of Textile Technology - February 2015 to April 2019
- Deputy Director, Centre for Academic courses - June 2012 to January 2015
- Member of Board of studies, Academic Council, Governing council, Advisory board, Result Passing Board of Colleges affiliated to Anna University

Editor and Reviewer of journals