



## 1. PERSONAL DETAILS

Name: **NAVEEN VIJAY PADAKI**  
Present address (Office): Scientist, Central Silk Technological Research Institute  
Central Silk Board, Ministry of Textiles,  
Govt. of India, Bengaluru-560068, India.  
Telephone: +91 80 26282136 (Office)  
Email: naveenvpadaki@gmail.com  
Mobile No: +91-9880333002

## 2. ACADEMIC DEGREES

**Ph.D.** – Department of Textile Technology; Indian Institute of Technology-Delhi (IIT Delhi), 2010.  
**M.Tech;** Textile Technology; GSKSJT Institute, Visvesvaraya Technological University, 2001.  
**B.Tech.;** Textile Technology; GSKSJT Institute, Bangalore University, 1998.

## 3. PROFESSIONAL EXPERIENCE

Since December 2008: Scientist at Central Silk Technological Research Institute (CSTRI), Central Silk Board (Ministry of Textiles, Govt. of India), Bengaluru. Activities include Research, Training/Teaching and Administration. (10 Years)

August 2004 to December 2008: Research scholar (PhD student) under supervision of Prof. BL Deopura, Dr. R Algirusamy and Dr. Raul Fanguero, registered in Department of Textile Technology, Indian Institute of Technology, New Delhi (Entry No. 2004TTZ8101).

July 2005 – July 2006: Student Researcher under exchange program. Worked in Department of Textile Engineering, University of Minho, Portugal as a research fellow under Asia-Link project, research exchange program (Sponsored by European Union).

July 2004 – July 2005: Senior Research fellow in research project “Development of Low-Bulk Commingled Tow Prepregs for Thermoplastic Composite Applications” (sponsored by CSIR, India), under Dr. R Algirusamy, Department of Textile Technology, Indian Institute of Technology, New Delhi.

2004 May – July 2004: Contract research fellow in research project “Development of energy efficient textile machinery components using polymeric composite materials for mill and power loom sector” (sponsored by Ministry of Textiles, Govt. of India), Department of Textile Technology, Indian Institute of Technology, New Delhi.

2002 June-April 2004: Lecturer (fulltime guest faculty), Department of Apparel Technology & Management, Bangalore University, Bangalore.

1999 September-April 2004: Lecturer (part time) Govt. Sri Krishnarajendra Silver Jubilee Technological Institute (GSKSJT Institute), Bangalore.

2000 December –2002 May: Marketing and technical executive, biotech in textiles, Biocon India Limited, Bangalore

1999 January – 1999 June: Technical officer, composite textile mill, Gokak Mills Limited, Gokak (Belgaum dist).

1998 September – December: Graduate engineering trainee, garment company - Shahi Export House, Bangalore.

**4. RESEARCH PROJECTS UNDERTAKEN:**

- A. Electrospun silk fibroin nano-composite fibres for biomaterial applications (CYF 7074) Project Duration. Sept. 2015 – March 2019. Project Budget: 27.2 Lakhs (Funding Agency: Central Silk Board, Ministry of Textiles, Govt. of India).
- B. Design & Development of Silk Based Composite Materials for Biomaterial Applications (CYF 5060) June 2013 – Dec 2015. Project Budget: 10.5 Lakhs (Funding Agency: Central Silk Board, Ministry of Textiles, Govt. of India).
- C. Development of eri silk based facial masks for cosmetic applications (CYF 7067) Jan 2015 – Dec 2016. Project Budget: 7.5 Lakhs (Funding Agency: Central Silk Board, Ministry of Textiles, Govt. of India).
- D. Silk Carpets: Influence of knot structure on carpet properties: CYF 7070 Jan 2015 – Dec 2016. Project Budget: 27.2 Lakhs (Funding Agency: Central Silk Board, Ministry of Textiles, Govt. of India).
- E. Studies on Comfort Properties of Eri Silk & Wool Blended Fabric for Winter Wear Applications CYS 5057 Jan 2013-March 2015. Project Budget: 27.2 Lakhs (Funding Agency: Central Silk Board, Ministry of Textiles, Govt. of India).
- F. Studies on tasar cocoon cooking methods and development of cooking device CYR 7055 Dec 12 – Dec 14. Project Budget: 27.2 Lakhs (Funding Agency: Central Silk Board, Ministry of Textiles, Govt. of India).

**5. RESEARCH INTERESTS**

Silk Technology	Silk Based Biomaterials
Chemical Processing of Silk	Technical / Smart Textiles and Clothing.
Silk Fibroin & Silk Sericin	Textile Reinforced Composites.

**6. PUBLICATIONS:**

**Total : 63**

<b>Patents:</b>	<b>1 No.</b>	<b>Books / Book Chapters:</b>	<b>12</b>
<b>Journal Articles:</b>	<b>22</b>	<b>Conference Papers:</b>	<b>28</b>

## IMPORTANT PUBLICATIONS:

### A. BOOKS / BOOK CHAPTERS:

- **Naveen V Padaki**, Brojeswari Das and Arindam Basu: Chapter 1: *Advances in understanding the properties of silk*. “Advances in Silk Science and Technology”, Arindam Basu (Editor), Woodhead Publishers (Elsevier Science), Oxford, UK, 2015 (ISBN: 9781782423119).
- **Naveen V Padaki**, Brojeswari Das and Thirumalesh RM:: Chapter 6: *Enzyme applications in silk processing*. “Advances in Silk Science and Technology”, Arindam Basu (Editor), Woodhead Publishers (Elsevier Science), Oxford, UK, 2015 (ISBN: 9781782423119).
- UC Javali, **Naveen V Padaki**, B Das and KB Malali: Chapter 13: *Developments in the use of silk byproducts and silk waste*. “Advances in Silk Science and Technology”, Arindam Basu (Editor), Woodhead Publishers (Elsevier Science), Oxford, UK, 2015 (ISBN: 9781782423119).
- B Das, **Naveen V Padaki**, K Jaganathan and SV Naik: “Studies on comfort properties of eri silk and wool blended fabrics for winter wear applications”, CSTRI, Bengaluru, 2017.
- Radhalakshmi YC, SA Hipparagi, B Das, Sreenivasa and **Naveen V Padaki**, “Do’s & Don’ts for Processing of Silk” published in bilingual (Kannada-English & Hindi-English), CSTRI, Bengaluru, 2017.
- Uday Javali, Kiran B Malali and **Naveen V Padaki** (Editors), E-Book on “Proceedings of Workshop on “Recent advances in post cocoon technologies for tasar silk industry” held at Ranchi on 11th July 2012. CSTRI, Central Silk Board, Bangalore, India 2012.

### B. JOURNAL ARTICLES:

- UC Javali, Ramya HG, KB Malali, SV Naik, **Naveen V Padaki**, Studies on tasar cocoon cooking using permeation method. J. Institution of Engineers (India), Series E, 99(1), 55-62. 2018.
- Brojeswari Das, **Naveen V Padaki** and K Jaganathan, Studies on handle behaviour of eri silk / wool blended fabrics developed for winter wear application, Procedia Engineering 200 (2017) 53–60.
- Kiran B. Malali, Uday C. Javali, **Naveen V. Padaki** and Subhas V. Naik, (2017), Influence of slug catcher on quality of tasar silk yarn, Procedia Engineering 200 (2017) 33–38.
- **Naveen V Padaki** et.al., Studies on silk carpets prepared using eri noil yarn. Sericologia, 55 (2), 117 – 121: 2015.
- Brojeswari Das, **Naveen V Padaki** and K Jaganathan: Influence of enzymatic finishing on tasar silk fabrics, Sericologia, 55(3), 159-164, 2015.
- **Naveen V Padaki** et.al., ‘Studies on the influence of seasonal and regional aspects on the quality of muga silk’, Research Journal of Textiles & Apparels (RJTA), Vol. 18, No. 1, PP 25 – 30, 2014.
- **Naveen V Padaki**, AK Barman, B. Das, SN Mishra, S Deori and S Kumar, Traditional Textile designs and costumes of Assam, Textile Review, March 2013, Vol. 8 (3), ISSN 0974-2530, pp 14 – 19. 2013.
- Rajiv Munshi, **Naveen V Padaki**, D Chattopadhyay and SN Mishra, Mordanting Effect on Properties of Mulberry Silk Dyed with Selected Natural Dyes, Indian Silk, April 2011, Vol. 1(old 49), No. 12, PP 26-30. 2011.
- CM Bajpeyi, **Naveen V Padaki**, SN Mishra, Review of Silk Handloom Weaving in Assam, Textile Review, 29-32, Feb 2010.
- B. Das, **Naveen V Padaki**, S Das, Preparation and processing of muga silk, Tekstilna Industrija, ISSN No. 0040-2389, pp 12-20, September 2010. Journal Impact factor: 0.16
- **Naveen V Padaki**, BL Deopura, R Alagirusamy, R Fanguero, Influence of preform interlacement on the low velocity impact behaviour of multilayer textile composites, Journal of Industrial Textiles, Vol 40 (2), 171-185, 2010. Journal Impact factor: 1.09
- **Naveen V Padaki**, R Alagirusamy, BL Deopura, R Fanguero, Studies on preform properties of multilayer interlocked woven structures using fabric geometrical factors, Journal of Industrial Textiles, Vol 39 (4), 327-346, 2010. Journal Impact factor: 1.09
- MT Mathew, **Naveen V Padaki**, R Alagirusamy, BL Deopura, R Fanguero, LA Rocha, JR Gomes, Tribological behaviour of multilayered textile composites; The effect of reciprocating sliding frequency, Wear (ElsevierScencedirect), Vol 267, 26-33, 2009. Journal Impact factor: 2.07