1. Name: **Dr. Jagannath Sardar**

Designation: **Scientist-B**

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2. Educational Qualification: **Post Doc (Polymer Engineering, Tallinn University of Technology, Estonia), PhD (Mechanical Engineering, IIT Guwahati), M.Tech (Textile Engineering, IIT Delhi), B.Tech (Jute & Fibre Technology, University of Calcutta).**

3. Experience: **Four (04) years (in research and teaching), Two (02) years experience as Scientist-B at TTL Varanasi.**

4. Area of Research interest: **Coaxial Electrospinning of Silk fibroin for Industrial applications and Research and Development of Diversified Silk Materials.**

5. Ongoing research projects/ exploratory work:

6. No of publication: **Thirteen (13)**

7. Important recent publication:– Furnished below:

International Journal:

Sl. No.	Title of Paper	No. of co-authors	Name of the journal	Vol. & Year	Pages
1.	*Study of mechanical behavior of Kevlar/polypropylene hybrid yarns and their composites*	*Nil*	*Journal of Polymer Engineering*	*Vol. 31(2-3), 2011*	*279–282*
2.	*Processing, Fabrication and Investigation of Thermal Characteristics of Portland Pozzolanic Cement Filled Polypropylene Composites*	*1*	*International Journal of Plastic and Polymer Technology*	*Vol. 1(1), 2011*	*16-37*
3.	*Effect of Notches and Evaluation of Material Performance of a Cement Filled Composite Material for Fabrication of Nonmetallic Parts*	*1*	*International Journal of Advanced Mechanical Engineering*	*Vol. 4(5), 2014*	*481-486*
4.	*Development and fabrication of cement*	*1*	*Journal of*	*Vol. 34*	*775–786*

	reinforced polypropylene composite material spur gear		*Polymer Engineering*	*(8), 2014*	
5.	*A Stress Distribution Model along the Tooth Mating Surface of a Non-Metallic Spur Gear using the Hertz's*	*1*	*Trends in Machine design*	*Vol. 1(2), 2014*	*23-32*
6.	*Investigation and Evaluation of Wear Characteristics of A Nonmetallic Spur Gear*	*1*	*Trends in Machine design*	*Vol. 1(3), 2014*	*1-9*
7.	*Dynamic Performance Analysis of Non-metallic Spur Gear subjected to Variable Loads and Speeds*	*1*	*Trends in Machine design*	*Vol. 2(3), 2015*	*1-19*
8.	*Development of Metal-Skin Sandwich Panel of Cement Reinforced Polypropylene Composite as Hub Material*	*1*	*Trends in Machine design*	*Vol. 3(1), 2016*	*35-54*
9.	*Synthesis of Polymerizable Ionic Liquid Monomer and Its Characterizations*	*8*	*IOP Science: Conference Series:* Materials Science and Engineering	*Vol.* 111 (1) (2016)	*1-5*

Conference (National/International):

Sl. No.	Title of Paper	No. of co-authors	Name of the Conference	Place & Date	Pages
1.	*Fabrication and Evaluation of Damping Characteristics of Portland Cement Filled Thermoplastic Composites*	*1*	*3rd International and 24th All India Manufacturing Technology, Design and Research-AIMTDR-2010*	*13-15 Dec, 2010, Visakhapatnam, India*	*Vol. 2, 1095-1098*
2.	*Sound Absorption Characteristics of Various Nonwoven Textiles*	*2*	*24th Convention of Textile Engineers on Textile & Apparel Industry: Contemporary Issues to Address in Coming Years*	*19th & 20th Aug, 2011, Bangalore, India*	*Poster*
3.	*Studies on Effect of K/S value and UPF of Reactive Dyed Silk/Polyester Combined Fabric and Cotton Fabric*	*2*	*International Conference on TEXTILE AND CLOTHING, PRESENT AND FUTURE TRENDS (TCPFT-2017)*	*03-05 January, 2017, University of Calcutta, Kolkata*	*Oral Paper Presentation ISBN:978-93-84932-15-0, pp.100-104*

Book Chapter:

Sl. No.	Title	No. of co-authors	Publisher with Address	Year of Publication	Pages
1.	*Study on Filtration Characteristics of Nonwoven Textiles in Different Environmental Conditions, Renewable Energy Technology: Issues and Prospects*	*2*	*Excel India Publishers*	*2011 ISBN No. 978-93-80697-95-6,*	*126-130*