

## RESUME

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### Research Publications

S. No.	Publications
1.	Karishma M. Sakhare, Shashikant P. Borkar and Suraj R. Bamane, A comparative study of pine rosin and glutaraldehyde cross linker on mechanical properties of jute starch based biocomposites ; Advances in Materials Research, Vol 13 No.4, (2024), 269-283.
2.	Karishma M. Sakhare, Shashikant P. Borkar , Ravindra D. Kale, Fabrication and Characterization of Bio Composite Based on Jute Fiber and Pine Rosin Modified Potato Starch. Journal of Chemical Health Risks,(2023) 13(4s), 258-271.ISSN:2251-6727.
3.	Karishma M. Sakhare and Shashikant P. Borkar , Characterization of jute fibre reinforced pine rosin modified soy protein isolate green composites. Advances in Materials Research,Vol. 11, No. 3 (2022) 191-209 <a href="https://doi.org/10.12989/amr.2022.11.3.191">https://doi.org/10.12989/amr.2022.11.3.191</a> .
4.	Karishma M. Sakhare and Shashikant P. Borkar, Naveen Kumar Jha and Suraj R. Bamane, A Review On Mechanical Properties Of Green Composites, Journal of XI'AN University of architecture and technology, volume XIII, Issue 8, (2021) ISSN No : 1006-7930
5.	S. P. Borkar, Karishma Sakhare, Mechanical Properties of Green Composite: An overview, Journal of Xian University of Architecture & Technology, August 2021, Volume 13, Issue 8, Pages No: 123-131.
6.	S. P. Borkar and Nitin. T. Patil, Yarn Structure and its impact On Softness, Textile Times, June-July 2017, Vol. 12, page no. 04-07.
7.	S. P. Borkar and Nitin. T. Patil, S. Weidner-Bohnenberger, Impact on fabric hand on knitted fabric made of ring, rotor and air-jet yarn, Melliand International, Germany March 17, vol. 23, page no. 20-24.
8.	S. P. Borkar and Nitin. T. Patil, S. Weidner-Bohnenberger, Impact on fabric hand on knitted

	fabric made of ring, rotor and air-jet yarn, China Textile Leader, April 2017, vol. 04, page no. 61-65.
9.	Nitin. T. Patil, S. P. Borkar, Stephan Weidner-Bohnenberger, Marc Schnell, An Effect Of Spinning Process, Yarn Structure And Finishing Process On Knitted Fabric Hand Value, International Journal of Textile and Clothing Science, Volume: 01 Issue: 01, June-2017.
10.	Nitin. T. Patil, S. P. Borkar, Stephan Weidner-Bohnenberger and Marc Schnell, Impact On Rotor & Air-Jet Yarn Properties Due To Components And Parameter, Journal of Textile Association, Jan-Feb 2017, vol. 77, page no. 297-304.
11.	Nitin. T. Patil, S. P. Borkar, Stephan Weidner-Bohnenberger and Marc Schnell, Impact On Rotor & Air-Jet Yarn Properties Due To Components And Parameter, The Indian Textile Journal, Feb-2017, vol. 12, page no. 74-77.
12.	Nitin. T. Patil, S. P. Borkar, Stephan Weidner-Bohnenberger and Marc Schnell, Impact On Rotor & Air-Jet Yarn Properties Due To Components And Parameter, Textile Trend, Feb-2017, vol. 11, page no. 32-38.
13.	Aarti Baliga, Shashikant Borkar, A review of the 3D designing of scaffolds for tissue engineering with a focus on keratin protein, Journal of emerging technologies and Innovative research, October 2016, Volume 3, Issue 10, 90-95.
14.	Aarti Baliga, Shashikant Borkar, In vitro characterization of scaffolds for tissue engineering – A review, International journal of advanced engineering research and science, October 2016, Volume 3, Issue 10, 211-214.
15.	A. L. Bhongade, S. P. Borkar, P. Kale, Use of lignin as a compatibiliser in sunnhemp, jute reinforced with epoxy matrix composite, National Conference on Emerging trends in textile, fibre & apparel engineering, December 21 – 22 2013, Organized by Department of Textile Technology Government College of Engineering & Textile Technology, Berhampore, West Bengal.
16.	A. L. Bhongade, S. P. Borkar, Use of Lignin as a compatibiliser in Sunn hemp Fibre Reinforced Epoxy Composites, International Journal of Advanced Engineering Research and Science (IJAERS), Vol-3, Issue-10, Oct. 2016. PG. No. 36 – 39
17.	S.P.Borkar and Nitin. T. Patil, Yarn Structure and its impact On Softness, International Textile market, July-Aug(2014) 56-59.
18.	S.P.Borkar and Nitin. T. Patil, Yarn Structure and its impact On Softness, TECOYA TREND, VOL. XLV No.168, Mumbai. August (01,2014) 43-45.
19.	S.P.Borkar and Nitin. T. Patil, Yarn Structure and its impact On Softness, The Indian Textile Journal, September (2014) 40-44.
20.	S.P.Borkar and Nitin. T. Patil, Yarn Structure and its impact On Softness, Textile Trends, August (2014) 36-38.
21.	S.P.Borkar and Nitin. T. Patil, Yarn Structure and its impact On Softness, Asian Textile Journal, August (2014) 43-45.
22.	Surya Nath Chaudhary, Anand Krishna & S. P. Borkar, Textile Fibres in Space, Asian Textile Journal, , June 2013, p 57-63.

	Sunnhemp Fiber-Reinforced Waste Polyethylene Bag Composites, Surya Nath Chaudhary, S. P. Borkar & S. S. Mantha, Journal Of Reinforced Plastics And Composites, Vol. 29, No. 15, August 2010, Pp 2241- 2252.
24.	Developments in Protective Textiles , Surya Nath Chaudhary, Anand Krishna & S. P. Borkar, Asian Textile Journal, Vol.18, No.12, December 2009, p 37-43.
25.	Tensile and Impact properties of glass fibre reinforced waste mineral water bottles composites, Chaudhari S N, Borkar S P, Prakash Bhakat & Mantha S S, , Asian Textile Journal, Vol.18, No.9, September 2009, p 63-66.
26.	Composites from some Natural Fibres of India, S N Chaudhari, S P Borkar & S. S. Mantha, Man Made Textiles In India, Vol. LII No.7, July 2009, 233-240.
27.	Advanced Textile Materials In Healthcare , Chaudhari S N & Borkar S P, Asian Textile Journal, Vol.18, No.4, April 2009, p 40-48.
28.	Textiles for Extracorporeal Devices , Chaudhari S N & Borkar S P, The Indian Textile Journal, Vol. CXIX No.4, Jan 2009, p 79-84.
29.	Application of Technical Textiles in Environmental Protection , Chavan D A & Borkar S P, Journal of The Textile Association, Vol. 69, No.2, July-August 2008, p 75-81.
30.	Technical Textiles In Footwear , Chaudhari S N & Borkar S P, Asian Textile Journal, Vol.17, No.5, May 2008, p 21-28.
31.	Damage detection in composites , A. R. Sharma, S. P. Borkar, S. S. Mantha, Textile Asia, Vol. XXXVII No.6, June 2007, p 24-30.
32.	Innovations in Mesh for Hernia Repair , Bajirao Jagdale & S. P. Borkar, Man Made Textiles in India, May 2007,p 191-196
33.	Anti Bacterial & UV Protection finishes of Cotton Textiles by Metal & Metal-Oxide Nanoparticles, K. Parthsarathi, S. P. Borkar, Colourage, Vol.LIV no.7 July 2007, pp.43-45
34.	Functional Behaviour of Cotton Textiles Coated With NANO-TiO <sub>2</sub> , K Parthsarathi, S. P. Borkar, 4 <sup>th</sup> INDO-US Collaborative International Conference, ATNT-June 2007 ( Advances in Textiles, Machinery, Nonwoven and Technical Textiles.)
35.	Effects of silica & calcium carbonate fillers on properties of woven glass fibre composites, S. P. Borkar, V.Senthil Kumar & S. S. Mantha, Indian Journal of Fibre & Textile Research, Vol.32, June 2007, pp. 251-253
36.	BioComposites – A Review, Rahul Jain, S. P. Borkar & S. S. Mantha, A T J, May 2007, pp.81-86
37.	Textiles for Composites, S. P. Borkar & S. S. Mantha., Textile Excellence, Vol.4 No.21, May 2007, pp. 8
38.	Recycling of Plastics , Prakash Bhakat, S. P. Borkar & S. S. Mantha, Man Made Textiles of India, January 2007, pp.19-22
39.	Textiles for Composites, S. P. Borkar, S. S. Mantha, H.V.S. Murthy, National convention of Textile Engineers and seminar on High Performance Textiles, 4-5 Mar. 06
40.	Fibre Reinforced Composites for Passenger cars, S. P. Borkar & S. S. Mantha, Asian Textile Journal, Vol. 15, No 3, March 2006, p. 42-50.
41.	Natural Fiber composites for Automobiles, S. P. Borkar, S. S. Mantha, H.V.S. Murthy, 61 <sup>st</sup> All

	India Textile Conference, 7-8 Jan. '06
42.	Textured Yarn Defects – Causes & Remedies, H.V.S. Murthy, S. K. Sinha, R. R. Dabhade and S. P. Borkar, Paper presented in one day seminar by TAI on 17 <sup>th</sup> July 2004
43.	Emerging synthetic polymers in medical textiles and devices , V.D. Gotmare, S. P. Borkar and Rahul Asai, Man-made Textiles In India, July 2003, p. 264-271
44.	Production of Nylons, NCUTE-EXTENTION PROGRAMME on Man Made Fibres, Paper presentation, pages 212 – 218.-S. P. Borkar, 24th-25th March 2000, VJTI
45.	Seam Performance in Mens Wear, S. P. Borkar, Presented paper in The XIIIth National Convention of Textile Engineers, 1998, Solapur.-
46.	The Problems and prospect in Export Needs of Ready Made Garments ( RMG) with special refernce to Mumbai RMG Manufactures, H. V. S. Sreenivasamurthy, S. P. Borkar & R. T. Meshram, Journal of the Institution of Engineers ( India ); Vol. 78. October 1997, Page 34,-
47.	Seam Performance in shirting, Satish Bhalerao, A. S. Budke & S. P. Borkar, Cloths line, June/July 1997, p 69.
48.	Seam Performance in suitings, Satish Bhalerao, A. S. Budke & S. P. Borkar , The Indian Textile Journal, August, 97, p 78.
49.	Loom makers Need Level Playing Field, Cover Feature, S. P. Borkar & H. V. Sreenivasamurthy, Tecoya Technical Update, Vol. 6. No2, May 97,p 8-14
50.	Denim at a glance, S. P. Borkar, Tecoya Trends, Sunday November,17, 1996.p3
51.	The Problems of Prospects in export needs of Ready-made Garments (RMG) with special reference to Mumbai. RMG Manufactures, H.V.S. Sreenivasamurthy, S. P. Borkar & R. T. Meshram, XI National Convention of Textile Engineers, 1996, Banglore.

### Papers Presented in Conferences and Seminars

S. No.	Paper Presented
(1)	R. N. Turukmane, A. L. Bhongade, S. P. Borkar, Effect of alkali treatment on mechanical properties of untreated and treated sunnhemp fiber reinforced epoxy composites. National Conference on Emerging trends in textile, fibre & apparel engineering, December 21 – 22 2013, Organized by Department of Textile Technology Government College of Engineering & Textile Technology, Berhampore, West Bengal.
(2)	R. N. Turukmane, V. G. Nadiger, A. L. Bhongade, S. P. Borkar Studies on Treated Sunnhemp and Treated Jute fibre Reinforced Composites, International Journal of Advanced Engineering Research and Science (IJAERS), Vol-3, Issue-10, Oct. 2016. PG. No. 13 – 16
(3)	K Parthsarathi & S P Borkar, Functional Behaviour of Cotton Textiles Coated With NANO-TiO <sub>2</sub> “, 4 <sup>th</sup> INDO-US Collaborative International Conference, ATNT (Advances in Textiles, Machinery, Nonwoven and Technical Textiles.), Coimbatore, June, 2007.
(4)	S P Borkar, S S Mantha and H V S Murthy Textiles for Composites”, National convention of Textile Engineers and seminar on High Performance Textiles, Mumbai, March, 2006
(5)	S P Borkar, S S Mantha, H V S Murthy Natural Fiber composites for Automobiles, 61 <sup>st</sup> All India Textile Conference, Nagpur, January, 2006.
(6)	H V S Murthy, S K Sinha, R R Dabhade and S P Borkar, Textured Yarn Defects – Causes & Remedies, one day seminar by Textile Association of India, Daman, July, 2004.
(7)	S P Borkar, Seam Performance in Mens Wear, XIII National Convention of Textile Engineers, Solapur, 1998.
(8)	H V S Sreenivasamurthy, S P Borkar & R T Meshram, The Problems of Prospects in export needs of Ready-made Garments (RMG) with special reference to Mumbai. RMG Manufactures, XI National Convention of Textile Engineers, Bangalore, 1996.

### R& D Activity

(1)	Coordinator, AICTE (INDIA) Sponsored Project Under TAPTEC/1998-99 – “Optimisation of melt spinning and drawing processes in terms of polymer and filament variables” Funding of Rs. 15 Lakhs, Machine Procured - Pilot Melt Spinning Machine.
(2)	Department Coordinator, TEQIP Project - 2007, Funding Agency - World Bank, Funding of Rs. 21.5 lakhs, Machine Procured – Wide Width Tensile Testing Machine.

### Patents

(1)	A polymeric Composition for manufacture of Tapes, 672/Del/92, approved, . B. L. Deopura (IIT, Delhi) & S. P. Borkar
(2)	Designing of 3D wool fibre reinforced composite scaffolds for tissue engineering, Application Number: 3108/MUM/2014 Date of filing: 30/09/2014, Applicants: Aarti Baliga, Shashikant Borkar

**Contribution to Teaching/Academic Environment/ and Institutional Corporate Life.**

(1)	<b>Dean Administration, VJTI since 1<sup>st</sup> September 2016</b>
(2)	Chairman Scholarships, VJTI
(3)	Appellate Authority, VJTI
(4)	Former TEQIP II Coordinator, VJTI up to 22/10/2012
(5)	Former Head of Department, Textile Mfrs. Department, 2012.
(6)	Former Workshop Superintendent, Textile Manufactures Department, VJTI, 2003 - 2012
(7)	Former Convener, Undergraduate Academic Performance Evaluation Committee (UGAPEC)
(8)	In charge Head of Textile Manufactures Department, VJTI. (31/3/2006 to 10/7/2008).

**Interaction with outside world**

(1)	Deputed as Advisor – II at AICTE from 23/10/2012 to 10/8/2016., Bureau Head, RIFD Bureau, HQs AICTE, New Delhi <i>RIFD Bureau funds Research Projects for Engineering Institutes in the Country.</i>
(2)	Expert member on the Research and Recognition Committee for Ad-hoc Board of Studies in Textile Technology, University of Mumbai (INDIA) (1/9/2000 – 31/8/2004).
(3)	Member, The Board of Studies in Textile Technology, Amravati University (INDIA) (2002-2003).
(4)	Member, Ad-hoc Committee for the subject Bachelor of Printing Designing, Bachelor of fashion Designing, Bachelor of Textile Designing in the Faculty of Home Science, University of Nagpur(INDIA), since 02/11/2006.
(5)	Member of Geotextiles and Industrial Fabrics, Sectional Committee, TX-30, Bureau of Indian Standards (INDIA).
(6)	Presiding Officer, General Election to the Maharashtra Legislative Assemble in 26-Nagpada Assembly constituency - 13/10/2004.
(7)	Presiding Officer, General Election to the House of the People, 5-Mumbai South Central Parliamentary Constituency - 26/4/2004.

