Profile Page



Name : Dr A Chatterjee

Designation : Professor

Department : Textile Technology

Qualification : PhD (IIT Delhi)

M Tech (IIT Delhi)

PG Dip in Jute Tech (University of Calcutta)

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Research Interests:

Fibre reinforced Composite, Nanocomposite, Conductive Textiles, Fluid flow in fibrous assembly

Other Profile Links:

Google Scholar Link:

Dr. A. Chatterjee Click Here

Journal Publications:

Year	Journal	Publication
June	Indian Journal of Fibre & Textile	Vinit Kumar Jain & Arobindo Chatterjee: Influence of fibre type and
2021	Research Vol. 46, pp. 149-157	dipping cycle on graphene adsorption and electrical conductivity of fibres
2023	J. Inst. Eng. India Ser. E	Effect of Yarn Linear Density on Static and Dynamic Mechanical
		Properties of Jute Yarn Reinforced Epoxy Composites; Manu Aggarwal
		& Arobindo Chatterjee
2022	Journal of Natural Fibres	Vinit Kumar Jain and Arobindo Chatterjeee; Graphene Functionalized
		Cotton Nonwoven for Thermotherapy
2022	Journal of Vinyl and Additive	Arobindo Chatterjee, Harwinder Singh and Khushboo Chaudhary;
	Technology, 2022;1–7	Nonwoven viscose fabric-polyvinyl alcohol based flexible composite
2022	Indian Journal of Fibre & Textile	Manu Aggarwal & A Chatterjee, Alkali pre-treatment of jute yarns for
	Research Vol 47, September 2022,	reinforcement in epoxy composites
	pp. 309-317	
2021	AATCC Journal of Research,	Chatterjee, Arobindo; Jain, Vinit Kumar; Isothermal, Kinetic, and
	Volume 8, Number 5,	Thermodynamic Studies of Graphene Oxide Adsorption on Silk
	September/October 2021, pp.	
	18-29(12).	
2021	Indian Journal of Fibre & Textile	Harwinder Singh & Arobindo Chatterjee; Effect of filler loading and
	Research Vol. 46, September	orientation on alkali-treated cornhusk film reinforced epoxy laminate
	2021, pp. 275-286	composites
2021	Journal of Industrial Textiles	Vinit Kumar Jain and Arobindo Chatterjeee; Graphene coated cotton
		nonwoven for electroconductive and UV protection applications

2020	Cellulose; Volume 27 Number 5,	Harwinder Singh & Arobindo Chatterjee. Potential of alkali treated
	Page 2555-2567	cornhusk film as reinforcement for epoxy laminate composites
2020	Composites Communications	Arobindo Chatterjee , Sachin Kumar , Harwinder Singh; Tensile strength
		and thermal behavior of jute fibre reinforced polypropylene laminate
		composite
2020	J. Inst. Eng. India Ser. E.	Arpita Kothari, S. K. Sinha & Arobindo Chatterjee; Effects of Structural
		Modification and Some Parameters on Inverse Relaxation Behaviour of
		Polyvinyl Alcohol-Blended Polyester Yarn
2020	Cellulose Chem. Technol; 54	NASHRAH H. KIDWAI, HARWINDER SINGH and AROBINDO
	(7-8), 757-764	CHATTERJEE, All cellulose composite from cotton fabric and cellulose
		solution
2019	Journal of The Institution of	A Chatterjee, H Singh; Development and Characterization of Peanut
	Engineers (India): Series D. Page	Shell Flour–Polypropylene Composite
	1-7	and the contract of the contra
2017	The Journal of The Textile	Arobindo Chatterjee, M. Nivas Kumar & Subhankar Maity, Influence of
	Institute	graphene oxide concentration and dipping cycles on electrical
		conductivity of coated cotton textiles
2017	The Journal of The Textile	Harabansh Singh, Arunangshu Mukhopadhyay & Arobindo Chatterjee,
	Institute, 108:12, 2057-2066	Reliability analysis of seam joints in square plain parachute canopy fabric
2017	POLYMER COMPOSITES	Maity, Arobindo Chatterjee, Polypyrrole Functionalized Polyester
2017	TOETMEN COM OSTIES	Needlepunched Nonwoven Fabrics for Electro-Magnetic Interference
		Shielding
2017	Surface & Coatings Technology,	Arobindo Chatterjee, Subhankar Maity, A comparative study of reaction
2017	Volume 324, Pages 569-57	kinetics of in-situ chemical polymerization of polypyrrole onto various
	Volume 324, 1 ages 307-37	textile fibres
2017	Cellulose Chem. Technol., 51	HIMANSU SHEKHAR MOHAPATRA, PRIYANKA DUBEY,
2017	(7-8), 601-608	AROBINDO CHATTERJEE, PRAMOD KUMAR and SOURABH
	(7-8), 001-008	GHOSH, DEVELOPMENT OF A FIBROUS ASSEMBLY FROM
		ORANGE PEEL EXTRACT: CHARACTERIZATION AND
		ANTIBACTERIAL ACTIVITY
2016	Review of Scientific Instruments	Pratibha Singh, Arobindo Chatterjee, and Subrata Ghosh, Vertical
2010	87, 105114 (2016)	wicking tester for monitoring water transportation behavior in fibrous
	07, 103114 (2010)	assembly
2016	Journal of Industrial Textiles	Harabansh Singh, A Mukhopadhyay and A Chatterjee, Influence of bias
2010	Journal of Industrial Textiles	angle of stitching on tensile characteristics of lapped seam parachute
		canopy fabric – Part I: Mathematical modelling for determining test
		specimen size
2016	Journal of Industrial Textiles	A Mukhopadhyay, A Chatterjee and Harabansh Singh, Influence of bias
2010	Journal of Industrial Textiles	angle of stitching on tensile characteristics of lapped seam parachute
		canopy fabric – Part II: Study on optimized test specimen dimension
2015	International Journal of	Himansu Shekhar Mohapatra1, Arobindo Chatterjee and Pramod Kumar,
2013	Pharmacology, Phytochemistry	Characterization of Fibrous assembly from Lime Peel Extract,
	and Ethnomedicine Vol. 1, pp	Characterization of Piolous assembly from Linie Feel Extract,
	27-36	
2014	Journal of Textiles, Volume 2014,	Arobindo Chatterjee and Pratibha Singh, Studies on Wicking Behaviour
2014	Article ID 379731	of Polyester Fabric
2014	The Journal of The Textile	Subhankar Maity, Arobindo Chatterjee, Bhupinder Singh and Atinder Pal
2014	Institute	
2014		Singh, Polypyrrole based electro-conductive textiles for heat generation
2014	Journal of Applied Polymer	Urvashi Malhotra, Subhankar Maity, Arobindo Chatterjee
	Science	"Polypyrrole-Silk Electro-Conductive Composite Fabric by In Situ
		Chemical Polymerization

Conference Publications:

Year	Conference	Publication
2021	3rd international conference on Material Science &	Harwinder Singh & Arobindo Chatterjee,' Utilization
	Nanotechnology, 16-17 August 2021, held at Lisbon,	of Agrowaste as Reinforcement for Epoxy Laminate
	Portugal.	Composite
2021	2nd international conference on Sustainable growth	Harwinder Singh & Arobindo Chatterjee,' Cornhusk
	in Textiles,19-21 August 2021, held at UPTTI	reinforced green composite '
	Kanpur.	
2021	65th DAE Solid State Physics Symposium (December	Harwinder Singh & Arobindo Chatterjee,
	15 - 19, 2021), Organized by Bhabha Atomic	"Characterization of Interface of Corn-Husk Film
	Research Centre, Mumbai	Reinforced Composites"
2021	Sustainability in Technical Textiles (ICSTT 2021)	Manu Aggarwal and Arobindo Chatterjee; Influence
		of linear density on the alkali treatment of Jute yarn
		used as a reinforcement material for composites.
2019	2nd National Conference on Advances in Chemical &	Harwinder Singh & Dr. Arobindo Chatterjee,
	Environmental Engineerin- ACEE 2019	'Dynamic Mechanical properties of Peanut Shell
		Flour Polypropylene Composite'
2019	1st International conference on Material science and	Sachin Kumar & Arobindo Chatterjee,
	engineering (ICMSE)	"Characterisation of Jute fibre reinforced PP
	(composite"
2019	1st International conference on Material science and	Arobindo Chatterjee, Khushboo Chaudhary and Manu
	engineering (ICMSE)	Aggarwal, "Thermal and Mechanical Properties of
	engineering (remise)	Poly Vinyl Alcohol Film Using a Nonwoven Viscose
		Fabric
2018	19th ISME Conference on Advances in Mechanical	Harwinder Singh & Dr. Arobindo Chatterjee,
2010	Engineering	Potential of Peanut Shell Flour as filler for
	Lingincering	Polypropylene Composite
2016	International Conference on Redefining Textiles	Subhankar Maity and Arobindo Chatterjee,
2010	Cutting Edge Technology of the Future (RTCT 2016)	Adsorption of Polypyrrole onto Textile Surface at
	Cutting Eage Technology of the Future (RTCT 2010)	Liquid Solid Interface by In-Situ Polymerization
2015	International Conference on Advanced Materials for	Arobindo Chatterjee and Subhankar Maity,
2013	Power Engineering	Non-metallic/polymeric electro-conductive textiles for
	Tower Engineering	novel applications, International
2014	International Conference on Technical Textiles and	Singh K V P, Chatterjee A, Das A and Fangueiro R,
2014	Nonwovens	2014, IMPROVING FRICTION YARN QUALITIES
	Nonwovens	FOR ITS USE IN FOUNDATION GARMENTS
2014	Proc. of 5th International Conference on 3D Body	K.V.P. Singh, A. Chatterjee, A. Das and Raul
2014	Scanning Technologies, Lugano, Switzerland	Fangueiro "Anthropometric Study by Diagonising and
	Scanning Technologies, Lugano, Switzerland	Antagonizing the Feel Factor of 'Ideal Fabric' with
		'Reference Fabric' for Frugal Engineering of
2014	Letamatica al Confessor an Emercia a Tuenda in	Foundation Garments"
2014	International Conference on Emerging Trends in	S. Maity and A Chatterjee, Preparation and
2014	Traditional & Technical Textiles	characterization of electro-conductive textiles
2014	International Conference on Emerging Trends in	Arobindo Chatterjee, Himansu Shekhar Mohapatra
	Traditional & Technical Textiles	and Pramod Kumar, Development of Antioxidant
2012	ALVERTY 2012 C	Film from Orange Peels Extract
2013	AUTEX 2013 Conference	A. Chatterjee, Pratibha Singh "Studies on wicking
		behaviour of Polyester Fabric"
2010	AUTEX 2010 Conference	A. Chatterjee, MODIFICATION OF AS-SPUN PP
		BY VGCF FOR MAKING HIGH MODULUS FIBRE
2008	86th World Textile Conference (Textile Institute)	A. Chatterjee, Influence of process parameters on the
		properties of VGCF/PP composite filament

Book/Chapter Publications:

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Book Chapter	Lignocellulosic biowaste for composite applications	Woodhead Publishing. The Textile Institute Book Series	Harwinder Singh and Arobindo Chatterjee, Lignocellulosic biowaste for composite applications; Chapter 19, Functional and Technical Textiles, The Textile Institute Book Series, Edited by Subhankar Maity, Kunal Singha & Pintu Pandit.	978-0-323- 91593-9	2023
Conference	Zea Mays Husk Reinforced Epoxy	Springer	Singh H. and	978-981-1	2021
Procedings Book	Composites Advanced electromagnetic interference	Woodhead	Chatterjee A. Arobindo	5-9995-8	2020
Chapter	shielding textiles and clothing	Publishing	Chatterjee and Subhankar Maity; Advances in Functional and Protective Textiles, DOI: https://doi.org/10. 1016/B978-0-12- 820257-9.00018- 7; edited by SHAHID-UL-IS LAM & BHUPENDRA SINGH BUTOLA.		
Book Chapter	Filament formation and recent developments in Fibres to Smart Textiles: Advances in Manufacturing, Technologies, and Applications; edited by Asis Patnaik, Sweta Patnaik	CRC Press	Arobindo Chatterjee	ISBN 978113833 2515	2019
Book Chapter	Continuous Filament and Texturized Synthetic Yarns	CRC Press	Arobindo Chatterjee	978131515 6163	2018
Chapter Book Chapter	Electroconductive Textiles	Scrivener Publishing LLC	Arobindo Chatterjee and Subhankar Maity	ISBN:9781 119488101	2018

Book	Reinforcements and Composites with	Springer	Arobindo	2016
Chapter	Special Properties	Science+Busines	Chatterjee,	
		s Media	Subhankar Maity,	
		Singapore	Sohel Rana and	
			Raul Fangueiro	
Book	Process control in the manufacturing of	Woodhead	B. L. Deopura, A.	2013
Chapter	synthetic textile fibres	Publishing Series	Chatterjee, N. V.	
		in Textiles	Padaki	

Research Projects:

Role	Project	Title	Funding	From	То	Amount	Status	Co-Investi
	Type		Agency					gator
Principal	Sponsored	Optimisation	MHRD	14.01.04	18.08.10	22 lacs	Complete	
Investigator		of the					d	
		production						
		process of						
		PP/carbon						
		nanofibre						
		composite						
		filament						

Events Organized:

Category	Type	Title	Venue	From	To	Designation
Workshop	International	GIAN	NIT Jalandhar	14.01.19	18.01.19	Coordinator
Conference	International	International	NIT Jalandhar,	10.12.2007	12.12.2007	Secretary
		Conference on	India.			
		FUTURISTIC				
		TRENDS IN				
		TEXTILES				

PhD Supervised:

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Harwinder Singh	Development, Characterisation & Evaluation of	Completed	2022	
	Corn husk film Reinforced Epoxy Laminate			
	Composites.			
Vinit Jain	Graphene based conductive Textile	Thesis	2022	
		submitted		
Urvashi Malhotra	Graphene based textile	ongoing	2021	
Mr. Harbans	Seam characterisation of parachute canopy fabric	Completed	2018	Dr. A. Mukhopadhyay
Singh	as a function of seam angle			
Himansu Shekhar	Development and Characterization of Fibrous	Completed	2017	Dr. S. Ghosh and Dr. P.
Mohapatra	Assembly and Film From Citrus Peel Extract			Kumar
PRATIBHA	MOISTURE MANAGEMENT BEHAVIOR OF	Completed	2017	Dr. S. Ghosh
SINGH	WOVEN TOWEL MADE OF DREF III			
	FRICTION SPUN YARN			
Subhankar Maity	Influence of Textile Substrate Parameters on the	Completed	2016	
	Performance of Polypyrrole based			
	Electro-conductive Textiles			
Kanwar Varinder	Modification of Friction Spun Yarn Suitable for	Completed	2009	Prof. A. Das
Pal Singh	Apparel End Use			

Sujit Kumar	An Investigation on the Influence of Sheath on	Completed	2007	Prof. R. Chattopadhyay
Sinha	Friction Spun Yarn Properties and Spinning Limit			
Manu Aggarwal	Natural fibre reinforced composite	On going		