



DEPARTMENT OF TEXTILE ENGINEERING

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Detail of publication of faculty members in the academic year 2022-23, 2023-24, 2024-25

Name of Faculty Member	Year	Name of Journal/BOOK	Title
Priya Jaswal	2022	Journal of Industrial Textiles	Investigation on tensile strength characterisation of untreated and surface treated coir geotextiles
	2022	Journal of Industrial Textiles	Improvement in the performance of two layered model pavement with treated coir geotextile at the interface
	2023	International Journal of Pavement Research and Technology	Experimental study on monotonic behaviour of two layered unpaved road model reinforced with treated coir geotextiles
	2024	Smart and Sustainable Applications of Nanocomposites	Nanophotocatalyst-Infused Textile Composites for Environmental Remediation
	2024	International Journal of Pavement Research and Technology	Evaluation of Untreated and Treated Coir Geotextile Performance under Cyclic Loading on Unpaved Roads
	2024	Textile & Leather Review	A Review of Emerging Technologies and Future Fabrics for Extreme Cold
	2024	Journal of Engineered Fibers and Fabrics	Women's body armor: A comprehensive review of design, performance, and ergonomics
Amit Kumar	2024	Environmental Science and Pollution Research	CaCu ₃ Ti ₄ O ₁₂ nanoparticle-loaded cotton fabric for dual photocatalytic antibacterial and dye degradation applications
	2024	Environmental Research	Sonocatalytic induced dye degradation and antibacterial performance of SrTiO ₃ nanoparticles embedded cotton fabric
	2024	Smart and Sustainable Applications of Nanocomposites	Nanophotocatalyst-Infused Textile Composites for Environmental Remediation
	2024	Industrial Crops and Products	WS ₂ nanoparticles screen printed cotton for dual piezo-and photocatalytic antibacterial and dye degradation performance
	2023	Scientific Reports	Cotton functionalized with polyethylene glycol and graphene oxide for dual thermoregulating and UV-protection applications
	2022	Materials Chemistry and Physics	Screen printed calcium fluoride nanoparticles embedded antibacterial cotton fabric
	2022	Materials Chemistry and Physics	Durable antibacterial cotton fabric via spray-coating of photocatalytic MoS ₂

	2022	Journal of Natural Fibers	BaTiO ₃ nanoparticles embedded Antibacterial Cotton Fabric with UV Protection Characteristics
	2022	Journal of Alloys and Compounds	Poling effect on piezocatalytic antibacterial and dye degradation activities of BaTiO ₃ nanoparticles embedded cotton fabric
	2022	ACS Applied Engineering Materials	Durable Thermoregulating, Antibacterial, and UV Protective Smart Cotton Embedded with Polyethylene Glycol and BaTiO ₃
Vivek Sharma	2024	Indian Journal of Fibre and Textile Research	Application of chitosan encapsulated clove essential oil microcapsules on cotton fabrics for antibacterial finish.
Ankush Sharma	2024	Fibers and Polymers	Air Permeability Prediction of Herringbone Weave using Computational Fluid Dynamics and Finite Element Method
	2022	Textile & Leather Review	A study on fatigue behaviour of cotton/lycra core spun yarns
	2024	Textile & Leather Review	A Review of Emerging Technologies and Future Fabrics for Extreme Cold
	2024	Journal of Engineered Fibers and Fabrics	Women's body armor: A comprehensive review of design, performance, and ergonomics
Dinesh Bhatia	2024	New Research on Thermal Stresses	A Study of Jeffrey Nanofluid with Internal Heat Source in a Porous Medium: Exploring Realistic Thermal Convection
	2024	Journal of The Institution of Engineers (India): Series E	Modeling of Lycra/Cotton Core Spun Yarn for Strength and Elastic Recovery Using Adaptive Neuro-Fuzzy Inference System (ANFIS)
	2024	Fibers and Polymers	Air Permeability Prediction of Herringbone Weave using Computational Fluid Dynamics and Finite Element Method