

Profile Page



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Department : Textile Technology
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Research Interests :

Textile Waste Recycling, bio-based composite materials, Structural and energy absorbing composite materials, Textile waste based composite materials

Other Profile Links :

Google Scholar Link :

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Journal Publications :

Year	Journal	Publication
2022	Text Prog 2021;53:65–122.	Kamble Z, Behera BK. Upcycling textile wastes: challenges and innovations.
2022	Polym Compos 2022:1–8.	Behera BK, Kamble Z. Advanced 3D woven profile structures and their composites for automotive applications
2022	J Ind Text 2022;51:1701–15.	Kamble Z, Behera BK. A novel geometric model of four-directional 3D braided preforms.
2022	J Mater Sci 2022;57:17105–17138	Yadav S, Kamble Z, Behera BK. Advances in multifunctional textile structural power composites: A Review
2022	J Nat Fibers 2022:1–14.	Kamble Z, Behera BK. Mechanical and Thermogravimetric Properties of PP Based Thermoplastic Composites Reinforced with Cotton and Polyester Waste under Dry and Wet Conditions.

2022	J Ind Text 2022;51:2026S-2052S.	Kamble Z, Behera BK, Kimura T, Haruhiro I. Development and characterization of thermoset nanocomposites reinforced with cotton fibres recovered from textile waste.
2022	J Text Appar Technol Manag 2022;Special Is:1-13.	Omender, Kamble Z, Behera BK. Investigation of Role of Cell Geometry on Compression Behavior of 3-D Woven Hemp Honeycomb Composites.
2021	Compos Part B Eng 2021;207:1-10	Kamble Z, Behera BK, Mishra R, Behera PK. Influence of cellulosic and non-cellulosic particle fillers on mechanical, dynamic mechanical, and thermogravimetric properties of waste cotton fibre reinforced green composites
2021	Constr Build Mater 2021;284:122800.	Kamble Z, Behera BK. Sustainable hybrid composites reinforced with textile waste for construction and building applications
2021	Polymers (Basel) 2021;13:3535.	Kamble Z, Mishra RK, Behera BK, Tichý M, Kolář V, Müller M. Design, Development, and Characterization of Advanced Textile Structural Hollow Composites.
2021	Polym Compos 2021:1-13.	Kamble Z, Behera BK. Fabrication and performance evaluation of waste cotton and polyester fiber reinforced green composites for building and construction applications
2020	J Eng Fiber Fabr 2020;15:1-8.	Kamble Z, Behera BK. Mechanical properties and water absorption characteristics of composites reinforced with cotton fibres recovered from textile waste.

Conference Publications :

Year	Conference	Publication
2020	Kamble, Z., & Behera, B. K. (2020) Upcycling textile waste towards green nanocomposites, 3rd International Conference on Waste Management, IIT Guwahati, India.	
2019	Kamble, Z., & Behera, B. K., Mishra, R. (2019) Upcycling textile waste towards green nanocomposites. International Conference on Advances in Textile Materials and Processes, UPTTI, Kanpur, India.	
2019	Kamble, Z., & Behera, B. K. (2019) Upcycling textile waste into fibre reinforced composites. 47th Textile Research Symposium, Technical University of Liberec, Czech republic.	
2019	Behera, B. K., Kamble, Z. (2019) Upcycling textile waste towards a sustainable industry. 19th World Textile Conference-Autex 2019, Ghent University, Belgium.	
2018	Kamble, Z., & Behera, B. K., Kimura, T., Haruhiro I. (2018) Investigation on mechanical properties of thermoset composites reinforced with fibres recovered from textile waste and graphite oxide. International Conference on Advances in Textile Materials and Processes, UPTTI, Kanpur, India.	
2016	Kamble, Z., & Behera, B. K. (2016) Geometrical modelling of four directional 3D braided structures. 44th Textile Research Symposium, Indian Institute of Technology Delhi.	

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
	Upcycling Textile Waste to Fiber Reinforced Polymer Composites	Springer, Singapore	Kamble Z, Behera BK	978-981-16-4921-9	2022
	Upcycling Textile Waste Towards Green Nanocomposites	Springer International Publishing	Kamble Z, Behera BK	978-3-030-70463-6	2021

Professional Affiliations :

Designation	Organization
Life Member	FRP Institute Chennai