Subashini Balakrishnan

Lecturer (Unconfirmed)
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Google Scholar	**:** https://scholar.google.com/citations?hl=en&user=IuLRD3wAAAAJ
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Web of Science	**:**https://www.webofscience.com/wos/author/record/IVH-4373-2023

Profile:

B. Subashini holds the position of Lecturer in Textile and Apparel Technology within the Faculty of Engineering Technology at the Open University of Sri Lanka. With a Master of Philosophy (M.Phil.) degree in Textile and Clothing Technology from the University of Moratuwa, she stands as a highly accomplished professional in the field of textile and apparel technology. Prior to her master's, she completed a Bachelor of Industrial Studies Honors in Apparel Production Management from the Open University of Sri Lanka, specializing in apparel production management. Being a Fellowship (CText FTI) holder of the Textile Institute – UK, Subashini's professional background revolves around textile and apparel, with previous roles including Assistant Technologist at the Sri Lanka Institute of Textile and Apparel, as well as an Intern at Omega Line (Pvt) Ltd. She has been actively engaged in lecturing since 2013, demonstrating her dedication to both education and the advancement of textile knowledge. Beyond academia, Subashini has made significant contributions to the field through her published works in esteemed international journals. Her research involves fiber science, fabric treatment, and sustainable textiles, enriching the collective understanding of these subjects. She is actively involved in collaborative projects with government organizations, educational institutions, and industry

stakeholders and is committed to collaborating her expertise through consultancy services and training programs. Her main goal is to foster a positive learning environment and contribute to the advancement of textile and apparel technology.

Research and Teaching Interests

Textile Processing, Coloration, Printing, garment washing and finishing, Natural dyes and Finishing in Textile Technology, Fiber Science, Yarn Preparation and weaving Technology and Apparel merchandising, Environmental management, Colour psychology, laundry technology, Tools in textile education, Fashion manufacturing, Functional clothing product development, Ergonomics, Work Study for textile and Clothing Industry areas, Garment Manufacturing

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Affiliations

- CText FTI , Member of the Textile Institute, United Kingdom.
- Organization for Women in Science for the Developing World (OWSD)– Trieste, Italy
- Life Member of the Sri Lanka Association for the Advancement of Science (SLAAS) – Sri Lanka
- An associate member of the Sri Lanka Academy of Young Scientists (SLAYS) – Sri Lanka
- Young Scientists Forum (YSF) Full Membership -2022 – Sri Lanka
- National Science Foundation, Science & Technology Management Information System, Member, Sri Lanka

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Course Coordination:

TAI3332	Garment accessories
TAX4540	Garment manufacture
TAX6556	Ergonomics

Google scholar: (as @ 4th April 2024)

Citations: 69; h-index: 4; i10-index:2

RESEARCH & PUBLICATIONS

INTERNATIONAL JOURNALS: SCIENCE CITATION INDEX EXPANDED JOURNALS

Balakrishnan, S., Wickramasinghe, G., & Wijayapala, U. G. S. (2020). Physical and Chemical Characteristics of Mechanically Extracted Banana (MUSA) Fibers from Top Ten Sri Lankan

Cultivars. Journal of Natural Fibers, 19(10), 3851–3864. https://doi.org/10.1080/15440478.2020.1848732

Balakrishnan, S., Wickramasinghe, G., & Wijayapala, U. G. S. (2021). Investigation on mechanical and chemical properties of mechanically extracted banana fibre in pseudostem layers: From Sri Lankan banana (Musa) cultivation waste. Journal of Engineered Fibers and Fabrics, 16, 155892502110598. https://doi.org/10.1177/15589250211059832

Balakrishnan, S., Wickramasinghe, G., & Wijayapala, U. G. S. (2021). Eco-Friendly softening for banana Fibers from Sri Lankan banana cultivar: Influence on physical and chemical Properties on banana Fibers. Journal of Natural Fibers, 19(14), 9177–9189. https://doi.org/10.1080/15440478.2021.1982811

Balakrishnan, S., Wickramasinghe, G., & Wijayapala, U. S. (2019). Study on dyeing behavior of banana fiber with reactive dyes. Journal of Engineered Fibers and Fabrics, 14, 155892501988447. https://doi.org/10.1177/1558925019884478

Balakrishnan, S., Wickramasinghe, G., & Wijayapala, U. S. (2019). Investigation on improving banana fiber fineness for textile application. Textile Research Journal, 89(21–22), 4398–4409. https://doi.org/10.1177/0040517519835758

Balakrishnan, S., Wickramasinghe, G., & Wijayapala, U. S. (2020). A novel approach for banana (Musa) Pseudo-stem fibre grading Method: Extracted fibres from Sri Lankan Banana Cultivars. Journal of Engineered Fibers and Fabrics, 15, 155892502097176. https://doi.org/10.1177/1558925020971766

INTERNATIONAL CONFERENCES

Balakrishnan, S., Wickramasinghe, G., & Wijayapala, U. S. (2019). Influence of enzyme and chemical pretreatment processes on the colours of banana fibres. IEEE Conference Publication | IEEE Xplore. https://ieeexplore.ieee.org/abstract/document/8818786

LOCAL CONFERENCES

Balakrishnan, S., Wickramasinghe, G., & Wijayapala, U. S. (2021). Investigation of suitable methods to extract the fibres and optimization of treatment methods for Sri Lankan banana cultivars for textile material. http://dl.lib.uom.lk/handle/123/18638

Balakrishnan,S., Perera, M.E.R, , The effect of detergents on colour deterioration of white school uniform shirting materials used in Sri Lanka The Open University of Sri Lanka, Faculty of Engineering Technology, Research session, 2016, A503, https://ours.ou.ac.lk/wp-content/uploads/2017/04/A503-E.pdf

Balakrishnan, S., Perera, M.E.R, A Study on the Influence of washing and hot pressing on the colour fastness of white School uniform material. The Open University of Sri Lanka, Faculty of Engineering Technology, Research sessions -2015, Student Academic conference -2015 abstract No .TT206

Balakrishnan, S., Extraction of natural dyes from Basella alba (Sri Lankan green spinach) for Silk fabric: Mordant-free dyeing techniques towards Resource Efficiency, *1st Research symposium on Textile and Apparel Industry, Sri Lanka Institute of Textile and Apparel*, 2023

Balakrishnan, S., Wickramasinghe, G. L. D., Wijayapala, U.G.S, Banana Fiber Extraction and Treatment for Textile Production: A Sustainable Approach, *Cosmetic Textile and apparel, footwear, Leather and related wearable fashion accessories, pharmaceuticals, wellness products, nutraceuticals and related services and support system-based industry related research presentation and networking forum*, Ministry of Industries, 2023

Peer-Reviewed International Journal Articles

Liu, Y. (2023). Experimental investigation of the frictional behavior of single glass fiber filament. Journal of Engineered Fibers and Fabrics, 18, 15589250231220378.

Geng, Q., Zhou, C., Nie, K., Lv, W., Ben, H., Han, G., & Jiang, W. (2022). Relationship between fiber fineness and diameter of three bast fibers. Journal of Natural Fibers, 19(13), 5496-5503.

Assessing Cotton Fabric's Physical Characteristics Post-Treatment with Banana Pseudostem Sap: Suitability for Reactive Dyeing Applications - Journal of Testing and Evaluation: 2024

Jatkar, C., Dhabbe, R., Garadkar, K., Kupwade, R., Shen, J., Kumbhar, R., & Sabale, S. (2024). A sustainable approach for tailoring coir-fibre based bio-adsorbent and its composite for industrial applications. Biomass Conversion and Biorefinery, 1-13.: FEB: 2024

List of pending Monographs and Books

Book Name: Textiles of Sri Lanka

Eco-Friendly Dyeing Techniques for Banana Fibers from Banana application in the Sri Lankan context. Promoting Sustainable Coloration Methods**.** (Book chapter- Springer publication)

Book Name: Banana Fibres and their Composites: Processing, Design, Properties and Applications.

Anatomical Structure of Banana Fibres (Book chapter- Elsevier publication)