

Profile Page



Name : Dr Palaniswamy N. K.

Designation : Associate Professor

Department : Textile Technology

Qualification : Ph.D. Textile Technology (A C Tech, Anna University)
M.Tech. Textile Engineering (IIT, Delhi)
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Research Interests :

Yarn Engineering, Technical Textiles, Eco-friendly Textile Processing

Journal Publications :

Year	Journal	Publication
2021	Journal of Natural Fibers Volume 18, Issue 12, Pages 2270-2283.	S Kubera Sampath Kumar, C Prakash, P Ramesh, N Sukumar, J Balaji, N K Palaniswamy, "Study of Wound Dressing Material Coated with Natural Extracts of Calotropis Gigantea, Eucalyptus Globulus and Buds of Syzygium Aromaticum Solution Enhanced with rhEGF (REGEN-DTM 60)"
2021	Journal of Natural Fibers Volume 18, Issue 12, Pages 2302-2314.	S Kubera Sampath Kumar, C Prakash, P Ramesh, N Sukumar, N K Palaniswamy, "Study of Wound Dressing Material Coated With Natural Extracts of Leaf Solution Enhanced With Recombinant Human Epidermal Growth Factor (REGEN-DTM 150)"
2019	Fibers and Polymers	Kiday Fiseha, Dipayan Das, and Palaniswamy N. K., "Effect of Blend Ratio of Deep-Grooved Polyester/Cotton Fibers on Mechanical and Comfort Properties of Woven Fabrics"
2019	International Journal of Recent Technology and Engineering (IJRTE), Volume-8, Issue-2S11, p2949-2952	Shabrin Farhana.G, N.K.Palaniswamy, "Development of Diaper using Regenerated Carboxylated Cotton Fiber"
2017	Applied Mechanics & Materials, Vol. 867, p41-47.	Umachitra G., Palaniswamy N. K., Shanmugasundaram O. L. and Sampath P. S., "Effect of Mechanical Properties on Various Surface Treatment Processes of Banana/Cotton Woven Fabric Vinyl Ester Composite"

2017	Journal of Reinforced Plastics and Composites, Vol.36, No.3, p206-213.	Mohamed Zakriya, Ramakrishnan G., Gobi N., Palaniswamy N.K. and Srinivasan J., "Jute-reinforced non-woven composites as a thermal insulator and sound absorber–A review"
2017	International Research Journal of Pharmacy, Vol. 8, Issue 5, p95-100	P Ramesh, C Prakash, N Sukumar, N K Palaniswamy, S Sengottuvelu, EVALUATION OF ANTIBACTERIAL EFFICACY AND WOUND HEALING ACTIVITY OF NATURAL FIBRE BASED WOUND DRESSING COATED WITH NATURAL EXTRACTS OF CALOTROPIS GIGANTEAN, EUCALYPTUS GLOBULES AND BUDS OF SYZYGIIUM AROMATICUM ENHANCED WITH EPIDERMAL GROWTH FACTOR"
2017	Int. Res. J. Pharm., 2017, 8 (3), p50-55.	Ramesh P, Prakash C, Palaniswamy N K, Sukumar N and Sengottuvelu S, "DEVELOPMENT AND CHARACTERIZATION OF BAMBOO BASED WOUND DRESSING COATED WITH NATURAL EXTRACTS OF CURCUMIN, ALOE VERA AND CHITOSAN ENHANCED WITH RECOMBINANT HUMAN EPIDERMAL GROWTH FACTOR AND IN VIVO EVALUATION FOR WISTAR ALBINO WOUNDED RATS"
2014	Science International, Vol. 26, No.2	Edwin Sunder, Palaniswamy N.K. and Nalankilli G., "Protective finishes on cotton textiles using chitosan"
2014	Micro & Nano Letters, Vol.10, No.9, p717-720.	Nattanmi Raman Dhineshbabu, Palanisamy Manivasakan, Periasamy Prabu, Nallathambi Gobi, Palaniswamy N.K. and Venkatachalam Rajendran, "Development of functional hybrid cotton fabrics by coating with SiO ₂ and ZrO ₂ /SiO ₂ composites"
2014	Indian Journal of Fibre & Textile Research, Vol.39(4), p 418-424	Edwin Sunder A., Nalankilli G. and Palaniswamy N.K., "Multifunctional finishes on cotton textiles using combination of chitosan and polycarboxylic acids"
2011	The Journal of the Textile Institute, Vol.102, No.3, p189-202.	Subramanian Sundaramoorthy, Palaniswamy N.K. and Sundaresan Jayaraman, "Air permeability of multilayer woven fabric systems"
2007	Indian Journal of Fibre & Textile Research, Vol.32, No.2, p169-172.	Palaniswamy N.K., Shabeer Mohamed A. and William Robert P., "Balanced two-ply cotton rotor yarn"
2006	Autex Research Journal, Vol.6, No.2, p59-71	Palaniswamy N. K. and Peer Mohamed A., "Effect of single yarn twist and ply to single yarn twist ratio on abrasion resistance of two-ply cotton yarns"
2005	Indian Journal of Fibre & Textile Research, Vol.30(1), p32-36	Palaniswamy N. K. and Peer Mohamed A., "Balanced two-ply cotton yarn"
2005	Indian Journal of Fibre & Textile Research, Vol.30(3), p258-262	Palaniswamy N. K. and Peer Mohamed A., "Effect of single yarn twist, ply-to-singles twist ratio and tightness factor on spirality of single jersey cotton knitted fabrics"
2005	Journal of Applied polymer Science, Vol.98, p2245-2252	Palaniswamy N. K. and Peer Mohamed A., "Effect of single yarn twist and ply to single yarn twist ratio on strength and elongation of ply yarns"
2005	Journal of industrial textiles, Vol.35 (1), p63-76	Sakthivel J.C., Mukhopadhyay S. and Palaniswamy N.K., "Some studies on Mudar fibers"
2005	AUTEX Research Journal, Vol. 5(2), p87-90	Palaniswamy N.K. and Peer Mohamed A., "Yarn Twisting"

Conference Publications :

Year	Conference	Publication
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2016	International Conference on Redefining Textiles and Cutting Edge Technology 2016	Ramesh P, Palaniswamy N. K. and Sukumar Nachiappan, “Preparation and Characterization of Natural Fibre Based Wound Dressing Enhanced With Egf for Wound Healing Applications”, Organized by Dr. B R Ambedkar National Institute of Technology, Jalandhar on 8 – 10th April 2016
2014	International Conference on Technical Textiles and Nonwovens 2014	Ramesh P. and Palaniswamy N. K., “Functional properties of chitosan/rhegf/bamboo charcoal composites: development, characterization and evaluation of their antibacterial efficacy”, Organized by Indian Institute of Technology, Delhi (IIT-D), on 6th – 8th Nov 2014
2014	International Conference on Emerging Trends in Traditional and Technical Textiles	Ramesh P. and Palaniswamy N.K., “Preparation and characterization of bamboo fibre gel enhanced with egf for wound healing”, Organized by Dr. B R Ambedkar National Institute of Technology (NIT), Jalandhar on 11th -12th April 2014
2005	The Fibre Society Spring 2005	Sakthivel J.C., Karthikeyan N.D., Mukophadyay S. and Palaniswamy N. K., “Properties and spinnability of Mudar fibres”, The Fibre Society Spring 2005 conference held at Swiss Federal Institute for Materials Testing and Research (EMPA), St. Gallen, Switzerland on 25th and 27th May 2005

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Co-Principal Investigator	R&D	Maximising the yarn quality by structural modification during ply twisting	AICTE	2004	2005	950000	Completed	Dr. M. Madhusoot hanan
Principal Investigator	UGC Minor Project	Formaldehyde-free Easy Care Finishing of Cotton using Lipase mediated Esterification of Polycarboxylic Acids: an Eco-friendly Approach	UGC	2017	2018	290000	Surrendered	Dr. Balasubramanian

Events Organized :

Category	Type	Title	Venue	From	To	Designation
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Workshop	National	27th National Convention of Textile Engineers & National Seminar on “Design and Manufacture of Technical Textile Materials and Products”	K. S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu	20-02-2014	21-02-2014	Organizing Secretary
Workshop	National	Instrumentation in Textile Industry	A C College of Technology, Anna University, Chennai	04-07-2003	05-07-2003	Co-coordinator
Conference	National	Impact of Research and Development in Biotechnology for sustainable Textile Production	K S Rangasamy College of Technology, Tiruchengode	23-12-2014	24-12-2014	Convener