## **Indian Journal of Fibre & Textile Research**

www.niscair.res.in; http://nopr.niscair.res.in; http://op.niscair.res.in

VOLUME 44 CODEN: IJFRET	NUMBER 1 MAR ISSN: 0971-0426 (Print); 0975-1025	RCH 2019 5 (Online)
CONTENTS		
Role of fibre, yarn and fabric parameters Md Samsu Alam, Abhijit Majumdar o	s on bending and shear behaviour of plain woven fabrics & Anindya Ghosh	9
Application of RSM to optimise single locking cotton feeder for enhancing ginning efficiency of double roller gin V G Arude , S P Deshmukh , P G Patil & S K Shukla		16
regenerated cellulosic fibres	eed moisture management properties using cotton and va, Jagadananda Behera, Vijay Ramakrishnan,	24
Prediction of rotor-spun yarn quality using hybrid artificial neural network-fuzzy expert system model Hanen Ghanmi, Adel Ghith & Tarek Benameur		31
Compression characteristics of spunlace nonwoven fabric R K Jain, S K Sinha & A Das		39
Physicochemical characterization of natural hydroxyapatite/ cellulose composite Majed M Alghamdi, Nasser S Awwad, Abdullah A Al-Karim Al-Shara'ey, Hisham S M Abd-Rabboh & Sherif M A S Keshk		45
Elastic characteristics of hand-tufted carpets under compressive load Alok Daulta & Rajeev Varshney		51
Basalt hybrid woven textile materials for advanced thermal applications Hafsa Jamshaid, Rajesh Mishra, Jiri Militky & Sajid Hussain		56
Influence of tuck stitch in wale direction on thermal comfort characteristics of layered knitted fabrics P Senthilkumar & T Suganthi		65
Influence of weave structure on low-stress mechanical properties and total hand values of cotton fabric Tapas Ranjan Kar & Arvind Pandharpure		75

## 

Surface modification of cotton fabrics treated with organic-inorganic nanocomposites Christian Schramm	83
Prediction of braid pattern on mandrels with constant non-circular cross-sections J Hajrasouliha, R Jafari Nedoushan & M Sheikhzadeh	92
Studies on compatibility of selective direct dyes for dyeing of jute fabric Ashis Kumar Samanta, Nilendu Sekhar Bhaumik, Adwaita Konar & Alok Nath Roy	98
A water saving approach in textile finishing by reusing batch-washing wastewater Ahmet Çay, Serdin Çelik, Ayhan Yardım & Benhür Selışık	107
Mathematical modeling of absorption behavior of acid dye onto wool fibre using law of conservation of mass Ali Shams Nateri, Hamid Fattahi Juybari & Ahmad Hivechi	113
Short Communications	
Padding technique for natural dyeing Y M Indi, P D Patil & Tejas Jujare	118
Sea water for reactive dyeing of cotton fabrics G Devanand & M Parthiban	122