

# Contents

## 4 Abstracts in Polish

### GENERAL PROBLEMS OF THE FIBRE AND TEXTILE INDUSTRIES

#### 8 Going Green and Socially Responsible – Textile Industry in Transition to Sustainability and a Circular Economy

*I. Warwas, A. Podgórnjak-Krzykacz, J. Przywojska, L. Kozar*

### RESEARCH AND DEVELOPMENT

#### 19 Predicting the Relaxation Modulus for the Study of the Delayed Behaviour of Kenaf Fibres in Stress Relaxation

*Saïdjo, R. Ntenga, E. Mfoumou, T. Beda, A. Beakou*

#### 26 Investigation of Fibre Orientation and Void Content in Bagasse Fibre Composites Using an Image Analysis Technique

*S.H. Siddique, S. Faisal, Q. Mohtashim, M. Ali, R.H. Gong*

#### 33 Microbiological and Chemical Analysis of Bamboo Textile Materials and Leathers Modified with Bamboo Extract at the Tanning Stage

*K. Lawińska, W. Serweta, N. Popovych, K. Sieczyńska, S. Decka, D. Woźnicki, D. Ogródowczyk, A. Rostocki, M. Sprynskyy*

#### 40 Improving the Water-Repellent and Antifungal Properties of Electrospun Cellulose Acetate Materials by Decoration with ZnO Nanoparticles

*N. Nachev, M. Spasova, N. Manolova, I. Rashkov, M. Naydenov*

#### 47 Impact of Activator Content on the Process of Photodegradation of PP Non-Wovens

*E. Mielicka, B. Witkowska, D. Puchowicz, I. Kamińska*

#### 60 Characterisation of Two Direct Covers Made of PP and HDPE in the Organic Production of Zucchini

*P. Bucki, P. Siwek, A.L. Mora Ojeda*

#### 67 Investigation of Stab Protection Properties of Aramid Fibre-Reinforced 3D Printed Elements

*D.B. Sitotaw, D. Ahrendt, Y. Kyosev, A.K. Kabish*

#### 74 Optimisation of Process Parameters in Flocked Fabric Production to Eliminate the Non-Recovery Problem of Bent Fibres in Flock

*İ. Çamlıyurt, F. Deniz, İ.Ç. Ay, R. Atav*

#### 80 Characterisation of Interlock Knitted Fabric with Different Feed Patterns to Improve Thermal and Sensorial Comfort

*H. Jamshaid, A.W. Rajput, B. Zahid, S. Hussain*

#### 86 Geometric Characteristic of a Sewing Needle Applied in Clothing Manufacture Technology with Reference to Elastic Critical Statically Balance Loads – A Comparative Study

*W.A. Hashima*

#### 91 Clothing Image Classification with a Dragonfly Algorithm Optimised Online Sequential Extreme Learning Machine

*J. Li, W. Shi, D. Yang*

#### 97 Colour Difference Classification for Dyed Fabrics Based on Differential Evolution with Dynamic Parameter Selection to Optimise the Output Regularisation Extreme Learning Machine

*Z. Zhou, D. Liu, J. Zhang, Z. Zhu, D. Yang, L. Jiang*

#### 103 Simulation Evaluation Method for Fusion Characteristics of the Optical Camouflage Pattern

*X. Yang, W.D. Xu, J. Liu, Q. Jia, W.N. Zhu*

### FIBRE ART

#### 111 Overseas Dissemination of Ancient Chinese Costume Culture from the Perspective of Cultural Confidence

*Z. Wang, R. Cui, T. Cong, H. Liang*

#### 118 Information for Authors. Advertising and Subscription Information

**General information:** Renewable Materials Conference 2021 – cover II, p. 25, 116; The „Clothing Body Interaction 2021” – p. 18, 73; INDEX™20 – p. 32; 4<sup>th</sup> International Conference on Sustainable Textiles 2021 – p. 39; Techtextil 2022 – p. 45; IOHA 2021 – p. 46; Webinar on Materials and Science Technology 2021 – p. 59; HIGHTEX 2021, ITM 2021 – p. 79; Textile Exchange 2021 – p. 85; E-Textiles 2021 – p. 90; SBL-IBWCh – FTTEE – p. 102; InterTextile 2021 – p. 110; ŁUKASIEWICZ Research Network – Institute of Biopolymers and Chemical Fibres – p. 117; ŁUKASIEWICZ Research Network – Institute of Biopolymers and Chemical Fibres – Medical masks (commercial offer) – cover III.