

# FIBRES & TEXTILES

## in Eastern Europe

January/February 2021  
Volume 29, No. 1 (145)  
ISSN 1230-3666  
eISSN 2300-7354  
IF 0.775 (2019)  
5 – Year Impact Factor 0.782  
ICV 154.27 (2019)

### Editorial Office

ul. Skłodowskiej-Curie 19/27, 90-570 Łódź, Poland  
tel. (48-42) 638-03-14  
e-mail: infor@ibwch.lodz.pl, FTEE@ibwch.lukasiewicz.gov.pl  
http://www.fibtex.lodz.pl

### Editorial Department

Editor-in-Chief	Text Editor
<b>Emilia Jaszczurska-Niedźwiedzka</b>	<b>Geoffrey Large</b>
Vice Editor-in-Chief	Typesetting
<b>Marta Cyrczak-Adhikari</b>	<b>Beata Gawłowska, Media-Press</b>
Assistant Editor	Printed at
<b>Anna Wahl</b>	<b>Media-Press</b>

### Editorial Committee

Chairperson:

**Dariusz Wawro** (IBWCh)

Members:

**Danuta Ciechańska** (ITE-PIB)  
**Izabela Ciesielska-Wróbel** (UGent, NCSU)  
**Włodzimierz Cygan** (TUL)  
**Zdzisław Czapliski** (INFMP)  
**Robert Drobina** (UB-B)  
**Radosław Dziuba** (UL)  
**Ryszard Korycki** (TUL)  
**Bipin Kumar** (HKPU)  
**Bogdan Mac** (IBWCh)  
**Adnan Mazari** (TUL)  
**Małgorzata Michniewicz** (IBWCh)  
**Zbigniew Mikołajczyk** (TUL)  
**Daiva Mikučionienė** (KTU)  
**Monika Rom** (UB-B)  
**Sigitas Stanys** (KTU)  
**Zbigniew Stempień** (TUL)  
**Krystyna Twarowska-Schmidt** (IBWCh)  
**Alojzy Urbanowski** (IBWCh)

### Scientific Board

Chairperson:

**Prof. Katarzyna Grabowska** (TUL) Poland

Members:

**Prof. Valery Bashmetau** (VSTU) Belarus  
**Prof. Andrzej Błędzki** (ZUT) Poland  
**Prof. Chokri Cherif** (TU Dresden) Germany  
**Prof. Hans-Peter Fink** Potsdam, Germany  
**Prof. Lubos Hes** (TU Liberec) Czech Republic  
**Prof. Tadeusz Jackowski** (TUL) Poland  
**Prof. Vladan Koncar** (ENSAIT) France  
**Prof. Ryszard Kozłowski** (IWNIRZ) Poland  
**Prof. Izabella Krucińska** (TUL) Poland  
**Prof. Anton Marcinčin** (STU) Slovak Republic  
† **Prof. Józef Masajtis** (TUL) Poland  
**Prof. Rimvydas Mилаšius** (KTU) Lithuania  
**Prof. Jiří Militký** (TUL) Czech Republic  
**Prof. Heinrich Planck** Denkendorf, Germany  
**Prof. Zoran Stjepanović** (UM) Slovenia  
**Prof. Lieva Van Langenhove** (UGENT) Belgium

FIBRES & TEXTILES in Eastern Europe  
is decorated with the Golden Order  
of the Polish Textile Association



FIBRES & TEXTILES in Eastern Europe is inserted on the Master Journal List of Clarivate Analytics Philadelphia, USA and on Index Copernicus Journal Master List. The journal is indexed in Research Alert, SCI Expanded (SCI Search and Web of Science), the Materials Science Citation Index, Current Contents/Engineering, Computing & Technology; the Textile Institute, Manchester, in the Information Service; Rapra Technology Ltd.; Elsevier Geo Abstracts; Chemical Abstracts Service; and Referativny Zhurnal, i.a.

No part of this publication may be reproduced without the prior written permission of the publisher: Łukasiewicz-IBWCH.

No responsibility is assumed by the publisher for any injury and/or damage to persons or property as a matter of application of any methods, products, instructions or ideas contained in the material herein. Although all advertising material is expected to conform to ethical standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product.

On the cover a fragment of Jolanta Owidzka's structural tapestry 'Prayer book'

published by:

 **Łukasiewicz**  
Institute of Biopolymers  
and Chemical Fibres