

FIBRES & TEXTILES

in Eastern Europe

May/June 2021
Volume 29, No. 3 (147)
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
Emilia Jaszczurska-Niedźwiedzka	Geoffrey Large
Vice Editor-in-Chief	Typesetting
Marta Cyrczak-Adhikari	Beata Gawłowska, Media-Press
Assistant Editor	Printed at
Anna Wahl	Media-Press

Editorial Committee

Chairperson:

Dariusz Wawro (IBWCh)

Members:

Danuta Ciechańska (ITE-PIB)
Izabela Ciesielska-Wróbel (UGent, NCSU)
Włodzimierz Cygan (TUL)
Zdzisław Czaplicki (INFMP)
Robert Drobin (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. 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 Scopus, ROAD, Unpaywall, 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