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2020

M. Rabe

Alternativen für Sport- und Outdoorkleidung - Mikroplastik aus Textilien belastet die Umwelt
Interview in: CSR Magazin Nr. 35 - Das Buch zum Online-Fachmagazin „Globalisierung (mit-)
verantworten“, S. 161f, UVG Verlag

ISSN: 2192-1520

<https://csr-news.org/2020/10/19/mikroplastik-aus-textilien-belastet-die-umwelt/>

E. Strunevich, U. Detering-Koll, B. Quattelbaum

Investigation of usability and measurement accuracy of 3D body scanning mobile applications

COMMUNICATIONS IN DEVELOPMENT AND ASSEMBLING OF TEXTILE PRODUCTS, peer reviewed,
ISSN 2701-939X

2020, Vol. 1, No. 2, pp. 130-140

DOI 10.25367/cdatp.2020.1.p130-140

M.Ernst, A. Christophersen, M.Böhm, U. Botzenhardt

Efficient Virtual Garment Fit Evaluation Infrastructure based on Synthetic Avatar Target Customer Groups
for MtM Application

CDATP Vol. 1 No. 2 p. 160 - 169 Published: 22.11.20

E. Bendt (Interview U. Wirtz)

Mission Mikroplastik, Umweltschutz – Wie eine Rundstrickmaschine von Mayer & Cie. Zu einem
Forschungsprojekt über unbedenkliche Fleece-Stoffe beiträgt

Artikel in aktiv, Nr. 10, 12.12.2020

T. Borgstädt, B. Mahltig,

Laser treatment of high-performance Kynol fibers – an example as alternative tool for coloration and
imaging on surfaces of high-performance fibers

Tekstilna Industrija, 2020, 68(3), 4-9.

H. Barani, B. Mahltig

Using microwave irradiation to catalyse the in-situ manufacturing of silver nanoparticle on cotton fabric for
antibacterial and UV-protective application

Cellulose, 2020, 27, 9105-9121

C. Graßmann, M. Mann, L. van Langenhove, A. Schwarz-Pfeiffer

Textile Based Electrochromic Cells Prepared with PEDOT:PSS and Gelled Electrolyt

Sensors 2020, 20, 5691; doi:10.3390/s20195691

M.E. Wachs

The "Flow" in Design: KI needs EQ in Creating -Super Power Extreme Conditions in Designing or wishful
Thinking for Working Conditions

within the research project: • Artificial Intelligence and Emotional Intelligence in Design and the Change in
Cultural Identity, 04/2020

DOI: 10.13140/RG.2.2.27051.59683

O. Heß, M. Korger, B. Mahltig

Reource water: reduction of water consumption during reactiv dyeing of cotton

Melliand Textilberichte – Textile Finishing 3/2020, S. 134ff, Oktober 2020

O. Heß, M. Korger, B. Mahltig

Wertstoff Wasser: Verminderung des Wasserverbrauchs bei Reaktivfärbungen von Baumwolle

Melliand Textilberichte – Textilveredlung 2-3/2020, S. 84ff, September 2020

T. Grethe, B. Mahltig

Alternative Prüfungsformen im Sommersemester 2020

Die Neue Hochschule, DNH, Zeitschrift des Hochschullehrerverbundes, hlb, 2020, Ausgabe 06-2020, 42-45.

M. T. Hoque, B. Mahltig

[Realisation of polyester fabrics with low transmission for ultraviolet light](#)

Coloration Technology, 2020, 136, 346-355.

E. Bendt

[Leinen trifft auf Tribal Tech – Nachhaltiges Leinenprojekt an der Hochschule Niederrhein](#)

Begleitpublikation zur Ausstellung „Gut betucht – Textilerzeugung bei den Alamannen“

Schriften des Alamannenmuseums Ellwangen, Band 4, S. 49f, ISBN 978-3-00-065529-6

J. Krolzik, R. Werner, E. Bendt

Textile Anwendungen für Heidschnuckenwolle

Begleitpublikation zur Ausstellung „Gut betucht – Textilerzeugung bei den Alamannen“

Schriften des Alamannenmuseums Ellwangen, Band 4, S. 48, ISBN 978-3-00-065529-6

M. Korger, A. Glogowsky, S. Sanduloff, C. Steinem, S. Huysman, B. Horn, M. Ernst, M. Rabe

Testing thermoplastic elastomers selected as flexible three-dimensional printing materials for functional garment and technical textile applications

Journal of Engineered Fibers and Fabrics, Volume 15:1-10, Juni 2020

<https://doi.org/10.1177/1558925020924599>

G. Seide, R. Groten

Biologische Abbaubarkeit – Ein genauerer Blick lohnt sich!

Branchenheft Kunststoffland NRW (www.kunststoffland-nrw.de), April 2020

B. Mahltig

Fibers for radiation protection

book chapter in: Handbook of Fibrous Materials Vol 2, edited by: J. Hu, B. Kumar, J. Lu, Wiley-VCH Books, 2020, pages: 889-926, ISBN: 978-3-527-34256-3

H. Kuhnen, B. Mahltig

Faserbasierte Alternativprodukte für Leder

Melliand Textilberichte, 2020, 101, 43-45

W. Hanbing, H. Haase, B. Mahltig,

Cationic Pretreatment for Reactive Dyeing of Cotton and its Simultaneous Antibacterial Functionalisation

Tekstilec, 2020, 63, 27-37.

T. Grethe, K. Plenkmann, C. Steinem, A. Schwarz-Pfeiffer

Integration of a halochromic pH Sensor in a Wound Dressing for Continuous pH Observation

(to be published)

T. Grethe, K. Lux, A. Schwarz-Pfeiffer

Catalytic Textile Surfaces by Deposition of Gold on Titanium Oxide Coatings

(to be published)

T. Grethe, A. Schwarz-Pfeiffer, A. Klose

Anordnung mindestens eines Sensors an einer Wundauflage, Wundauflage, Sensorhalter sowie Verfahren zur Überwachung des Zustandes einer Wunde eines Lebewesens

Patent-Offenlegungsschrift DE102018107046A1

M. Korger, A. Glogowsky, S. Sanduloff, C. Steinem, S. Huysman, B. Horn, M. Ernst, M. Rabe

Testing thermoplastic elastomers (TPEs) selected as flexible 3D printing materials for functional garment and technical textile applications

Journal of Engineered Fibers and Fabrics, 2020

2019

A. Glogowsky, M. Korger, S. Sanduloff, C. Steinem, J. Meyer, S. Huysman, M. Ernst, M. Rabe
Passt wie angedruckt. Mit additiver Fertzigung zu mehr Komfort bei Schutzlösungen für Bekleidung
Kettenwirk-Praxis, Technical Textiles, 03/2019, 26-27

B. Mahltig, M. Rabe, M. Muth
Textiles, Dyeing, and Finishing
Kirk-Othmer Encyclopedia of Chemical Technology, 2019, (35 pages)
<https://doi.org/10.1002/0471238961.0609140903011201.a01.pub2>

M. Böhm, S. Rose, M. Schlütter, B. Mussmann, S. Jug, C. Oskamp, M. Ernst, D. Güntzel, S. Sanduloff, S. Bayer, A. Christophersen, J. Lehmann
Produktentwicklung im digitalen Wandel – Bausteine eines vollständig virtuellen Entwicklungsprozesses
Session „Best Practices: Transfer –Von der Idee bis zur Praxis“
Book of Abstracts - Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

R. Groten, G. Seide
Integration von Nachhaltigkeits-Aspekten von Polymeren in der Entwicklung textiler Produkte
Session „Polymer Materials & Functionalization“
Book of Abstracts - Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

R. Klauer, M. Rabe, E. Bendt, S. Stolte
Mikroplastik textilen Ursprungs – Ansätze zur Vermeidung in der textilen Lieferkette eines Outdoor-Bekleidungsherstellers
Session „Polymer Materials & Functionalisation“
Book of Abstracts - Aachen-Dresden-Denkendorf International Textile Conference, Dresden

T. Grethe, K. Lux, A. Schwarz-Pfeiffer
Achieving textile based supported noble metal catalysts by physical vapor deposition
Poster - Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

T. Grethe, K. Plankmann, A. Schwarz-Pfeiffer
Sensory wound dressing and data acquisition assembly for continuous monitoring of wound healing and wound pH
Poster - Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

O. Heß, M. Korger, B. Mahltig, F.-A. Weber, H. Freericks a.f.
Sustainable water use in reactive cotton dyeing processes derived from advanced dyeing chemicals and technologies
Poster -Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

S. Kolbe, S. Brandt, M. Obermann, J. Meyer, S. Küppers, R. Rössel, M. Rabe, E. Bendt, M. Lykaki, Y. Chang, S. Stolte
Development of functional textiles with reduced output of synthetic microparticles
Poster -Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

M. Cont, E. Rohleder, R. Werner, M. Rabe, T. Weide
Influence of the cross section of viscose fibers on the thermal insulation of nonwovens
Poster -Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

C. Graßmann, A. Schwarz-Pfeiffer, L. van Langenhove
Microwave assisted electroless deposition of zinc oxide on fabrics
Poster -Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

K. Mengler, R. Brendgen, C. Graßmann, T. Grethe, M. Mahltig, A. Schwarz-Pfeiffer
Investigation of recycled polyvinyl butyral for yarn based textile coatings,

Poster - Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

M. Normann, K. Mengler, Y. Kyosev, A. Schwarz-Pfeiffer

Investigation of color-changing filaments based on an interference filter principle Through multilayer deposition of silver particles and polymer coatings

Poster - Aachen-Dresden-Denkendorf International Textile Conference 2019, Dresden

E. Lempa, M. Rabe, L. Van Langenhove

Coating and digital printing electrically conductive paths on textiles under consideration of percolation threshold

20.-22. November 2019, 3rd International The Recent progress symposium on textile technology and chemistry. Bursa, Turkey

E. Y. Strunevich, U. Detering-Koll, M. Ernst

Investigation of New Technologies for Retail Returns Solutions in Apparel E-commerce

Proceedings of International Scientific and Technical Symposium "Modern Engineering Problems in the Production of Consumer Goods", KOSYGIN INTERNATIONAL FORUM "MODERN CHALLENGES OF ENGINEERING SCIENCES", 29-30 October 2019, Moscow, Russian State University named after A.N. Kosygin (Technology. Design. Art), 2019. Part 3, pp. 172 – 175.

E. Calhan, B. Mahltig,

Microwave assisted process for silver/silica sol application onto cotton fabrics

Journal of Sol-Gel Science and Technology, 2019, 92, 607-617.

X. Song, U. Cvelbar, P. Strazar, L. Vossebein and A. Zille

Chemical, thermo-mechanical and antimicrobial properties of DBD plasma treated disinfectant impregnated wipes during storage

Polymers 2019, 11, 1769; doi:10.3390/polym11111769

M. Wachs, A. Hall

"Fashion Furniture Future" European Driving Range – Innovative Landscapes For A Tangible, Non-Hierarchical Learning Space Within A Material And Immaterial Togetherness

13.09.2019, Lecture Abstract for International Conference On Engineering And Product Design

EducationDepartment Of Design, Manufacture And Engineering Management, University Of Strathclyde, Glasgow, UK

M. Wachs

The entrepreneurial power of design schools - like Bauhaus – as driver for business models for industry yesterday and tomorrow - case studies: profitable partnerships in architecture and textile

6. September 2019, Lecture Abstract for Annual Design History Society Conference 2019, Northumbria University, Newcastle, UK

T. Brunke, S. Cetin, S. Gelderblom, B. Aslan, A. Glogowsky, K. Ratovo, A. Büsgen

Funktionale und thermisch hoch belastbare Tuftings für technische Textilien

Technische Textilien Nr4 , September 2019, S. 263-265

J. Pallmann, Y.-L. Ren, B. Mahltig, T.-G. Huo,

Phosphorylated sodium alginate/APP/DPER intumescent flame retardant used for polypropylene

Journal of Applied Polymer Science, 2019, 136, 47794 (10 pages)

S. Gemein, J. Gebel, B. Christiansen, H. Martiny, L. Vossebein, F.H.H. Brill, M. Decius, M. Eggers, T.

Koburger-Janssen, M. Meckel, S. Werner, B. Hunsinger, T. Selhorst, G. Kampf, M. Exner

Interlaboratory reproducibility of a test method following 4-field test methodology to evaluate the susceptibility of Clostridium difficile spores

Journal of Hospital Infection 103 (2019) 78-84

A. Wollenberg, J. Srour, T. Smolik, E. Berg, B. Mahltig
Silver, Silk, Atopic Eczema and the CLOTHES trial – Reply to a Letter (JEADV- 2018-2487)
Journal of the European Academy of Dermatology and Venereology, 2019, 33, e169.

G. Chen, H. Haase, B. Mahltig
Chitosan-modified silica sol applications for the treatment of textile fabrics: a view on hydrophilic, antistatic and antimicrobial properties
Journal Sol-Gel Science & Technology, 2019, 91, 461-470.

O. Hess, M. Korgner, B. Mahltig, F.-A. Weber
Reaktivfärbung von Baumwolle: Optimierung des Wasserbedarfs
Textilplus, 2019, 7, issue 9/10, 18-21.

B. Mahltig
Nanosols for Smart Textiles
book chapter 3 in:
Smart Textiles – Wearable Nanotechnology
edited by: N.D. Yilmaz
Scrivener Publishing, Hoboken New Jersey, 2019, pages 91-110
ISBN 978-1-119-46022-0

J. Srour, E. Berg, B. Mahltig, T. Smolik, A. Wollenberg
Evaluation of Antimicrobial Textiles for Atopic Dermatitis
Journal of the European Academy of Dermatology and Venereology, 2019, 33, 384-390

F. Saad, A. Baffoun, B. Mahltig, M. Hamdaoui
Dyeing of polyester woven fabric using a fluorescent organic dye with conventional and irradiation microwave technique
International Journal of Applied Research on Textile, 2019, 8, 23-30

M. M. Rashid, B. Mahltig, K. Mamun
Surface Modification of Cotton Fabric with Effect Pigment – A Review of Improved Textile Optical Functionalization
International Journal of Textile Science, 2019, 8, 10-15

M. M. Rashid, B. Mahltig
Inorganic Effect Pigment-Binder System following Sol-Gel Process – Application for Optical Textile Functionalization
Journal of Fashion Technology & Textile Engineering, 2019, 7/3, 1-6

M. M. Rashid, B. Mahltig
Electric Conductivity of Inorganic Effect Pigment Coated Cotton Textile Using Sol-Gel Process
Journal of Textile Science & Engineering, 2019, 9/2, 1-2

M. M. Rashid, B. Mahltig
Light Absorption of the Aluminium Effect Pigment Coated Textile
Journal of Materials Science and Nanomaterials, 2019, 3/1, 1-7

K. Baatout, F. Saad, A. Baffoun, B. Mahltig, D. Kreher, N. Jaballah, M. Majdoub
Luminescent cotton fibers coated with fluorescein dye for anti-counterfeiting applications
Materials Chemistry and Physics, 2019, 234, 304-310

M. M. Rashid, B. Mahltig
Effect of TiO₂ Nanoparticles on Aluminium Effect Pigment Coated Fabric-Application of Reflection and Transmission of Light through Fabric
Journal of Textile Science & Engineering, 2019, 9/2, 1-5

M. Muth
ITMA-Nachschau: Textildruckerei
TextilPlus Focus, Ausgabe 07/08-2019, S. 23-28

C. Graßmann, T. Grethe, L. van Langenhove, A. Schwarz-Pfeiffer
Digital printing of electroluminescent devices on textile substrates
Journal of Engineered Fibers and Fabrics 2019, 14, 1-10
DOI: 10.1177/1558925019861624

T. Grethe, S. Borczyk, K. Plenkmann, M. Normann, M. Rabe, A. Schwarz-Pfeiffer
Textile humidity sensors
2018 Symposium on Design, Test, Integration & Packaging of MEMS and MOEMS (DTIP), Roma, 2018, pp. 1-3.
doi: 10.1109/DTIP.2018.8394188
URL: ieeexplore.ieee.org/stamp/stamp.jsp

C. Graßmann, T. Grethe, A. Krause, C. Großerhode, J. Storck, A. Ehrmann, L. van Langenhove, A. Schwarz-Pfeiffer, Anne
Textile Based Dye-Sensitized Solar Cells with Natural Dyes
AUTEX 2019, 19th World Textile Conference, Gent, Belgium
URL: biblio.ugent.be/publication/8620443

K. Steinhauer, H.-J. Rödger, K. Teckemeyer, B. Christiansen, J. Gebel, H. Martiny, B. Meyer, C. Ostermeyer, L. Vossebein
Why volume matters – implications of applied volume of alcohol-based disinfectants for infection prevention
Journal of Hospital Infection, Volume 101, Issue 4, April 2019, Pages 423-425

S. Kohn, C. Großerhode, J. L. Storck, G. Grötsch, C. Cornelißen, A. Streitenberger, C. Grassmann, A. Schwarz-Pfeiffer, A. Ehrmann
Commercially available teas as possible dyes for dye-sensitized solar cells
Optik - International Journal for Light and Electron Optics, online first (2019)

B. Mahltig
Nanosols for Smart Textiles
book chapter 3 in:
N.D. Yilmaz (Ed.)
Smart Textiles – Wearable Nanotechnology
Scrivener Publishing, Hoboken New Jersey, 2019, pages 91-110
ISBN 978-1-119-46022-0

J. Srour, E. Berg, B. Mahltig, T. Smolik, A. Wollenberg
Evaluation of Antimicrobial Textiles for Atopic Dermatitis
Journal of the European Academy of Dermatology and Venereology, 2019, 33, 384-390.

F. Saad, A. Baffoun, B. Mahltig, M. Hamdaoui
Dyeing of polyester woven fabric using a fluorescent organic dye with conventional and irradiation microwave technique
International Journal of Applied Research on Textile, 2019, 8, 23-30.

M. M. Rashid, B. Mahltig, K. Mamun
2Surface Modification of Cotton Fabric with Effect Pigment – A Review of Improved Textile Optical Functionalization
International Journal of Textile Science, 2019, 8, 10-15.

L. Sabantina, M. Klöcker, M. Wortmann, J. Rodríguez-Mirasol, T. Cordero, E. Moritzer, K. Finsterbusch, A. Ehrmann
Stabilization of PAN nanofiber mats obtained by needleless electrospinning using DMSO as solvent
Journal of Industrial Textiles, online first

2018

L. C. Greiler, H. Haase, B. Mahltig

Microwave assisted conversion of an amino acid into a fluorescent solution

Acta Chimica Slovenica, 2018, 65, 865-874

A. Glogowsky, T. Brunke, K. Ratovo, A. Büsgen, B. Aslan

2019. Mechanical Fixation of Tufted Pile Loops Into the Primary Backing by Using the Parameters of Fabric Weave Design. Application of Newly Developed Yarn Tension Compensation Device for Tufting of Technical Yarns. Vlákná a textil 26, 1, 35–40

B. Hilgenberg, L. Vossebein

Test Method Dependent Efficacy of Antibacterial Textiles

Tenside Surf. Det. 55 (2018) 5, 398-403

T. Brunke, B. Aslan, A. Glogowsky, E. Gsell, K. Ratovo, A. Büsgen

Tuftings aus unelastischen Garnen – ein neuer Typ Textil

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference
29.-30. November 2018, Aachen

E. Lempa, A. Schwarz-Pfeiffer, C. Graßmann, M. Rabe, M. Muth, S. Vater, J. van Boxtel

Flexible and digitally printed luminescent advertising banner

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference
29.-30. November 2018, Aachen

B. Mahltig, L. Greiler, E. Schüll, E. Calhan, H. Miao, H. Barani

Microwave synthesis – a useful tool for textile functionalisation

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference
29.-30. November 2018, Aachen

B. Mahltig, T. Overkamp, Y. Kyosev

Basalt fibers – limits in thermal and chemical stability

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference
29.-30. November 2018, Aachen

T. Mutschler, M. O. Weber

Weft insertion technology for knitting machines

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference
29.-30. November 2018, Aachen

O. Heß, M. Korger, B. Mahltig, C. Baumann, F.-A. Weber, H. Freericks

Reducing the water footprint of the global cotton-textile industry in Pakistan by implementation and application of efficient and advanced dyeing chemicals, technologies and wastewater treatment

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference
29.-30. November 2018, Aachen

G. Grötsch, C. Cornelißen, C. Graßmann, T. Grethe, C. Großerhode, S. Kohn, J. L. Storck, A.

Streitenberger, A. Schwarz-Pfeiffer, A. Ehrmann

Development of textile-based organic photovoltaics

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference
29.-30. November 2018, Aachen

C. Großerhode, S. Kohn, J. L. Storck, G. Grötsch, C. Cornelißen, A. Streitenberger, C. Graßmann, T. Grethe, A. Schwarz-Pfeiffer, A. Ehrmann

Investigation of dye-sensitive solar cells on different conductive elastic materials

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference
29.-30. November 2018, Aachen

C. Graßmann, T. Grethe, B. Mahltig, B. Morgenstern, O. Klimmt, M. De Vrieze, P. Paelinck, A. Schwarz-Pfeiffer

Coating of recycled Polyvinylbutyral on yarns and textiles

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference

29.-30. November 2018, Aachen

K. Klinkhammer, C. Steinem, B. Hilgenberg, I. Siebgens, A. Brosch, J. Becker, T. Fernandez, M. Krings, L. Vossebein

Self-adhesive yarns for preparation of liquid-tight seams

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference

29.-30. November 2018, Aachen

T. Grethe, K. Plenkmann, M. Normann, M. Rabe, A. Schwarz-Pfeiffer

Realizing Moisture Sensors with Textile Materials in Different Integration Levels by Using Capacitive Measurement Principles

Book of Abstracts; Aachen-Dresden-Denkendorf International Textile Conference

29.-30. November 2018, Aachen

M.-E. Wachs, M. Obermann, F. Poddig, E. Esser

TEXTILE ARCHISKULPTUR

Hochschule Niederrhein, Fb. Textil und Bekleidungstechnik, Mönchengladbach

[web.hs-](http://web.hs-niederrhein.de/fileadmin/dateien/FB07/Forschung/Forschungsprojekte/01Messekatalog_archiskulpturProfWachs2018small.pdf)

niederrhein.de/fileadmin/dateien/FB07/Forschung/Forschungsprojekte/01Messekatalog_archiskulpturProfWachs2018small.pdf

T. Overkamp, B. Mahltig, Y. Kyosev,

Strength of basalt fibers influenced by thermal and chemical treatment

Journal of Industrial Textiles, 2018, 47, 815-833

F. Terzioglu, T. Grethe, C. Both, A. Joßen, B. Mahltig, M. Rabe

Coating Technologies for Antimicrobial Textile Surfaces: State of the Art and Future Prospects for Textile Finishing

book chapter 7 in: Handbook of Antimicrobial Coatings, edited by: A. Tiwari

Elsevier, Amsterdam, 2018, pages 123-135, ISBN 978-0-12-811982-2

B. Mahltig

Metal Pigments as Antimicrobial Agent and Coating Additives

book chapter 14 in: Handbook of Antimicrobial Coatings, edited by: A. Tiwari

Elsevier, Amsterdam, 2018, pages 283-299, ISBN 978-0-12-811982-2

B. Mahltig, Y. Kyosev

Inorganic and Composite Fibers, 1st Edition

Elsevier, Cambridge, 2018

Paperback ISBN: 9780081022283

<https://www.elsevier.com/books/inorganic-and-composite-fibers/mahltig/978-0-08-102228-3>

Chapter 1, pages 1-29:

B. Mahltig

> Introduction to Inorganic fibers

Chapter 5, pages 87-103:

B. Mahltig, C. Pastore

> Silicon Carbide fibers

Chapter 8, pages 165-193:

B. Mahltig, C. Pastore

> Mineral and Ceramic fibers

Chapter 9, pages 195-217:

B. Mahltig

> Basalt fibers

Chapter 12, pages 277-301:

B. Mahltig

> Cellulosic based composite fibers

Chapter 13, pages 303-319:

T. Grothe; R. Böttjer, D. Wehlage, C. Großerhode, J.-L. Storck, I.-J. Junger, B. Mahltig, T. Grethe, C. Grassmann, A. Schwarz-Pfeiffer, A. Ehrmann

> Photocatalytic Properties of TiO₂ Composite Nanofibers Electrospun With Different Polymers

E. Wirth, L. Sabantina, M. O. Weber, K. Finsterbusch, A. Ehrmann

Preliminary study of ultrasonic welding as a joining process for electrospun nanofiber mats
Nanomaterials 8, 746 (2018)

L. Sabantina, D. Wehlage, M. Klöcker, A. Mamun, T. Grothe, F. J. García-Mateos, J. Rodríguez-Mirasol, T. Cordero, K. Finsterbusch, A. Ehrmann

Stabilization of electrospun PAN/gelatin nanofiber mats for carbonization
Journal of Nanomaterials, online first (2018)

B. Mahltig, L. C. Greiler, M. Klöcker, A. Ehrmann, H. Haase

Mikrowellensynthese zur Realisierung fluoreszierender Ausrüstungsmittel
Melliand Textilberichte 99, 83-84 (2018)

L. Sabantina, J. R. Mirasol, T. Cordero, K. Finsterbusch, and A. Ehrmann

Investigation of Needleless Electrospun PAN Nanofiber Mats
AIP Conference Series 1952, 020085 (2018)

N. Grimmelsmann, M. Kreuziger, M. Korger, H. Meissner, A. Ehrmann

Adhesion of 3D printed material on textile substrates
Rapid Prototyping Journal 24, 166-170 (2018)

S. Fafenrot, M. Korger, A. Ehrmann

Mechanical properties of composites from textiles and three-dimensional printed materials
in: M. Jawaid, M. Thariq and N. Sabe (Eds.), Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites, Woodhead Publishing (2018), 409-425.

eBook ISBN: 9780081023006

Paperback ISBN: 9780081022924

B. Hilgenberg, L. Vossebein

Test Method Dependent Efficacy of Antibacterial Textiles
Tenside Surf. Det. 55 (2018) 5, 398-403

A. Glogowsky, E. Gsell, T. Brunke, A. Büsgen

Glasfasertuftings als eine neue Art technischer Textilien

In:

Förderverein Cetex Chemnitzer Textilmaschinen e.V. und Technische Universität Chemnitz

Hg. Technologievorsprung durch Textiltechnik: Förderverein Cetex Chemnitzer Textilmaschinen e.V., S. 46-54. ISBN 978-3-9819949-0-5

M.-E. Wachs

Driver for sustainable (industrial) design culture – the >Design shift<

In:

E. Bohemia, L. Buck, P. Childs et al

Design Education: Diversity or Conformity
2018

M-E. Wachs

Industrial Design Culture and Textiles Traces - a transdisciplinary look at working conditions, industrial changing and the question of identification of producing and designing people as driver for textile culture
Conference Paper "textile and place" Manchester School of Art, Manchester, England, 13. April 2018

I. Juhász Junger, D. Wehlage, R. Böttjer, T. Grothe, L. Juhász, C. Grassmann, T. Blachowicz, A. Ehrmann

Dye-Sensitized Solar Cells with Electrospun Nanofiber Mat-Based Counter Electrodes
Materials 2018, 11, 1604, DOI: 10.3390/ma11091604

I. Juhász Junger, C. Großerhode, J.L. Storck, S. Kohn, T. Grethe, C. Grassmann, A. Schwarz-Pfeiffer, N. Grimmelsmann, H. Meissner, T. Blachowicz, A. Ehrmann
Influence of graphite-coating methods on the DSSC performance
Optik – International Journal for Light and Electron Optics 2018, 174, 40-45, DOI:
10.1016/j.ijleo.2018.08.041

O. Heß, L. Schmerschneider, M. Korger, B. Mahltig, C. Baumann, F.-A. Weber, InoCottonGROW project partners
Reducing the Water Footprint of the Global Cotton-Textile Industry: Efficient Use of Advanced Dyeing Chemicals, Technologies and Wastewater Treatment in Pakistan
International Cotton Conference Bremen 2018, 21.-23.03.2018

B. Mahltig (Eds)
Textiles: Advances in Research and Applications
Nova Science Publishers Inc., New York, 2018
ISBN 978-1- 53612-855-0
Chapter 2, pages 29-60:
H. Miao, E. Schüll, K. Günther, B. Mahltig
> Microwave assisted preparation for the realization of functional and colored textiles
Chapter 6, pages 133-150
> Achieving Electrical Conductivity in Textiles: An Overview of Current Techniques
T. Grethe, K. Günther, T. Weide, A. Schwarz-Pfeiffer
Chapter 7, pages 151-166:
J. Zhang, B. Mahltig
> Coatings with metal effect pigments for textile functionalization to realize UV and IR protective applications
Chapter 8, pages 167-182:
E. Dalponte, B. Mahltig, C. Breckenfelder
> Luminous Textiles for UV-Protection and Light Effect Applications
Chapter 9, pages 183-200:
G. Shabbir, H. Haase, B. Mahltig
> Double functional finishing for textile fabrics: A combination of UV-protective and antimicrobial properties

M.U. Khan, B. Mahltig,
Modification of Polyacrylonitrile (PAN) fibers to improve affinity to anionic components
book chapter 3 in: Polymer Research: Communicating Current Advances, Contributions, Applications and Educational Aspects, edited by: A. Mendez-Vilas, Formatex Research Center, Badajoz, 2018, pages 19-26, ISBN 978-84-947512-4-0

T. Grethe, A. Schwarz-Pfeiffer, C. Graßmann, E. Engelhardt, S. Feld, F. Guo, M. De Vrieze, B. Mahltig
Polyvinylbutyral (PVB) coatings for optical modification of textile substrates
book chapter 5 in: Polymer Research: Communicating Current Advances, Contributions, Applications and Educational Aspects, edited by: A. Mendez-Vilas, Formatex Research Center, Badajoz, 2018, pages 36-45, ISBN 978-84-947512-4-0

Y. Kyosev, B. Mahltig, A. Schwarz-Pfeiffer (Eds)
Narrow and Smart Textiles
Springer International Publishing AG 2018
ISBN 978-3-319-69049-0, ISBN 978-3-319-69050-6 (eBook)
Link: <https://doi.org/10.1007/978-3-319-69050-6>

Chapters:
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> Pattern Design with the Variation Braider VF of Company Herzog GmbH (Part II), 149-158

G. Heinemann

Der neue Online-Handel, Geschäftsmodelle, Geschäftssysteme und Benchmarks im E-Commerce, 9. überarbeitete Auflage, 368 Seiten

Springer-Gabler-Verlag, Wiesbaden 2018, ISBN 978-3-658-20353-5

G. Heinemann

Die Neuausrichtung des APP- und Smartphone-Shopping – Mobil Commerce, Mobile Payment, Location Based Services, Social-Apps und Chatbots im Handel, 230 Seiten

Springer-Gabler-Verlag, Wiesbaden 2018, ISBN 978-3-658-19134-4

G. Heinemann, S. Wenzel (2018)

The Digital City, Using the Example of „Mönchengladbach on eBay“

in: Albach et. al. (Hrsg.),

Sammelband „European Cities in Dynamic Competition“. Theory and Case Studies on Urban Governance, Strategy, Cooperation and Competitiveness, S. 187-214, Springer, Berlin, ISBN 978-3-662-56418-9.

G. Heinemann

Marketing Weiterdenken – Reflektion von Gerrit Heinemann

in: Bruhn, M.; Kirchgeorg, M. (Hrsg.). Marketing Weiterdenken, Zukunftspfade für eine marktorientierte Unternehmensführung, S. 277-282

Springer-Gabler, Wiesbaden, ISBN 978-3-658-18537-4. S. 277-282.

G. Heinemann

Disruptive Transformation – eine Lösung für das Dilemma „digitale Disruption oder Transformation“ im Handel

Keuper et.al. (Hrsg.), Disruption und Transformation Management. Digital Leadership – Digitales Mindset – Digitale Strategien, S. 291-324

Springer-Gabler, Wiesbaden, ISBN 978-3-658-119130-6.

G. Heinemann, F. Handt

Wissen, was der Kunde will

in: anyway media GmbH (Hrsg.), Customer Centricity. Real, digital, international. Trend Report, Bonn ISBN 978-3-9818482-3-6. S. 54-59

G. Heinemann

Intro - Die zukünftige Rolle des Handels für Stadt, Land und Gesellschaft

Einleitung bevh. Weißbuch 2018

weissbuch-versorgung.atlassian.net/wiki/spaces/WV/pages/593421/Intro+-+Die+zukun+ftige+Rolle+des+Handels+f+r+Stadt+Land+und+Gesellschaft

G. Heinemann, F. Handt

Die Zukunft von Offline liegt Online

in: MARKENARTIKEL Heft 1-2018 vom 23-01-2018, S. 12-14, ISSN:0342-1236

2017

S. Trummer, A. Ehrmann, A. Büsgen

Development of underwear with integrated 12 channel ECG for men and women
Autex Research Journal 17, 344-349 (2017)

L. Sabantina, K. Finsterbusch, A. Ehrmann, J. R. Mirasol, T. Cordero

Development of carbon nanofibers for integration in 3D printing filaments

Proc. of Aachen-Dresden-Denkendorf International Textile Conference, Stuttgart/Germany, November 30 - December 1, 2017

A. Lehmann, A. Ehrmann, K. Finsterbusch

Optimization of 3D printing with flexible materials

Proc. of Aachen-Dresden-Denkendorf International Textile Conference, Stuttgart/Germany, November 30 - December 1, 2017

E. Kreikebaum, M. Lutz, M. Doerfel, K. Finsterbusch, A. Ehrmann

3D printing of Braille on textiles

Melliand International 23, 114-116 (2017)

K. Klinkhammer, E. Rohleder, C. Graßmann, E. Janssen

Structured textile surfaces for easy-to-clean properties towards dry soil

Materials Today: Proceedings, 2017, 4 (Suppl. 2), S101-S10

Link: www.sciencedirect.com/science/journal/22147853/4/suppl/S2

M. Obermann, A. Schwarz-Pfeiffer, T. Grethe

Challenges in creating electronic medical textiles – a multidisciplinary effort

Proceedings of the Aachen-Dresden-Denkendorf International Textile Conference, 30.11 – 01.12.2017, Stuttgart

A. Krause, A. Schwarz-Pfeiffer, T. Grethe

Carbonaceous Conductive Coatings for the Application In Medical Textiles

Proceedings of the Aachen-Dresden-Denkendorf International Textile Conference, 30.11 – 01.12.2017, Stuttgart

M. Korgner, L. Schmerschneider, O. Heß, B. Mahltig, F.-A. Weber, InoCottonGROW project partners

Reducing the water footprint of the cotton-textile industry in Pakistan: application of advanced dyeing chemicals, technologies and efficient wastewater treatments,

Proceedings of the Aachen-Dresden-Denkendorf International Textile Conference, 30.11.-01.12.2017, Stuttgart

I. Juhász Junger, N. Grimmelsmann, S. V. Homburg, H. Meissner, T. Grethe, A. Schwarz-Pfeiffer, J.

Fiedler, A. Herrmann, T. Blachowicz, A. Ehrmann

Einfluss des pH-Wertes von Anthocyan-Farbstoffen auf die elektrischen Eigenschaften von Farbstoffsolarzellen

In book: Ressourcen-Wissen, Chapter: Einfluss des pH-Wertes von Anthocyan-Farbstoffen auf die

elektrischen Eigenschaften von Farbstoffsolarzellen, Publisher: Graduierteninstitut NRW 2017, Editors: Ralf Holzhauser, Cordula Obergassel, Astrid Rehorek, pp.111-118

www.gi-nrw.de/gi-nrw/fachgruppen/ressourcen/veroeffentlichungen.html

C. Graßmann, M. Obermann, E. Lempa, T. Bache, P.-K. Siegel, T. Freyer, S. Paschko, T. Beyer, M.

Kirsche, A. Schwarz-Pfeiffer

Textile sensors for stab and cut detection

IOP Conference Series: Materials Science and Engineering 254, 072009, 2017

M. Normann, T. Grethe, K. Zöll, A. Ehrmann, A. Schwarz-Pfeiffer

Development of 2D and 3D structured textile batteries processing conductive material with Tailored Fiber Placement (TFP)

IOP Conf. Ser.: Mater. Sci. Eng. 254 (2017) 072016

iopscience.iop.org/article/10.1088/1757-899X/254/7/072016

F. Terzioglu, T. Grethe, C. Both, A. Joßen, B. Mahltig, M. Rabe
Chapter 7: Coating Technologies for Antimicrobial Textile Surfaces: State of the Art and Future Prospects
for Textile Finishing, S. 123 - 136
In A. Tiwari (Edit.): Handbook of Antimicrobial Coatings
Elsevier Inc., 2017
ISBN: 978-0-12-811982-2
www.elsevier.com/books/handbook-of-antimicrobial-coatings/tiwari/978-0-12-811982-2

B. Mahltig
Chapter 14: Metal Pigments as Antimicrobial Agent and Coating Additives, S. 283 - 300
In A. Tiwari (Edit.): Handbook of Antimicrobial Coatings
Elsevier Inc., 2017
ISBN: 978-0-12-811982-2
www.elsevier.com/books/handbook-of-antimicrobial-coatings/tiwari/978-0-12-811982-2

B. Mahltig (Editor)
Chapters by: E. Dalponte, T. Grethe, Ka. Günther, Ke. Günther, F. Heimlich, J. Krolzig, Y. Kyosev, B. Mahltig, M. Mann, H. Miao, M. Rabe, P. Reiners, E. Schüll, G. Shabbir, S. Vater, T. Weide, R. Werner, J. Zhang; E. Bendt, C. Breckenfelder, A. Schwarz-Pfeiffer, u. a.
Textiles: Advances in Research and Applications
Series: Manufacturing Technology Research; 2017 – 4th quarter
ISBN: 978-1-53612-855-0
www.novapublishers.com/catalog/product_info.php

E. Lempa, A. Kitzig, E. Naroska, B. Neukirch, C. Graßmann
Alternative light therapy with luminescent textiles
Journal: Current Directions in Biomedical Engineering; Band 3, Heft 2 (Sep 2017), Seite 461-464
DOI: <https://doi.org/10.1515/cdbme-2017-0097>

T. Kick, T. Grethe, B. Mahltig
A natural based method for hydrophobic treatment of natural fiber material
Acta Chim. Slov. 2017, 64, 373–380
journals.matheo.si/index.php/ACSi/article/view/3232

E. Kreikebaum, M. Lutz, M. Doerfel, K. Finsterbusch, A. Ehrmann
3D-Druck von Blindenschrift auf Textil
Technische Textilien 59, 92-93 (2017)

S. Trummer, A. Ehrmann, A. Büsgen
Development of underwear with integrated 12 channel ECG for men and women
Autex Research Journal, online first (2017)

E. Gsell, F. Heimlich, A. Ehrmann, M. O. Weber
Dependence of dry, wet and washing relaxation on knitted structures and fabric parameters
Industria Textila 68, 121-125 (2017)

T. Blachowicz, A. Ehrmann, B. Mahltig
Magneto-optic measurements on uneven magnetic layers on cardboard
AIP Advances 7, 045306 (2017)

A. Julius, M. Lutz, K. Finsterbusch, A. Ehrmann
Integration of woven fabrics in 3D printed elements to enhance the mechanical properties
Melliand International 23, 30-32 (2017)

A. Julius, M. Lutz, K. Finsterbusch, A. Ehrmann
Integration von Geweben in 3D-gedruckte Bauteile zur Verbesserung der mechanischen Eigenschaften
Melliand Textilberichte 98, 46-47 (2017)

M. Normann, T. Grethe, A. Schwarz-Pfeiffer, and A. Ehrmann

Development and characterization of textile batteries

IOP Conference Series: Materials Science and Engineering 175, 012058 (2017)

I. Juhász-Junger, S. V. Homburg, T. Grethe, A. Herrmann, J. Fiedler, A. Schwarz-Pfeiffer, T. Blachowicz, A. Ehrmann

Examination of the sintering process-dependent properties of TiO₂ on glass and textile substrates

J. Photon. Energy. 7(1), 015001, Mar 16, 2017

Link: photonicforenergy.spiedigitallibrary.org/article.aspx

M. Normann, T. Grethe, A. Schwarz-Pfeiffer, I. Juhász-Junger, A. Herrmann, J. Fiedler, A. Ehrmann

Textile solutions for energy harvesting and storage

Technical Textiles International 60(1):E38-E41, March 2017

T. Grethe, T. Kick, B. Mahltig

Sustainable controlling of hydrophilic properties of cotton and linen by application of amino acids

Journal of the Textile Institute, 2017, 108, 436-439

B. Mahltig, J. Zhang, M. Huth, A. Fahmi

Microstructuring of metal effect pigments in functional coatings on textile substrates

Journal of the Textile Institute, 2017, 108, 538-542

H.S. Natarajan, H. Haase, B. Mahltig

Polyvinylamine application for functionalization of polyethylene fiber materials

Journal of the Textile Institute, 2017, 108, 615-621

I. J. Junger, S. V. Homburg, H. Meissner, T. Grethe, A. Schwarz Pfeiffer, J. Fiedler, A. Herrmann, T. Blachowicz, A. Ehrmann

Influence of the pH value of anthocyanins on the electrical properties of dye-sensitized solar cells

AIMS Energy, 2017, 5(2): 258-267

Link: www.aimspress.com/article/10.3934/energy.2017.2.258

2016

E. Kreikebaum, M. Lutz, M. Doerfel, K. Finsterbusch, A. Ehrmann
 3D printing of Braille on textiles
 Technical Textiles 59, E187-E188 (2016)

D. Gürbüz, K. Finsterbusch, A. Ehrmann
 Development of a therapeutic vest for rehab patients and people with disabilities
 Technical Textiles 59, E157 (2016)

D. Gürbüz, K. Finsterbusch, A. Ehrmann
 Therapeutische Weste für Reha-Patienten und Menschen mit Handicap
 Technische Textilien 59, 164 (2016)

S. Aumann, A. Ehrmann, M. O. Weber (Ed.)
 Proceedings of 48th Conference of the International Federation of Knitting Technologists (IFKT), 8–11 June 2016, Moenchengladbach, Germany
 IOP Conference Series: Materials Science and Engineering 141 (2016)

A. Schwarz-Pfeiffer, M. Obermann, M. O. Weber and A. Ehrmann
 Smarten up garments through knitting
 IOP Conference Series: Materials Science and Engineering 141, 012008 (2016)

M. Obermann, M. Ellouz, S. Aumann, Y. Martens, P. Bartelt, M. Klöcker, T. Kordisch, A. Ehrmann and M. O. Weber
 Non-destructive X-ray examination of weft knitted wire structures
 IOP Conference Series: Materials Science and Engineering 141, 012007 (2016)

J. Bergschneider, M. Korger, Y. Kyosev, M. Lutz, M. Rabe, B. Mahltig
 Textilfunktionalisierung mit 3D-Druck – Textilfunktionalisierung und Schichtadhäsion
 Melliand Textilberichte 97, 4/2016, 197-199

M. Norman, T. Grethe, A. Schwarz-Pfeiffer, I. J. Junger, A. Herrmann, J. Fiedler, A. Ehrmann
 Textile Lösungen zur Energiegewinnung und -speicherung
 Technische Textilien 5/2016, S. 203ff

M.-E. Wachs, E. Bendt, M. Kreuziger, T. Brinkmann, L. Dornbusch, et al.
 The Beauty in Design - Aesthetics and Functions Caused by Combining Analogue with Digital Processing - Case Studies of Fashion Engineering and Automotive Design
 Ind Eng Manage 5: 200, doi:10.4172/2169-0316.1000200

F. Terzioglu, E. Rohleder, M. Rabe, M. Schläpfer, B. Strehmel, R. Hurtz
 Radiation curable textile coatings by UV induced polymerisation
 Proceedings of the 10th Aachen-Dresden International Textile Conference, 24.-25. 11.2016, Dresden

E. Gsell, F. Heimlich, A. Ehrmann, M. O. Weber
 Influence of stitches, tucks and floats, cover factor and stitch density on dry, wet and washing relaxation
 Proceedings of the 10th Aachen-Dresden International Textile Conference, 24.-25. 11.2016, Dresden

J. Neuß, M. Lutz, N. Grimmelsmann, M. Korger, A. Ehrmann
 Interaction between 3D deformation of textile fabrics and imprinted lamellae
 Proceedings of the 10th Aachen-Dresden International Textile Conference, 24.-25. 11.2016, Dresden

L. Sabantina, A. Ehrmann, K. Finsterbusch
 Development of lightweight construction material in composite fiber sandwich structure with integrated dilatant fluid
 Proceedings of the 10th Aachen-Dresden International Textile Conference, 24.-25. 11.2016, Dresden

E. Rohleder, C. Steinem, M. Rabe

Enzymatic treatment of wool

Proceedings of the 10th Aachen-Dresden International Textile Conference, 24.-25. 11.2016, Dresden

B. Mahltig, H. Miao

Microwave supported production process for photoactive textile

Proceedings of the 10th Aachen-Dresden International Textile Conference, 24.-25. 11.2016, Dresden

I. Juhász Junger, S.-V. Homburg, N. Grimmelsmann, T. Grethe, A. Schwarz-Pfeiffer, J. Fiedler, A.

Herrmann, T. Blachowicz, A. Ehrmann

Investigations of textile materials for utilization in dye sensitized solar cells

Proceedings of the 10th Aachen-Dresden International Textile Conference, 24.-25. 11.2016, Dresden

B. Hilgenberg, L. Vossebein

Empfehlungen zum Umgang mit infektionsverdächtiger bzw. infektiöser Wäsche aus

Gemeinschaftsunterkünften für Asylsuchende, Spätaussiedler und Flüchtlinge

HygMed 2016; 41(11): D183-D188

E. Lempa, C. Graßmann, M. Rabe, A. Kitzig, E. Naroska

Color Tuning in Electroluminescent Textiles

Advances in Science and Technology 2017, 100, 53-58, DOI: 10.4028/www.scientific.net/AST.100.53

C. Graßmann, E. Lempa, M. Rabe, A. Kitzig, E. Naroska, B. Neukirch

Electroluminescent Textile for Therapeutic Applications

Advances in Science and Technology 2017, 100, 73-78, DOI: 10.4028/www.scientific.net/AST.100.73

M. Korgner, J. Bergschneider, J. Neuss, M. Lutz, B. Mahltig, M. Rabe

Functionalization of textiles using 3D printing – add-on technology for textile applications testing new material combinations

Vlakna a Textil (Fibres and Textiles), 23(3), 2016, 106-111

E. Kreikebaum, M. Lutz, M. Doerfel, K. Finsterbusch, A. Ehrmann

3D-Druck von Blindenschrift auf Textil

Melliand Textilberichte 3/2016, 140-141

M. Korgner, J. Bergschneider, M. Lutz, B. Mahltig, K. Finsterbusch, M. Rabe

Possible Applications of 3D Printing Technology on Textile Substrates

IOP Conf. Series: Materials Science and Engineering 141, 012011 (2016)

T. Felbeck, A. Bonk, G. Kaup, S. Munding, T. Grethe, M. Rabe, U. Vogt, U. Kynast

Porous nanoclay polysulfone composites: A backbone with high pore accessibility for functional modifications

Microporous and Mesoporous Materials, Volume 234, 1 November 2016, Pages 107–112

Link: www.sciencedirect.com/science/article/pii/S1387181116302566

B. Mahltig, T. Grethe, H. Haase

Antimicrobial Coatings Obtained by Sol–Gel Method

In Handbook of Sol-Gel Science and Technology, S. 1-27, Mai 2016, Springer

Link: link.springer.com/referenceworkentry/10.1007/978-3-319-19454-7_102-1

T. Grethe, C. Vorneweg, H. Haase, B. Mahltig

Antibacterials: Synthesis, Properties and Biological Activities - Chapter 4: Natural Antibacterials for Technical Applications

Nova Science Publishers, 2016 - 3rd Quarter

ISBN: 978-1-63485-793-2

Link: www.novapublishers.com/catalog/product_info.php

M. O. Weber

Flachstrickmaschinenhersteller zeigen viele technische Anwendungen
Melliand Textilberichte 2/2016, 79-82

T. Grethe, B. Mahltig

Nachhaltige Faservorbehandlung für den Einsatz in Biokompositen
Proceedings of 15. Chemnitzer Textiltechnik-Tagung, Chemnitz 31.5.2016

M. Normann, A. Herrmann, T. Grethe, J. Fiedler, A. Schwarz-Pfeiffer, A. Ehrmann

Energiegewinnung und -speicherung mittels Textilien
Proceedings of 15. Chemnitzer Textiltechnik-Tagung, Chemnitz 31.5.2016

A. Julius, M. Lutz, K. Finsterbusch, A. Ehrmann

Integration of woven fabrics in 3D printed elements to enhance the mechanical properties
Technical Textiles 59, E72-E73 (2016)

A. Julius, M. Lutz, K. Finsterbusch, A. Ehrmann

Integration of woven fabrics in 3D printed elements to enhance the mechanical properties
Technical Textiles 59, E72-E73 (2016)

A. Julius, M. Lutz, K. Finsterbusch, A. Ehrmann

Integration von Geweben in 3D-gedruckte Bauteile zur Verbesserung der mechanischen Eigenschaften
Technische Textilien 59, 84-85 (2016)

B. Hilgenberg, A. Prange, L. Vossebein

Antimicrobial Textiles
Elsevier Ltd. 2016, Woodhead Publishing Series in Textiles, 8. April 2016
ISBN 978-0-08-100576-7, ISBN online 978-0-08-100585-9

B. Mahltig, J. Zhang, M. Huth, A. Fahmi

Microstructuring of metal effect pigments in functional coatings on textile substrates
Journal of the Textile Institute, in press

H.S. Natarajan, H. Haase, B. Mahltig

Polyvinylamine application for functionalization of polyethylene fiber materials
Journal of the Textile Institute, in press

B. Mahltig

Smart hydrophobic and soil-repellent protective composite coatings for textiles and leather
book chapter 10 in: Smart Composite Coatings and Membranes, edited by F. Montemor, Woodhead Publishing, 2016, 261-292, ISBN: 978-1-78242-283-9

B. Mahltig, K. Günther, A. Askani, T. Berger, F. Bohnet, N. Brinkert, M. Cont, C. Giebing, F. Heimlich, Y.

Kyosev, A. Rieschel, T. Weide, J. Wiedemann, J. Zhang, M. Krieg, T. Leisegang
Bekleidung aus organisch/anorganischen Compositefasern zur Minderung von Röntgenexposition
Technische Textilien, 2016, 59, 20-22

B. Mahltig, K. Günther, A. Askani, T. Berger, F. Bohnet, N. Brinkert, M. Cont, C. Giebing, F. Heimlich, Y.

Kyosev, A. Rieschel, T. Weide, J. Wiedemann, J. Zhang, M. Krieg, T. Leisegang
Clothing form organic/inorganic composite fibers for reduction of x-ray exposition
Technical Textiles, 2016, 59, 20-22

A. Herrmann, J. Fiedler, A. Ehrmann, T. Grethe, A. Schwarz-Pfeiffer, T. Blachowicz

Examination of the sintering process dependent micro- and nanostructure of TiO₂ on textile substrates
In: R.B. Wehrspohn, A. Gombert (Eds.): Proceedings of SPIE, 2016, 9898, Photonics for Solar Energy Systems VI, ISBN: 9781510601437

Link: spie.org/Publications/Proceedings/Volume/9898

R. Angelova, P. Reiners, E. Georgieva, H. Konova, B. Pruss, Y. Kyosev
Heat and Mass Transfer through Outerwear Clothing for Protection from Cold: Influence of geometrical, structural and mass characteristics of the textile layers
Textile Research Journal Accepted, 2016

Y. Kyosev (Hg.)
Advances in braiding technology. Specialized techniques and applications
Woodhead publishing in textiles, Number 177 (2016)
store.elsevier.com/product.jsp?locale=en_EU&isbn=9780081009260

Y. Kyosev (Hg.)
Recent Developments in Braiding and Narrow Weaving
Springer International Publishing (2016)
www.springer.com/de/book/9783319299310

Y. Kyosev, A. Cordes
Geometrical Modelling of Tubular and Flat Braids Within the Jamming Limits—Verification and Limitations
In: Yordan Kyosev (Hg.): Recent Developments in Braiding and Narrow Weaving. Cham: Springer International Publishing, S. 23–31 (2016)

Y. Kyosev, S. Lomov, K. Küster
The Numerical Prediction of the Tensile Behaviour of Multilayer Woven Tapes Made by Multifilament Yarns
In: Yordan Kyosev (Hg.): Recent Developments in Braiding and Narrow Weaving. Cham: Springer International Publishing, S. 69–80 (2016)

L. R. Msalilwa, Y. Kyosev, A. Rawal, U. Kumar
Investigation of the Bending Rigidity of Double Braided Ropes
In: Yordan Kyosev (Hg.): Recent Developments in Braiding and Narrow Weaving. Cham: Springer International Publishing, S. 47–57 (2016)

L. R. Msalilwa, Y. Kyosev, A. Rawal, U. Kumar
Tensile Properties of Double Braided Flax Fiber Ropes
In: Yordan Kyosev (Hg.): Recent Developments in Braiding and Narrow Weaving. Cham: Springer International Publishing, S. 59–67 (2016)

Y. Kyosev
Geometrical modelling and computational mechanics tools for braided structures
In: Yordan Kyosev (Hg.): Advances in braiding technology. Specialized techniques and applications
Woodhead publishing in textiles, Number 177 (2016)

Y. Kyosev
Partial carrier occupation of maypole braiding machines
In: Yordan Kyosev (Hg.): Advances in braiding technology. Specialized techniques and applications
Woodhead publishing in textiles, Number 177 (2016)

Y. Kyosev, B. Müller
Lever arm (rapid) braiding
In: Yordan Kyosev (Hg.): Advances in braiding technology. Specialized techniques and applications
Woodhead publishing in textiles, Number 177 (2016)

Y. Kyosev, M. Aurich
Investigations about the braiding angle and the cover factor of braided fabrics using image processing and symbolic math toolbox of Matlab
In: Yordan Kyosev (Hg.): Advances in braiding technology. Specialized techniques and applications
Woodhead publishing in textiles, Number 177 (2016)

B. Duchamp, D. Soulat, X. Legrand, Y. Kyosev

Elaboration and geometrical simulation of triaxial braided reinforcements

Euromech COLLOQUIUM 569: MULTISCALE MODELING OF FIBROUS AND TEXTILE MATERIALS.

Chatenay-Malabry, France, 05.04.2016

Y. Kyosev

Method of the parallel sections for modelling of orthogonally interlaced textile structures at fibre scale

Euromech COLLOQUIUM 569: MULTISCALE MODELING OF FIBROUS AND TEXTILE MATERIALS.

Chatenay-Malabry, France, 05.04.2016

Z. Wu, P. Reiners, Y. Kyosev

FEM modelling of stab penetration test through woven fabrics at different scales

Euromech COLLOQUIUM 569: MULTISCALE MODELING OF FIBROUS AND TEXTILE MATERIALS.

Chatenay-Malabry, France, 05.04.2016

Y. Kyosev

Modelling of braided structures for composites and their mechanical behavior

5. Fachkongress composite simulation, ZAL TechCenter, Hamburg, 25.02.2016

M. Rabe, B. Karmann, F. Terzioglu, J. Schrick

Digitaldruck „brummt“, Nachhaltigkeit bleibt, Industrie 4.0 kommt

Melliand Textilberichte 97 (1), 37–41 (2016)

Thomas Grethe, Thomas Kick, Boris Mahltig

Sustainable controlling of hydrophilic properties of cotton and linen by application of amino acids

The Journal of The Textile Institute, 2016

DOI: 10.1080/00405000.2016.1169664

Link: www.tandfonline.com/doi/full/10.1080/00405000.2016.1169664

L. Vossebein

Krankenhauswäscherei

Krankenhaus- und Praxishygiene, 3. Auflage 2016

ISBN Print: 978-3-437-22312-9 / ISBN e-Book: 978-3-437-29743-4

Taraneh Khademi

Overview of the Sustainable Materials for Composites and Their Industrial Adaptability,

In: Y. Kyosev (Ed.) Recent Developments in Braiding and Narrow Weaving, Springer International

Publishing, 155-175 (2016)

Thomas Grethe, Hajo Haase, Boris Mahltig

Natural Materials for Surface Modification of Cellulosic Narrow Woven Fabrics — Strides Towards Fully

Bio-based Composites

in: Y. Kyosev (Ed.): Recent Developments in Braiding and Narrow Weaving, Springer International

Publishing, 149-154 (2016)

Link: link.springer.com/chapter/10.1007%2F978-3-319-29932-7_15

M. Normann, Y. Kyosev, A. Ehrmann, A. Schwarz-Pfeiffer

Multilayer Textile-Based Woven Batteries

in: Y. Kyosev (Ed.): Recent Developments in Braiding and Narrow Weaving, Springer International

Publishing, 129-136 (2016)

M. O. Weber, S. Aumann, M. Obermann, A. Ehrmann

Renewable Materials for Stab Resistance

in: F. Figueiro, S. Rana (Eds.): Natural Fibres: Advances in Science and Technology Towards Industrial

Applications, RILEM Bookseries, 363-370