



Piotr Przybysz, Ph.D. prof. WULS

CONTACT INFORMATION

Department of Technology and Entrepreneurship in Wood Industry
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EDUCATION

Professional titles and academic degrees	Year	University
Master's degree in engineering, specialization in paper technology	2007	Faculty of Process and Chemical Engineering, Lodz University of Technology
Doctor of Philosophy (technical sciences, chemical engineering)	2019	Faculty of Process and Chemical Engineering, Lodz University of Technology
Habilitation (forest sciences, woodworking)	2013	Faculty of Wood Technology, Warsaw University of Life Sciences

PROFESSIONAL EXPERIENCE

Stanowisko	Rok	Miejsce zatrudnienia
Research and teaching assistant	2010	Institute of Papermaking and Printing, Lodz University of Technology
Researcher	2013	Institute of Papermaking and Printing, Lodz University of Technology
Researcher	2017	Department of Technology and Entrepreneurship in Wood Industry Institute of Wood Sciences and Furniture Warsaw University of Life Sciences – SGGW

DIDACTICS

- Classes conducted: Chemical processing of wood; Environmental Protection; Technology of wood materials;

SCIENTIFIC INTERESTS

- technology for the production of paper and paper products;
- technology for the production of cellulose pulp;
- processing of paper products - modification of surface and absorptive properties;
- alternative fibrous raw materials for paper production (annual raw materials, fast-growing wood raw materials);
- management of the water-mass system of technological lines;
- identification of disturbances and difficulties in technological systems of paper machines.

Research projects:

a) in progress:

- POIR.01.01.01-00-1290/19-00 „OptiLaserClean – optimization of laser cleaning of anilox rollers in the printing industry”
- POIR.01.01.01-00-0084/17 „Development of an innovative technology for removing excess fine and mineral fractions from recycled paper pulp in order to optimize the paper-making capacity of the paper pulp for the production of sanitary and hygienic papers, together with a pilot technological installation at the JACK-POL paper mill”

b) finished:

- POIR.04.01.04-00-0022/18-00 „Active and ecological functional packaging for legume seeds”
- BIOSTRATEG2/298537/7/NCBR/2016 „New packaging using renewable raw materials and innovative paraffin impregnations”
- LIDER/042/407/L-4/12/NCBR/2013 „Investigation of the mechanism and kinetics of fibrillation of cellulose fibers in terms of reducing the specific energy consumption in the grinding process”
- PBS1/A8/16/2013 „The use of a poplar line with an increased biomass growth potential and improved chemical composition of wood in the technology of paper and biofuel production”.

SELECTED PUBLICATIONS FROM RECENT YEARS:

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2023

- Małachowska Edyta, Dubowik Marcin, **Przybysz Piotr**: “Morphological Differences between Virgin and Secondary Fibers”, Sustainability, 2023, vol. 15, nr 10, s.1-10, DOI:10.3390/su15108334, IF = 3,889
- Małachowska Edyta, Lipkiewicz Aneta, Dubowik Marcin, **Piotr Przybysz**: “Which Wastepaper Should Not Be Processed?”, Sustainability, 2023, vol. 15, nr 4, s.1-13, DOI:10.3390/su15042850, IF = 3,889

2022

- Woch Julia, Małachowska Edyta, Korasiak Kamil, Lipkiewicz Aneta, Dubowik Marcin, Chrobak Justyna, Hłowska Jolanta, **Przybysz Piotr**: „Barrier dispersion-based coatings containing natural and paraffin waxes”, Molecules, 2022, 27(3): 930; DOI:10.3390/molecules27030930; IF = 4,412

2021

- Małachowska Edyta, Dubowik Marcin, Lipkiewicz Aneta, Przybysz Kamila, **Piotr Przybysz**, Jusza Jakub, Brendzel Michał: "Laserowe czyszczenie wałków rastrowych - wyjaśniamy sekrety technologii", Świat Druku, 12/2021
- Małachowska Edyta, Dubowik Marcin, Boruszewski Piotr, **Przybysz Piotr**: "Accelerated ageing of paper: effect of lignin content and humidity on tensile properties", Heritage Science, 2021, 9(132); DOI: 10.1186/s40494-021-00611-3; IF = 2,517
- Lipkiewicz Aneta, Małachowska Edyta, Dubowik Marcin, **Przybysz Piotr**: "Impact of shredding degree on papermaking potential of recycled waste", Scientific Reports, 2021, 11, 17528; DOI: 10.1038/s41598-021-96325-4; IF = 4,379

2020

- Małachowska Edyta, Dubowik Marcin, Boruszewski Piotr, Łojewska Joanna, **Przybysz Piotr**: "Influence of lignin content in cellulose pulp on paper durability", Scientific Reports, 2020, 10(19998); DOI: 10.1038/s41598-020-77101-2; IF = 3,998
- Małachowska Edyta, Dubowik Marcin, Lipkiewicz Aneta, Przybysz Kamila, **Przybysz Piotr**: "Analysis of Cellulose Pulp Characteristics and Processing Parameters for Efficient Paper Production", Sustainability, 2020, 12(17), 7219; DOI: 10.3390/su12177219; IF = 2,576
- **Przybysz Piotr**, Dubowik Marcin, Małachowska Edyta, Kucner Marta, Gajadhur Marta, Przybysz Kazimierz: „The Effect of the Refining Intensity on the Progress in Internal Fibrillation and Shortening of Cellulose Fibers” BioResources, 2020, 15(1): 1482-1499; IF = 1,396

Additional information on the websites:

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