



Ph.D. Eng. Edyta Małachowska, Assistant Professor

CONTACT

Department of Technology and Entrepreneurship in Wood Industry
Institute of Wood Sciences and Furniture
Warsaw University of Life Sciences - SGGW
room no. 1/67, building no. 34
159 Nowoursynowska St., Warsaw 02-776, Poland
Phone: +48 22 59 385 45
e-mail: edyta_malachowska@sggw.edu.pl

EDUCATION

Occupational titles and science degrees	Date (year)	Institution
Master engineer of paper and polygraphy technology	2012	Faculty of Chemistry, Institute of Papermaking and Printing, Technical University of Lodz
Doctor of forest sciences in field of wood technology	2018	Faculty of Wood Technology, Warsaw University of Life Sciences - SGGW

PROFESIONAL COMPETENCE

Position	Date (year)	Institution
R&D specialist	2017	Natural Fibers Advanced Technologies
Tutor	2018	Department of Technology and Entrepreneurship in Wood Industry, Faculty of Wood Technology Warsaw University of Life Sciences - SGGW
Assistant professor	2019	
Technologist	2019	Manufacturer of Paper Products Jack-Pol Sp. z o.o.

DIDACTIC

- Lectures: Basis of wood based panels technology; Basis of wood based panels technology I; Basis of wood based panels technology II; Technology of wood based panels; Finishing of wood and wood based panels; Adhesives and gluing techniques.

SCIENCE

Science research:

- paper and pulp technology;
- cellulose technology;
- durability and degradation of paper;
- alternative fiber raw materials for paper production (annual raw materials, fast-growing wood raw materials);
- new technologies in industrial processes of wood processing and other lignocellulosic raw materials;
- printing technology.

Research projects:

a) last realized:

- POIR.01.01.01-00-1290/19-00 *OptiLaserClean* – R&D specialist in research project financed by National Centre of Research and Development;
- POIR.01.01.01-00-0084/17 – technologist in research project financed by National Centre of Research and Development;
- POIR.04.01.04-00-0022/18-00 – R&D specialist in research project financed by National Centre of Research and Development;
- POWR.03.05.00-00-Z033/17 – faculty coordinator in the 2nd edition of trainings of POWER project financed by National Centre of Research and Development;
- BIOSTRATEG2/298537/7/NCBR/2016 – R&D specialist in research project in programme Biostrateg2 financed by National Centre of Research and Development;
- LIDER/042/407/L-4/12/NCBR/2013 – R&D specialist in research project financed by National Centre of Research and Development;
- PBS1/A8/16/2013 – R&D specialist in research project financed by National Centre of Research and Development.

SELECTED SCIENCE PUBLICATIONS FROM LAST YEARS:

ORCID: 0000-0002-0291-9278

2023

- **Małachowska Edyta**, Dubowik Marcin, Przybysz Piotr: "Morphological differences between virgin and secondary fibres", *Sustainability*, 2023, 15(10): 8334; DOI: 10.3390/su15108334; IF = 3,889
- **Małachowska Edyta**, Lipkiewicz Aneta, Dubowik Marcin, Przybysz Piotr: „Which wastepaper should not be processed?”, *Sustainability*, 2023, 15(4): 2850; 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: "Laser cleaning of anilox rollers - explanation of the technology secrets", *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
- Niska Aleksandra, **Małachowska Edyta**: "Influence of coating grammage on the utility properties of coated papers", *Annals of Warsaw University of Life Sciences - SGGW, Forestry and Wood Technology*, 2021, 113: 5-12; DOI: 10.5604/01.3001.0015.0157
- **Małachowska Edyta**, Pawcenis Dominika, Dańczak Jacek, Joanna Paczkowska, Przybysz Kamila: "Paper ageing: the effect of paper chemical composition on hydrolysis and oxidation", *Polymers*, 2021, 13(7), 1029; DOI: 10.3390/polym13071029; IF = 3,426

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

- Nikalaichyk Anhelina, **Małachowska Edyta**: "The influence of screening process parameters on paper properties produced from wastepaper", *Annals of Warsaw University of Life Sciences - SGGW, Forestry and Wood Technology*, 2020, 110: 16-24; DOI: 10.5604/01.3001.0014.3677
- 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

2019

- Niska Aleksandra, **Małachowska Edyta**: "The effect of the addition of primary fibers on the papermaking ability of wastepaper" *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology*, 2019, 108: 104-110
- **Małachowska Edyta**, Lipkiewicz Aneta, Niemczyk Marzena, Dubowik Marcin, Boruszewski Piotr, Przybysz Piotr: „Influences of Fiber and Pulp Properties on Papermaking Ability of Cellulosic Pulps Produced from Alternative Fibrous Raw Materials”, *Journal of Natural Fibers*, DOI: 10.1080/15440478.2019.1697994; IF = 1,252
- Przybysz Buzafa Kamila, **Małachowska Edyta**, Martyniak Danuta, Boruszewski Piotr, Kalinowska Halina, Przybysz Piotr: „Production of Sugar Feedstocks for Fermentation Processes from Selected Fast Growing Grasses”, *Energies*, 2019, 12(16), 3129; IF = 2,707
- Przybysz Buzafa Kamila, Kalinowska Halina, **Małachowska Edyta**, Boruszewski Piotr, Krajewski Krzysztof, Przybysz Piotr: „The Effect of Lignin Content in Birch and Beech Kraft Cellulose Pulps on Simple Sugar Yields from the Enzymatic Hydrolysis of Cellulose”, *Energies*, 2019, 12(15), 2952; IF = 2,707
- **Małachowska Edyta**, Dubowik Marcin: „Comparison of the Beatability for Fast-growing Plants, Softwood, and Hardwood Sources of Fibers” *BioResources*, 2019, 14(2): 3092-3100; IF = 1,396

2018

- Przybysz Kamila, **Małachowska Edyta**, Martyniak Danuta, Boruszewski Piotr, Hłowska Jolanta, Kalinowska Halina, Przybysz Piotr: „Yield of Pulp, Dimensional Properties of Fibers, and Properties of Paper Produced from Fast Growing Trees and Grasses” *BioResources*, 2018, 13(1): 1372-1387; IF = 1,396

2017

- Przybysz Buzafa Kamila, Kalinowska Halina, **Małachowska Edyta**, Przybysz Piotr: „The utility of selected kraft hardwood and softwood pulps for fuel ethanol production” *Industrial Crops and Products*, 2017, 108: 824-830; IF = 3,849
- Przybysz Buzafa Kamila, Kalinowska Halina, Przybysz Piotr, **Małachowska Edyta**: „Conversion of various types of lignocellulosic biomass to fermentable sugars using kraft pulping and enzymatic hydrolysis” *Wood Science and Technology*, 2017, 51: 873-885; IF = 1,706

2016

- Kucner Marta, Przybysz Piotr, Dubowik Marcin, Przybysz Kamila, **Małachowska Edyta**: „The impact of storage conditions of pulp on its susceptibility to refining and properties of fibers” *Journal of International Scientific Publications, Materials, Methods & Technologies*, 2016, 10: 224-231
- Dubowik Marcin, Przybysz Piotr, Kucner Marta, Przybysz Kazimierz, **Małachowska Edyta**: „Effect of refiner load on papermaking potential of cellulosic pulp” *Journal of International Scientific Publications, Materials, Methods & Technologies*, 2016, 10: 231-238

2015

- **Małachowska Edyta**, Przybysz Piotr, Dubowik Marcin, Kucner Marta, Buzafa Kamila: „Comparison of papermaking potential of wood and hemp cellulose pulps” *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology*, 2015,91: 134-137
- Przybysz Piotr, Kucner Marta, Dubowik Marcin, **Małachowska Edyta**, Buzafa Kamila: „Papermaking potential of poplar pulps reinforced with pine fibers” *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology*, 2015, 92: 351-354
- Buzafa Kamila, Przybysz Piotr, Kucner Marta, Dubowik Marcin, **Małachowska Edyta**: „Selection of enzymes for pulp refining” *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology*, 2015, 92: 60-63
- Kucner Marta, Dubowik Marcin, Buzafa Kamila, **Małachowska Edyta**, Przybysz Piotr: „Influence of temperature on Bendtsen air permeability” *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology*, 2015, 92: 234-237
- Dubowik Marcin, Kucner Marta, Buzafa Kamila, **Małachowska Edyta**, Przybysz Piotr: „Effect of refiner load on Bendtsen air permeability” *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology*, 2015, 92: 92-95

More information on websites:

<https://www.linkedin.com/in/edyta-ma%C5%82achowska-7b5092137/>

https://www.researchgate.net/profile/Edyta_Malachowska

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