



**D.Sc. Agnieszka Laskowska (family name Kurowska), assistant professor**

### CONTACT

Department of Wood Science and Wood Preservation  
 Institute of Wood Sciences and Furniture  
 Warsaw University of Life Sciences - SGGW  
 room no. 2/34, building no. 34  
 159 Nowoursynowska St., Warsaw 02-787, Poland  
 Phone: +48 22 59 386 61  
 e-mail: agnieszka\_laskowska@sggw.edu.pl

### EDUCATION

Occupational titles and science degrees	Date (year)	Institution
<b>Master engineer</b> of wood technology	2008	Faculty of Wood Technology Warsaw University of Life Sciences - SGGW
<b>Doctor</b> of forest sciences in field of wood technology	2013	
<b>Doctor (habilitation)</b> of agricultural sciences in field of forest sciences, specialty wood technology	2019	

### PROFESSIONAL COMPETENCE

Position	Date (year)	Institution
Assistant professor	2014	Department of Wood Science and Wood Preservation Institute of Wood Sciences and Furniture Warsaw University of Life Sciences - SGGW
Assistant professor (with habilitation)	2019	

### SELECTED CURRENT FUNCTIONS

- member of the University's Disciplinary Committee for Academic Teachers
- expert, Association of Foresters and Wood Technologists - <http://www.sitlid.pl/>
- member of the Reviewer Board - Forests - <https://www.mdpi.com/journal/forests>
- reviewer: Annals Warsaw University of Life Sciences - Forestry and Wood Technology - <http://wtd.sggw.pl/Content/annals-wuls.html>
- BioResources - <https://bioresources.cnr.ncsu.edu/>
- Coatings - <https://www.mdpi.com/journal/coatings>
- Maderas: Ciencia y Tecnologia - [https://www.scielo.cl/scielo.php?pid=0718-221x&script=sci\\_serial](https://www.scielo.cl/scielo.php?pid=0718-221x&script=sci_serial)
- Materials - <https://www.mdpi.com/journal/materials>
- evaluator of The National Centre for Research and Development - <http://www.ncbir.pl/>

### DIDACTIC

- the lectures: Wood science, Science of exotic wood, Microclimate for wooden cultural objects, Hydrothermal wood processing, Wood drying, Mechanics of materials
- co-author of course book: Selected problems of hydrothermal wood processing in tasks
- training course in the field of structure and properties of domestic and exotic wood

## SCIENCE

### Science research:

- research on the impact of physical and technological factors on the properties of wood and wood products
- structure and properties of densified wood
- study of the relationship between the anatomical structure and the physical, mechanical properties of wood
- hydrothermal wood processing

### Research projects:

- ENCOURAGING training Skills in the Furniture and woodworking Industries through an innovative Simulation-basEd approach - project in programme Erasmus+ (2019-2021)
- CROPTech “Intelligent systems for breeding and cultivation of wheat, maize and poplar for optimized biomass production, biofuels and modified wood” - research project in programme Biostrateg2 financed by National Centre of Research and Development (2016-2019)
- EFFRaWood “Enhancement of utilization affectivity of raw material in production processes in industry”- research project in programme Biostrateg2 financed by National Centre of Research and Development (2016-2018)
- Research implementation project within Regional Operational Programme for the Małopolska Region for 2014 - 2020, “Knowledge economy”, “Industrial research projects carried out for Enerbio Polska Sp. z o.o. in connection with the development of technologies for obtaining innovative wood material” (2017)
- WULS in Warsaw Project for realization of research task within internal competition for young scientific employees, “Influence of thermo-mechanical modification on hygroscopic properties of wood from temperate and tropical zones” (2016-2017)
- WULS in Warsaw Project for realization of research task within internal competition for young scientific employees, “Possibilities of using birch wood (*Betula pendula* Roth) in modern technologies in wood industry” (2014-2015)
- Research implementation project within LIDER program, co-financed by the NCBR: “Innovative lignocellulose biomass renewable in a short cycle based composite materials increasing wood industry competitiveness” (2014 - 2016)
- Research implementation project within “A grant-type competition for business partnerships with scientific institutions” implemented by MSODI (Masovian Network of Advisory and Information Centers in the field of Innovation), co-financed by the European Union within European Social Fund, Priority VIII, The Office of the Marshal of the Mazowieckie Voivodeship in Warsaw, International Development Norway AS: “Development of a new wood product on the basis of a patent of the Warsaw University of Life Sciences concerning the modification of wood by heating and then densifying it” (2014)

## RESEARCH OFFER AND EXPERT ASSESSMENTS

- expertise concerning of quality of woodworks and wood-based panels,
- wood identification,
- assessment and comparison analysis of properties of new wood species and new wooden materials introduction on the market,
- analyzes of projects of innovations and studies of implementations.

## SELECTED SCIENCE PUBLICATIONS FROM LAST 6 YEARS:

**ORCID: 0000-0001-6212-3100**

### 2022

**Bytner O., Drożdżek M., Laskowska A., Zawadzki J. 2022:** Influence of Thermal Modification in Nitrogen Atmosphere on the Selected Mechanical Properties of Black Poplar Wood (*Populus nigra* L.). *Materials* 15 (22): 7949

<https://www.mdpi.com/1996-1944/15/22/7949>

**Bytner O., Drożdżek M., Laskowska A., Zawadzki J. 2022:** Temperature, Time, and Interactions between Them in Relation to Colour Parameters of Black Poplar (*Populus nigra* L.) Thermally Modified in Nitrogen Atmosphere. *Materials* 15 (3): 824

<https://www.mdpi.com/1996-1944/15/3/824>

**Kozakiewicz P., Laskowska A., Drożdżek M., Zawadzki J. 2022:** Influence of Thermal Modification in Nitrogen Atmosphere on Selected Physical and Technological Properties of Wood of European Species with Different Structural Features. *Coatings* 12 (11): 1663

<https://doi.org/10.3390/coatings12111663>

**Bytner O., Laskowska A., Drożdżek M., Zawadzki J. 2022:** Influence of thermal modification in nitrogen atmosphere on the gloss of black poplar (*Populus nigra* L.). Annals of Warsaw University of Life Sciences - SGGW Forestry and Wood Technology 117: 89 - 96

## 2021

**Laskowska A., Majewska K., Kozakiewicz P., Mamiński M., Bryk G. 2021:** Case Study of Anatomy, Physical and Mechanical Properties of the Sapwood and Heartwood of Random Tree *Platyclusus orientalis* (L.) Franco from South-Eastern Poland. Forests 12 (7): 925

<https://www.mdpi.com/1999-4907/12/7/925>

**Laskowska A., Marchwicka M., Trzaska A., Boruszewski P. 2021:** Surface and Physical Features of Thermo-Mechanically Modified Iroko and Tauari Wood for Flooring Application. Coatings 11 (12): 1528

<https://www.mdpi.com/2079-6412/11/12/1528>

**Boruszewski P., Laskowska A., Jankowska A., Klisz M., Mionskowski M. 2021:** Potential Areas in Poland for Forestry Plantation. Forests 12 (10): 1360

<https://www.mdpi.com/1999-4907/12/10/1360>

**Bytner O., Laskowska A., Drożdżek M., Kozakiewicz P., Zawadzki J. 2021:** Evaluation of the Dimensional Stability of Black Poplar Wood Modified Thermally in Nitrogen Atmosphere. Materials 14 (6): 1491

<https://www.mdpi.com/1996-1944/14/6/1491>

**Mańkowski P., Laskowska A. 2021:** Compressive strength parallel to grain of earlywood and latewood of yellow pine. Maderas-Ciencia y Tecnología 23: 57, 1 - 12

[https://scielo.conicyt.cl/scielo.php?pid=S0718-221X2021000100457&script=sci\\_arttext](https://scielo.conicyt.cl/scielo.php?pid=S0718-221X2021000100457&script=sci_arttext)

## 2020

**Laskowska A. 2020:** Impact of Cyclic Densification on Bending Strength and Modulus of Elasticity of Wood from Temperate and Tropical Zones. Bioresources 15 (2): 2869 - 2881

[https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes\\_15\\_2\\_2869\\_Laskowska\\_Cyclic\\_Densification\\_Bending\\_Strength](https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes_15_2_2869_Laskowska_Cyclic_Densification_Bending_Strength)

**Laskowska A. 2020:** The influence of ultraviolet radiation on the colour of thermo-mechanically modified beech and oak wood. Maderas. Ciencia y tecnología 22 (1): 55 - 68

[https://scielo.conicyt.cl/scielo.php?script=sci\\_arttext&pid=S0718-221X2020005000106](https://scielo.conicyt.cl/scielo.php?script=sci_arttext&pid=S0718-221X2020005000106)

**Laskowska A. 2020:** Density profile and hardness of thermo-mechanically modified beech, oak and pine wood. Drewno 63 (205): 25-41

<http://drewno-wood.pl/>

**Laskowska A., Mamiński M. 2020:** The properties of particles produced from waste plywood by shredding in a single-shaft shredder. Maderas. Ciencia y tecnología, 22 (2): 197 - 204

<http://revistas.ubiobio.cl/index.php/MCT/article/view/3951>

**Kozakiewicz P., Drożdżek M., Laskowska A., Grześkiewicz M., Bytner O., Radomski A., Mróz A., Betlej I., Zawadzki J. 2020:** Chemical Composition as a Factor Affecting the Mechanical Properties of Thermally Modified Black Poplar (*Populus nigra* L.). Bioresources 15 (2): 3915-3929

[https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes\\_15\\_2\\_3915\\_Kozakiewicz\\_Chemical\\_Composition\\_Black\\_Poplar](https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes_15_2_3915_Kozakiewicz_Chemical_Composition_Black_Poplar)

**Mańkowski P., Laskowska A. 2020:** Determination of the compressive strength parallel to the grain of resinous yellow pine heartwood. Annals of Warsaw University of Life Sciences - SGGW Forestry and Wood Technology 109: 81 - 85

**Kozakiewicz P., Laskowska A., Ciołek S. 2020:** A study of selected features of Shan Tong variety of plantation paulownia and its wood properties. Annals of Warsaw University of Life Sciences - SGGW Forestry and Wood Technology 111: 116 - 123

## 2019

**Kozakiewicz P., Drożdżek M., Laskowska A., Grześkiewicz M., Bytner O., Radomski A., Zawadzki J. 2019:** Effects of Thermal Modification on the Selected Physical Properties of Sapwood and Heartwood of Black Poplar (*Populus nigra* L.). Bioresources 14 (4): 8391 - 8404

[https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/Biores\\_14\\_4\\_8391\\_Kozakiewicz\\_Thermal\\_Modification\\_Black\\_Poplar](https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/Biores_14_4_8391_Kozakiewicz_Thermal_Modification_Black_Poplar)

**Kozakiewicz P., Brzozowski R., Laskowska A., Zbieć M. 2019:** Acoustic insulation properties of selected African wood species: padouk, bubinga, sapele, Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology 107: 4 - 12

## 2018

**Laskowska A., Sobczak J. W. 2018:** Surface chemical composition and roughness as factors affecting the wettability of thermo-mechanically modified oak (*Quercus robur* L.). Holzforschung 72 (11): 993 - 1000

<https://www.degruyter.com/view/j/hfsg.2018.72.issue-11/hf-2018-0022/hf-2018-0022.xml>

**Laskowska A., Mamiński M. 2018:** Properties of particleboard produced from post-industrial UF- and PF-bonded plywood. European Journal of Wood and Wood Products 76 (2): 427 - 435

<https://link.springer.com/article/10.1007/s00107-017-1266-8>

- Laskowska A., Marchwicka M., Boruszewski P., Wyszyńska J. 2018:** Chemical composition and selected physical properties of oak wood (*Quercus robur* L.) modified by cyclic thermo-mechanical treatment. *BioResources* 13 (4): 9005 - 9019  
<https://bioresources.cnr.ncsu.edu/resources/chemical-composition-and-selected-physical-properties-of-oak-wood-quercus-robur-l-modified-by-cyclic-thermo-mechanical-treatment/>
- Laskowska A., Kozakiewicz P., Zbieć M., Zatoń P., Oleńska S., Beer P. 2018:** Surface characteristics of *Pinus sylvestris* L. veneers produced with a peeling process in industrial conditions. *BioResources* 13 (4): 8342 - 8357  
[https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes\\_13\\_4\\_8342\\_Laskowska\\_Surface\\_Characteristics\\_Scots\\_Pine\\_Veneer](https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes_13_4_8342_Laskowska_Surface_Characteristics_Scots_Pine_Veneer)
- Laskowska A. 2018:** Susceptibility of thermo-mechanically modified Scots pine (*Pinus sylvestris* L.) sapwood and heartwood to colour change under the influence of ultraviolet radiation. *Drvna Industrija* 69 (3): 253 - 264  
<https://hrcak.srce.hr/206358?lang=en>
- Laskowska A., Mamiński M. 2018:** Density profile of particleboard produced from post-industrial waste wood charged with synthetic resin load. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 102: 55 - 60
- Mańkowski P., Laskowska A., Zbieć M. 2018:** Determination of bending strength and modulus of elasticity in the tangential and radial directions of yellow pine (*Pinus ponderosa* Douglas ex C. Lawson). *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 102: 69 - 74
- Laskowska A., Kozakiewicz P., Zbieć M. 2018:** Determination of the colour parameters of iroko wood subjected to artificial UV light irradiation. *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology* 102: 133 - 138
- Laskowska A. 2018:** Assessment of compressive strength and compressive modulus parallel to the grain of oak and tauari wood after thermo-mechanical modification. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 103: 70 - 76
- Laskowska A., Wyszyńska J., Zbieć M. 2018:** Water absorption process in the thermo-mechanically modified iroko and tauari wood. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 104: 496 - 503

## 2017

- Laskowska A. 2017:** The influence of process parameters on the density profile and hardness of surface-densified birch wood (*Betula pendula* Roth). *BioResources* 12 (3): 6011 - 6023  
[https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes\\_12\\_3\\_6011\\_Laskowska\\_Process\\_Parameters\\_Density\\_Profile\\_Hardness\\_Birch\\_Wood](https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes_12_3_6011_Laskowska_Process_Parameters_Density_Profile_Hardness_Birch_Wood)
- Laskowska A., Kozakiewicz P. 2017:** Surface wettability of wood species from tropical and temperate zones by polar and dispersive liquids. *Drvna Industrija* 68 (4): 299 - 306  
<https://hrcak.srce.hr/191940?lang=en>
- Boruszewski P., Jankowska A., Kurowska A. 2017:** Comparison of the structure of juvenile and mature wood of *Larix decidua* Mill. from fast-growing plantations in Poland. *BioResources* 12 (1): 1813 - 1825  
[https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes\\_12\\_1\\_1813\\_Boruszewski\\_Comparison\\_Structure\\_Juvenile\\_Mature\\_Wood](https://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes_12_1_1813_Boruszewski_Comparison_Structure_Juvenile_Mature_Wood)
- Laskowska A., Kozakiewicz P. 2017:** Surface adsorption of selected wood species represented different type of structure. *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology* 100: 72 - 76
- Dobrowolska E., Jankowska A., Laskowska A. 2017:** Wytrzymałość i wybrane właściwości fizyczne drewna poddanego różnym metodom sztucznego starzenia. *Ochrona budynków przed wilgocią, korozją biologiczną i ogniem, praca zbiorowa*, T. 14, pod red. Skowroński W., Polskie Stowarzyszenie Mykologów Budownictwa, Wrocław, 31 - 55

## More information on the websites:

- [https://www.researchgate.net/profile/Agnieszka\\_Laskowska](https://www.researchgate.net/profile/Agnieszka_Laskowska)  
[https://scholar.google.com/citations?user=MgL\\_aWoAAAAJ&hl=pl](https://scholar.google.com/citations?user=MgL_aWoAAAAJ&hl=pl)  
<https://nauka-polska.pl/#/profile/scientist?id=247692&k=f1jyag>

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