

Appendix 4

To the application of Ewa Stefańska-Krzaczek dated 27.09.2023
re.: commencement of the procedure for the conferment
of the post-doctoral degree of doctor habilitated

List of scientific achievements

I. INFORMATION ON SCIENTIFIC OR ARTISTIC ACHIEVEMENTS SET OUT IN ART. 219 PARA 1. POINT 2 OF THE ACT

Points of the Ministry of Science and Higher Education (MNiSW) or the Ministry of Education and Science (MEiN) are given according to the POLON database for publications from 2013 onwards. In the case of lack of points in the POLON database and for earlier works, the points were checked in the Ministry of Science and Higher Education announcement from the year of publication. Impact Factor (IF) from the year of publication was given according to the <https://www.bioxbio.com/> database, five-year Impact Factor (IF5-year) according to the Web of Science database. The number of citations is given according to Web of Science (WoS) or/and Google Scholar (GS); no information means no citations.

1. Scientific monograph, pursuant to art. 219 para 1. point 2a of the Act.

Not applicable/ none

2. Cycle of scientific articles related thematically, pursuant to art. 219 para 1. point 2b of the Act.

2.1. Achievement 1

DYNAMICS AND SPECIES DIVERSITY OF MANAGED SCOTS PINE FORESTS IN CENTRAL EUROPE

List of publications

(1A.1) Stefańska-Krzaczek E., Szymura T. 2015. Species diversity of forest floor vegetation in age gradient of managed Scots pine stands. *Baltic Forestry* 21(2): 233-243.

Points of MNiSW₂₀₁₅=15, points of MEiN₂₀₂₃=70, IF₂₀₁₅=0.530, IF_{5-letni}=1, number of citations according to WoS=6, number of citations according to GS=6

My contribution to the article: independent field data collection, preparation of the database, conception of the article, posing research questions, literature search and collection, calculation of species diversity indices and performance of statistical significance tests, execution of variation partitioning analysis, writing of the text of the article, re-execution of the analyses and new analyses according to the reviewers' comments, correction of the text after the review, function of a corresponding author.

(1A.2) Stefańska-Krzaczek E., Staniaszek-Kik M., Fałtynowicz W. 2016. Positive aspects of clear-cut logging? Ground bryophyte diversity along the age gradient of managed *Pinus sylvestris* stands. *Cryptogamie, Bryologie* 37 (2): 181-197.

DOI: <https://doi.org/10.7872/cryb/v37.iss2.2016.181>

Points of MNiSW₂₀₁₆=20, points of MEiN₂₀₂₃=40, IF₂₀₁₆=1.062, IF_{5-letni}=0.7, number of citations according to WoS=4, number of citations according to GS=5

My contribution to the article: field data collection, preparation of the database, conception of the article, posing the research questions, literature search and collection, performance of all statistical analyses, writing of the text of the article, improvement of the analyses and text after review process, function of a corresponding author.

(1A.3) Stefańska-Krzaczek E., Fałtynowicz W., Szypuła B., Kącki Z. 2018. Diversity loss of lichen pine forests in Poland. *European Journal of Forest Research*, 137(4), 419-431.

DOI: <https://doi.org/10.1007/s10342-018-1113-4>

Points of MNiSW₂₀₁₈=40, points of MEiN₂₀₂₃=100, IF₂₀₁₈=2.354, IF_{5-letni}=2.8, number of citations according to WoS=12, number of citations according to GS=14

My contribution to the article: independent field data collection, preparation of the database, conception of the article, posing research questions, literature search and collection, cooperation in the development of a method for the identification of lichen pine forests in the Polish Vegetation Database, performance of all statistical analyses for local and regional data, writing of the text of the article, improvement of analyses and text after review process, function of a corresponding author.

(1A.4) Stefańska-Krzaczek E., Staniaszek-Kik M., Szczepańska K., Szymura T.H. 2019. Species diversity patterns in managed Scots pine stands in ancient forest sites. PLOS ONE 14(7): e0219620.

DOI: <https://doi.org/10.1371/journal.pone.0219620>

Points of MNiSW₂₀₁₉=100, points of MEiN₂₀₂₃=140, IF₂₀₁₉=2.740, IF_{5-letni}=3.8, number of citations according to WoS=7, number of citations according to GS=12

My contribution to the article: field data collection, preparation of the database, conception of the article, posing the research questions, literature search and collection, performance of all statistical analyses, writing of the text of the article, improvement of the analyses and text after review process, function of a corresponding author.

(1A.5) Stefańska-Krzaczek E., Swacha G., Żarnowiec J., Raduła M. W., Kaćki Z., Staniaszek-Kik, M. 2022. Central European forest floor bryophytes: Richness, species composition, coexistence and diagnostic significance across environmental gradients of forest habitats. Ecological Indicators, 139, 108954.

DOI: <https://doi.org/10.1016/j.ecolind.2022.108954>

Points of MEiN₂₀₂₂=140, points of MEiN₂₀₂₃=200, IF₂₀₂₂=6.9, IF_{5-letni}=6.6, number of citations according to WoS=4, number of citations according to GS=6

My contribution to the article: conception of the article, posing the research questions, literature search and collection, calculation of bryophyte species richness and cover in forest types, determination of environmental variables for analyses, preparation of a database with bryophyte species traits, performance of ordination analyses, determination of groups of co-occurring bryophyte species and numerical analyses of these groups, preparation of maps of group distribution in Poland, writing of the text of the article, improvement of analyses and text after review, function of a corresponding author.

2.2. Achievement 2

GROUPS OF ANCIENT FOREST SPECIES AS INDICATORS OF HIGH SPECIES DIVERSITY

Publication

(2A.1) Stefańska-Krzaczek E., Kaćki Z., Szypuła B. 2016. Coexistence of ancient forest species as an indicator of high species richness. Forest Ecology and Management 365: 12-21.

DOI: <https://doi.org/10.1016/j.foreco.2016.01.012>

Points of MNiSW₂₀₁₆=45, points of MEiN₂₀₂₃=200, IF₂₀₁₆=3.064, IF_{5-letni}=3.8, number of citations according to WoS=23, number of citations according to GS=26

My contribution to the article: development of the concept of the article, posing the research questions, preparation of the list of species necessary for the selection of the dataset from the Polish Vegetation Database, search and collection of literature, cooperation in determining the groups of co-occurring species, performance of all statistical analyses on the basis of the developed groups, writing of the text of the article, improvement of the analyses and the text after the review, function of a corresponding author.

3. List of completed original project, engineering and design, technological or artistic achievements, pursuant to art. 219 para 1. point 2c of the Act.

Not applicable/ none

II. INFORMATION ON SCIENTIFIC OR ARTISTIC ACTIVITY

1. List of published scientific monographs (including the monographs not mentioned in section I.1).

After the award of the PhD degree – items not listed in point I.1

Stefańska-Krzaczek E. 2011. Plant communities of Scots pine stands in the south-eastern part of the Bory Dolnośląskie forest (SW Poland). *Acta Botanica Silesiaca Monographiae* 6: 1-98. Points of MNiSW₂₀₁₁=25, number of citations according to WoS=0, number of citations according to GS=15

Kącki Z., **Stefańska-Krzaczek E.**, Czarniecka M., Łapińska K., Łojko R., Meserszmit M., Swacha G. 2016. Natura 2000 forest habitats in Poland – with a particular Focus on Lower and Opole Silesia. Uniwersytet Wrocławski, s. 1-202. (In Polish)
Points of MNiSW₂₀₁₆=20, number of citations according to WoS=0, number of citations according to GS=2

2. List of published chapters in scientific monographs.

After the award of the PhD degree

Stefańska-Krzaczek E., Anioł-Kwiatkowska J. 2011a. *Chrysanthemum segetum (Asteraceae)* – a disappearing species of Lower Silesia. In: Anioł-Kwiatkowska J., Szczyński E. (eds). Endangered archaeophytes of Lower Silesia. *Acta Botanica Silesiaca Supplementum* 1: 102-104. (In Polish)
Points of MNiSW₂₀₁₁=4, number of citations according to WoS=0, number of citations according to GS=2

Stefańska-Krzaczek E. 2011b. *Conringia orientalis (Brassicaceae)* – an archaeophyte extinct in Lower Silesia. W: Anioł-Kwiatkowska J., Szczyński E. (eds). Endangered archaeophytes of Lower Silesia. *Acta Botanica Silesiaca, Supplementum* 1: 105-107. (In Polish)
Points of MNiSW₂₀₁₁=4, number of citations according to WoS=0, number of citations according to GS=1

Stefańska-Krzaczek E., Anioł-Kwiatkowska J. 2011c. *Lolium remotum (Poaceae)* – an archaeophyte extinct in Lower Silesia. In: Anioł-Kwiatkowska J., Szczyński E. (eds).

Endangered archaeophytes of Lower Silesia. Acta Botanica Silesiaca, Supplementum 1: 159-161. (In Polish)

Points of MNiSW₂₀₁₁=4, number of citations according to WoS=0, number of citations according to GS=0

3. Information about membership in editorial boards preparing scientific monographs for publication.

After the award of the PhD degree

Co-editor of the volume: Kaćki Z., **Stefańska-Krzaczek E.** (red) 2011. Synanthropization in the era of biodiversity change. Acta Botanica Silesiaca 6, 254 ss. (In Polish)

4. List of articles published in scientific journals (including the articles not mentioned in section I.2).

(1A.1), (1A.2), (1A.3), (1A.4), (1A.5) – designations of the articles constituting achievement 1.

(2A.1) – designations of the article constituting achievement 2.

The other items are not listed in point I.2.

Prior to the award of the PhD degree

Scientific publications

Stefańska E. 2004. A new locality of *Teucrium scordium* L. in Lower Silesia. Acta Botanica Silesiaca 1: 133-135. (In Polish)

Points of MNiSW₂₀₀₄=0, number of citations according to WoS=0, number of citations according to GS=0

Stefańska E., Staniaszek M., Wierzcholska S. 2006. New localities of *Campylopus introflexus* (Musci, Dicranaceae) in southwestern Poland. Fragmenta Floristica et Geobotanica Polonica 13(1): 224-227. (In Polish)

Points of MNiSW₂₀₀₆=0, points of MEiN₂₀₂₃=40, number of citations according to WoS=0, number of citations according to GS=2

Stefańska E. 2006. Species composition changes during second succession process on the mesic pine forest site in the Bory Dolnośląskie. Badania Fizjograficzne nad Polską Zachodnią, B, 55: 105-117. (In Polish)

Points of MNiSW₂₀₀₆=0, number of citations according to WoS=0, number of citations according to GS=5

Stefańska E. 2007. Indicators of fresh coniferous and fresh mixed coniferous forest sites in south-western Poland. In: Anderwald D. (red.). Habitats and indicative species in the forests. Studia i Materiały Centrum Edukacji Przyrodniczo-Leśnej, Rogów, 2/3 (16): 141-152. (In Polish)

Points of MNiSW₂₀₀₇=0, number of citations according to WoS=0, number of citations according to GS=5

Stefańska-Krzaczek E. 2008. Influence of forest management on the structure of boreal communities. In: Mazur S., Tracz H. (eds.). Threats to forest ecosystems by man. Recognition - Monitoring - Counteraction. VIII Symposium on the Protection of Forest Ecosystems,

Department of Forest Protection and Ecology SGGW. Dyrekcja Generalna Lasów Państwowych, SGGW, Warszawa: 76-84. (In Polish)

Points of MNiSW₂₀₀₈=0, number of citations according to WoS=0, number of citations according to GS=0

Popular science publications

Stefańska E. 2006. Where does the forest in the Bory Dolnośląskie Forest come from, i.e. the shaping of the structure of forest phytocenoses under the influence of human activity? *Przegląd Leśniczy* 5/2006: 15. (In Polish)

Stefańska E. 2007. In the forest, but not on the tree. *Forum Akademickie* 6/2007: 40-42. (In Polish)

After the award of the PhD degree

Scientific publications

Stefańska-Krzaczek E., Kaćki Z. 2009. Identification of NATURA 2000 forest habitats on the example of Oleśnica Śląska Forest District. *Leśne Prace Badawcze* 70(1): 77-88. (In Polish)
Points of MNiSW₂₀₀₄=6, points of MEiN₂₀₂₃=20, number of citations according to WoS=0, number of citations according to GS=5

Kaćki Z., **Stefańska-Krzaczek E.** 2009. Phytosociological characteristics of the forest habitats of European Ecological Natura 2000 Network in Oleśnica Śląska Forest Inspectorate. *Acta Botanica Silesiaca* 4: 15-42. (In Polish)
Points of MNiSW₂₀₀₉=2, number of citations according to WoS=0, number of citations according to GS=3

Stefańska-Krzaczek E. 2011. Consistency in the classification of oligotrophic forest sites and forest vegetation in Scots pine stands of successive age classes in Bolesławiec Forest. *Leśne Prace Badawcze* 72(1): 53-64. (In Polish)
DOI: 10.2478/v10111-011-0007-8
Points of MNiSW₂₀₁₁=7, points of MEiN₂₀₂₃=20, number of citations according to WoS=0, number of citations according to GS=0

Stefańska-Krzaczek E. 2012. Phytocoenoses of Scots pine forests on the background of changes in classification of mesotrophic sites in Bolesławiec Forest. *Leśne Prace Badawcze* 73(2): 107-119. (In Polish)
DOI: 10.2478/v10111-011-0007-8
Points of MNiSW₂₀₁₂=7, points of MEiN₂₀₂₃=20, number of citations according to WoS=0, number of citations according to GS=1

Stefańska-Krzaczek E. 2012. Species diversity across successional gradient of managed Scots pine stands in oligotrophic sites (SW Poland). *Journal of Forest Science* 58(8): 345-356.
DOI:10.17221/9/2012-JFS 10.17221/9/2012-JFS
Points of MNiSW₂₀₁₂=0, points of MEiN₂₀₂₃=40, IF₂₀₁₂=brak, IF_{5-letni}=1,1, number of citations according to WoS=0, number of citations according to GS=22

Stefańska-Krzaczek E. 2013a. Species richness of drained riparian forests in the urban area of Wrocław. *Sylvan* 157 (5): 366-375. (In Polish)

DOI: <https://doi.org/10.26202/sylvan.2012141>

Points of MNiSW₂₀₁₃=15, points of MEiN₂₀₂₃=140, IF₂₀₁₃=0,295, IF_{5-letni}=0,5, number of citations according to WoS=9, number of citations according to GS=11

Stefańska-Krzaczek E. 2013b. Phytocoenoses of urban riparian forests on the example of the las Osobowicki forest (Wrocław). *Inżynieria Ekologiczna* 33: 119-127. (In Polish)

Points of MNiSW₂₀₁₃=5, points of MEiN₂₀₂₃=20, number of citations according to WoS=0, number of citations according to GS=2

Stefańska-Krzaczek E. 2013c. The pteridophyte flora of managed Scots pine forests in mesic sites in the Bory Dolnośląskie forest. *Acta Botanica Silesiaca* 9: 121-134. (In Polish)

Points of MNiSW₂₀₁₃=3, number of citations according to WoS=0, number of citations according to GS=2

Stefańska-Krzaczek E., Fałtynowicz W. 2013. Increase of *Cladonia* species diversity as a consequence of clear-cutting in nutrient-poor forest sites. *Sylvan* 157 (12): 929-936. (In Polish)

DOI: <https://doi.org/10.26202/sylvan.2013030>

Points of MNiSW₂₀₁₃=15, Points of MEiN₂₀₂₃=140, IF₂₀₁₃=0,295, IF_{5-letni}=0,5, number of citations according to WoS=5, number of citations according to GS=11

Stefańska-Krzaczek E., Pech P. 2014. Vegetation diversity of the Scots pine stands in different forest sites in the Turawa Forest District. *Leśne Prace Badawcze* 75 (1): 77-87. (In Polish)

DOI: 10.2478/frp-2014-0008

Points of MNiSW₂₀₁₄=13, points of MEiN₂₀₂₃=20, number of citations according to WoS=0, number of citations according to GS=2

Stefańska-Krzaczek E., Fałtynowicz W. 2014. Diversity of vegetation in Scots pine monocultures on sandy soils in the Bory Tucholskie. *Sylvan* 158 (2): 99-106. (In Polish)

DOI: <https://doi.org/10.26202/sylvan.2013076>

Points of MNiSW₂₀₁₄=15, points of MEiN₂₀₂₃=140, IF₂₀₁₄=0,322, IF_{5-letni}=0,5, number of citations according to WoS=4, number of citations according to GS=6

Stefańska-Krzaczek E., Podgrudna K. 2015. Floristic and phytocenotic indicators of the conditions of riparian forests in the urban river valley. *Sylvan* 159 (1): 82-88. (In Polish)

DOI: <https://doi.org/10.26202/sylvan.2014022>

Points of MNiSW₂₀₁₅=15, points of MEiN₂₀₂₃=140, IF₂₀₁₅=0,410, IF_{5-letni}=0,5, number of citations according to WoS=3, number of citations according to GS=4

(1A.1) Stefańska-Krzaczek E., Szymura T. 2015. Species diversity of forest floor vegetation in age gradient of managed Scots pine stands. *Baltic Forestry* 21(2): 233-243.

Points of MNiSW₂₀₁₅=15, points of MEiN₂₀₂₃=70, IF₂₀₁₅=0.530, IF_{5-letni}=1, number of citations according to WoS=6, number of citations according to GS=6

(1A.2) Stefańska-Krzaczek E., Staniaszek-Kik M., Fałtynowicz W. 2016. Positive aspects of clear-cut logging? Ground bryophyte diversity along the age gradient of managed *Pinus sylvestris* stands. *Cryptogamie, Bryologie* 37 (2): 181-197.

DOI: <https://doi.org/10.7872/cryb/v37.iss2.2016.181>

Points of MNI_{SW}₂₀₁₆=20, points of MEiN₂₀₂₃=40, IF₂₀₁₆=1,062, IF_{5-letni}=0,7, number of citations according to WoS=4, number of citations according to GS=5

(2A.1) Stefańska-Krzaczek E., Kącki Z., Szypuła B. 2016. Coexistence of ancient forest species as an indicator of high species richness. *Forest Ecology and Management* 365: 12-21.
DOI: <https://doi.org/10.1016/j.foreco.2016.01.012>

Points of MNI_{SW}₂₀₁₆=45, points of MEiN₂₀₂₃=200, IF₂₀₁₆=3,064, IF_{5-letni}=3,8, number of citations according to WoS=23, number of citations according to GS=26

Woziwoda B., Staniaszek-Kik M. **Stefańska-Krzaczek E.** 2017. Assemblages of native bryophytes in secondary forests with introduced *Quercus rubra*. *Nordic Journal of Botany* 35: 111-120.

DOI: <https://doi.org/10.1111/njb.01121>

Points of MNI_{SW}₂₀₁₇=20, points of MEiN₂₀₂₃=40, IF₂₀₁₇=0,9, IF_{5-letni}=0,9, number of citations according to WoS=15, number of citations according to GS=19

Kiewra D., **Stefańska-Krzaczek E.**, Szymanowski M., Szczepańska A. 2017. Local-scale spatio-temporal distribution of questing *Ixodes ricinus* L. (Acari: Ixodidae) – the case study from a riparian urban forest in Wrocław, SW Poland. *Ticks and Tick-borne Diseases* 8: 362-369.

DOI: <https://doi.org/10.1016/j.ttbdis.2016.12.011>

Points of MNI_{SW}₂₀₁₇=30, points of MEiN₂₀₂₃=100, IF₂₀₁₇=2.612, IF_{5-letni}=3,4, number of citations according to WoS=9, number of citations according to GS=11

Górski P., Staniaszek-Kik M., Pawlikowski P., Kłosowski S., **Stefańska-Krzaczek E.**, Domian G. 2017. New distributional data on bryophytes of Poland and Slovakia, 11. *Steciana* 21(3): 97–102.

DOI: 10.12657/steciana.021.019

Points of MNI_{SW}₂₀₁₇=7, number of citations according to WoS=0, number of citations according to GS=0

(1A.3) Stefańska-Krzaczek E., Fałtynowicz W., Szypuła B., Kącki Z. 2018. Diversity loss of lichen pine forests in Poland. *European Journal of Forest Research*, 137(4), 419-431.

DOI: <https://doi.org/10.1007/s10342-018-1113-4>

Points of MNI_{SW}₂₀₁₈=40, points of MEiN₂₀₂₃=100, IF₂₀₁₈=2,354, IF_{5-letni}=2,8, number of citations according to WoS=12, number of citations according to GS=14

Woziwoda B., Krzyżanowska A., Dyderski M.K., Jagodziński A.M., **Stefańska-Krzaczek E.** 2018. Propagule pressure, presence of roads, and microsite variability influence dispersal of introduced *Quercus rubra* in temperate *Pinus sylvestris* forest. *Forest Ecology and Management* 428: 35-45.

DOI: <https://doi.org/10.1016/j.foreco.2018.06.033>

Points of MNI_{SW}₂₀₁₈=45, points of MEiN₂₀₂₃=200, IF₂₀₁₈=3,126, IF_{5-letni}=3,8, number of citations according to WoS=22, number of citations according to GS=29

(1A.4) Stefańska-Krzaczek E., Staniaszek-Kik M., Szczepańska K., Szymura T.H. 2019. Species diversity patterns in managed Scots pine stands in ancient forest sites. *PLOS ONE* 14(7): e0219620.

DOI: <https://doi.org/10.1371/journal.pone.0219620>

Points of MNiSW₂₀₁₉=100, points of MEiN₂₀₂₃=140, IF₂₀₁₉=2,740, IF_{5-letni}=3,8, number of citations according to WoS=7, number of citations according to GS=12

Pavlů V., Kački Z., Kajzrová K., Meserszmit M., Pavlů L., **Stefańska-Krzaczek E.**, Swacha G., Titěra J., Wasiak P. 2021. Grassland biomass as a renewable energy source – Biodiversity – Biomas – Biogas. Czechy, Výzkumný ústav rostlinné výroby, v.v.i., 19 s. (In Polish and in Czech)

Staniaszek-Kik M., Źarnowiec J., **Stefańska-Krzaczek E.** 2021. Diversity and composition of moss guilds on uprooted trees in Central European mountain forests: effects of uprooting components and environmental variables. *Annals of Forest Science*, 78(2), 1-15.

DOI: <https://doi.org/10.1007/s13595-021-01062-3>

Points of MEiN₂₀₂₁=140, points of MEiN₂₀₂₃=140, IF₂₀₂₁=3,775, IF_{5-letni}=3,2, number of citations according to WoS=4, number of citations according to GS=6

(1A.5) Stefańska-Krzaczek E., Swacha G., Źarnowiec J., Raduła M. W., Kački Z., Staniaszek-Kik, M. 2022. Central European forest floor bryophytes: Richness, species composition, coexistence and diagnostic significance across environmental gradients of forest habitats. *Ecological Indicators*, 139, 108954.

DOI: <https://doi.org/10.1016/j.ecolind.2022.108954>

Points of MEiN₂₀₂₂=140, points of MEiN₂₀₂₃=200, IF₂₀₂₂=6,9, IF_{5-letni}=6,6, number of citations according to WoS=4, number of citations according to GS=6

Krzaczek R., **Stefańska-Krzaczek E.** 2022. Distribution of Natura 2000 forest habitats in managed oak forest stands of south-western Poland. *Sylvan*, 166(12): 751-764.

DOI: <https://doi.org/10.26202/sylvan.2022058>

Points of MEiN₂₀₂₂=70, points of MEiN₂₀₂₃=140, IF₂₀₂₂=0,6, IF_{5-letni}=0,5, number of citations according to WoS=0, number of citations according to GS=0

Staniaszek-Kik M., Źarnowiec J., Chmura D., **Stefańska-Krzaczek E.** 2023. Effects of root plates, pits and mounds following windthrow events on the biodiversity of plants and lichens in Central European mountain forests. *Science of The Total Environment*, 898, 165428.

DOI: <https://doi.org/10.1016/j.scitotenv.2023.165428>

Points of MEiN₂₀₂₃=200, IF₂₀₂₃=9,8, IF_{5-letni}=9,6, number of citations according to WoS=0, number of citations according to GS=0

Popular science publications

Śliwiński M., **Stefańska-Krzaczek E.** 2012. Lowland coniferous forests in Poland. *Zielona Planeta* 1(100): 22-24. (In Polish)

Staniaszek-Kik M., **Stefańska-Krzaczek E.** 2014. Bryophytes – small size (not) big use? *Studia i Materiały Centrum Edukacji Przyrodniczo-Leśnej, Rogów* 38: 83-89. (In Polish)

Points of MNiSW₂₀₁₄=7, number of citations according to WoS=0, number of citations according to GS=2

5. List of project, engineering and design as well as technological achievements (including the achievements not mentioned in section I.3).

Not applicable/ none

6. List of public realizations of works of art (including the works not mentioned in section I.3).

Not applicable/ none

7. Information on presentations given at national or international scientific or arts conferences, including a list of lectures delivered upon invitation and plenary lectures.

Prior to the award of the PhD degree

Lectures

VIII Symposium on the Protection of Forest Ecosystems. Rogów 15-16.11.2007. Threats to forest ecosystems by man, recognition – monitoring – counteraction. Lecture presentation: Influence of forest management on the structure of pine communities.

Geobotanical seminar: Spatial structure in plant communities and associated phenomena. Białowieża, 16-17.11.2007. Lecture presentation: Condition and dynamic trends of the pine communities of the Bory Dolnośląskie Forests.

Posters

53rd Congress of the Polish Botanical Society: Polish nature in the European heritage of natural assets. Toruń-Bydgoszcz, 06-11.09.2004. Poster presentation: Structure and functioning of unused mid-forest glades.

National Conference: The role of geobotany in biodiversity conservation. Katowice, 14-15.09.2006. Poster presentation: Human impact on forest communities of the Lower Silesian Forests.

National conference: Active conservation methods in sustainable forestry. Habitats and indicator species in forests. Rogów, 20-21.03.2007. Poster presentation: Indicators of fresh and mixed fresh coniferous forest habitats in Scots pine forests of south-western Poland.

After the award of the PhD degree

Lectures

National Conference: Dynamics of vegetation under anthropopressure and protection - geobotanical workshops. Łódź-Spała, 25-27.06.2009. Co-author of the lecture: Kaćki Z., Stefańska-Krzaczek E. Disturbance index numerical development of the system of phases and degenerative forms of plant communities.

1st National Scientific Conference: Synanthropisation in the era of biodiversity change. Wrocław, 30.06-02.07.2011. Lecture presentation: Changes in species diversity during pine stand growth on oligotrophic habitats in south-western Poland.

XVIII Conference: Contemporary Issues in Forest Education of the Public. Main topic: Forest benefits in science, practice and forest education of society. Rogów, 04-05.12.2013. Co-author of the lecture: Staniaszek-Kik M., Stefańska-Krzaczek E. Bryophytes - small gabarites (not) big benefit?

Forest Biology Seminar. Wrocław, 17.10.2019. University of Wrocław. Lecture presentation: Disappearance of lichen pine forests in Poland.

2nd National Scientific Conference: Challenges of Environmental Protection. Wrocław, 29-30.10.2021. Lecture delivered upon invitation: Protected medicinal plants in the flora of Poland.

The 30th Congress of the European Vegetation Survey (IAVS Working Group). Bratysława, 09-13.05.2022. Wygłoszenie referatu: Forest floor bryophytes in Central European forest habitats.

Posters

XVII International Scientific and Technical Conference: Prevention of pollution, transformation and degradation of the environment. Szczyrk, 15-16.11.2012. Poster presentation: Species diversity of anthropogenically altered floodplain forests of urban areas.

Scientific Conference: Forests against changing human pressures. Rogów 08-09.09.2014. Poster presentation: Stefańska-Krzaczek E., Staniaszek-Kik M., Fałtynowicz W. Participation of bryophytes in the age gradient of a pine stand in fresh coniferous forest habitats.

25th Meeting of the European Vegetation Survey. Rzym, 06-09.04.2016. Co-author of the poster: Kącki Z., Stefańska-Krzaczek E., Czarniecka M., Meserszmit M., Łapińska K., Łojko R., Swacha G., Świerski K. E-silva project – diversity and distribution of Natura 2000 forest habitats in Poland.

25th Meeting of the European Vegetation Survey. Rzym, 06-09.04.2016. Author of the poster: Stefańska-Krzaczek E., Kącki Z., Szypuła B. Coexistence of ancient forest species as an indicator of high species richness.

60th Annual Symposium of International Association for Vegetation Science. Palermo, 20-24.07.2017. Co-author of the poster: Kącki Z., Stefańska-Krzaczek E., Czarniecka M., Łapińska K., Łojko R., Meserszmit M., Swacha G. Formalised classification of Natura 2000 forest habitats in Poland.

26th Meeting of the European Vegetation Survey. Bilbao, 13-16.08.2017. Co-author of the poster: Łapińska K., Kącki Z., Stefańska-Krzaczek E. Recruitment of forest plant species (*Fagetalia*) after anthropogenic disturbances in beech forests.

27th Congress of the European Vegetation Survey. Vegetation survey 90 years after the publication of Braun-Blanquet's textbook – new challenges and concepts. Wrocław 23-26.05.2018. Poster presentation: Stefańska-Krzaczek E., Fałtynowicz W., Szypuła B, Kącki Z. Short-lived nature of lichen forests in Poland.

61st Annual Symposium of International Association for Vegetation Science, Natural Ecosystems as Benchmarks for Vegetation Science. Montana State University, Bozeman, Montana, USA, 22-27.07.2018. Co-author of the poster: Kącki Z., Swacha G., Lengyel A., Chytrý M, Tichý L., Stefańska-Krzaczek E., Czarniecka M., Korzeniak J. Multilevel formalized classification of grasslands (*Molino-Arrhenatheretea*) in Poland.

The 28th Congress of the European Vegetation Survey (IAVS Working Group), 02-06.09.2019. Co-author of the poster: Łapińska K., Kącki Z., Stefańska-Krzaczek E. Recruitment of forest plant species specialists (*Fagetalia*) in managed beech forests.

8. Information on participation in organizational and scientific committees at national or international conferences, including the applicant's function.

After the award of the PhD degree

Conference secretary and member of the organising committee of the 1st National Scientific Conference: Synanthropization in the era of biodiversity change. Wrocław, 30.06-02.07.2011. Co-author of the biography of Professor Jadwiga Anioł-Kwiatkowska, to whom the conference was dedicated: Kącki Z., Stefańska-Krzaczek E. 2011. Problemy synantropizacji - badania i życie naukowe Profesor Jadwiga Anioł-Kwiatkowskiej. In: Kącki Z., Stefańska-Krzaczek E. (eds.), Synantropizacja w dobie zmiany różnorodności biologicznej. Acta Botanica Silesiaca 6: 5-21

Conference secretary and member of the organising committee: 27th Congress of the European Vegetation Survey: Vegetation survey 90 years after the publication of Braun-Blanquet's textbook – new challenges and concepts. 23-26.05.2018.

Lead author of the conference report: Stefańska-Krzaczek E., Kącki Z., Reczyńska K., Swacha G., Szymura M., Szymura T. H., Świerkosz K. 2018. The 27th EVS meeting is behind us. IAVS Bulletin 3 (2018), s. 7-10

9. Information on participation in the works of research teams realizing projects financed through national and international competitions, including the projects which have been completed and projects in progress, and information on the function performed in the team.

Completed projects

Prior to the award of the PhD degree

Main contractor of the promoter grant (N30406431/2479) directed by the supervisor of my doctoral thesis Prof. Dr. Wiesław Fałtynowicz: Natural and anthropogenic transformations of the pine communities of the Bory Dolnośląskie Forest. Duration of the grant: 21.11.2006-20.11.2008.

After the award of the PhD degree

Head and contractor of the project funded by the NCN competition Miniatura 3: Importance of old oak forest stands patches for diversity of managed pine forests. Decision of the NCN Director dated 07.11.2019, ID:451515, Reg. No. 2019/03/X/NZ8/00586. Duration of the project 22.11.2019-21.11.2020.

Contractor (temporary employment in 2021) in the project: Grassland biomass as a renewable energy source – Biodiversity – Biomass – Biogas. Project co-financed by the European Union from the European Regional Development Fund under the Interreg V-A Czech Republic - Poland programme. Project number: CZ.11.4.120/0.0/0.0/16_026/0001092. Duration of the entire project 01.03.2018-28.02.2021.

10. Membership in international or national organizations and scientific societies, including the functions performed by the applicant.

Not applicable/ none

11. Information on internships completed in scientific or artistic institutions, also abroad, including the place, time and duration of the internship and its character.

Prior to the award of the PhD degree

During my doctoral studies, from 14th to 27th April 2004, I was on a practical internship at the Bureau for Forest Management and Geodesy in Brzeg. This internship resulted in analyses in the field of GIS for my doctoral thesis, establishment of cooperation carried out in further stages of scientific work (trainings for employees, expert opinions, analyses of data in the Miniatura 3 project).

After the award of the PhD degree

From 13 March 2023 to 6 April 2023, I was on a research internship in the Department of Environmental Protection and Engineering at the Bielsko-Biała University of Technology and Humanities (at present University of Bielsko-Biała). I did my internship under an agreement between the University of Wrocław and the University of Technology and Humanities. The supervisor of the internship was Dr. Damian Chmura, prof. UBB. The aim of the internship was to broaden and improve my statistical skills and methods of developing results, and to carry out research projects in cooperation with the Department of Environmental Protection and Engineering. The internship has resulted in an expansion of my data processing skills, which I am now using to analyse new, as yet unpublished data. In addition, a joint publication with staff from the Department of Environmental Protection and Engineering has been published: Staniaszek-Kik M., Żarnowiec J., Chmura D., Stefańska-Krzaczek E. 2023. Effects of root plates, pits and mounds following windthrow events on the biodiversity of plants and lichens in Central European mountain forests. *Science of The Total Environment*, 898, 165428.

12. Membership in editorial committees and scientific boards of journals, including the functions performed by the applicant (e.g. editor-in-chief, chairman of scientific board etc.).

After the award of the PhD degree

From 2011 to 2016, I was a secretary and associate editor of the journal *Acta Botanica Silesiaca* (including the *Monographiae* series).

My activities on the editorial board included work on nine volumes:

Acta Botanica Silesiaca 6 (2011), 254 ss.

Acta Botanica Silesiaca 7 (2011), 256 ss.

Acta Botanica Silesiaca 8 (2012), 196 ss.

Acta Botanica Silesiaca 9 (2013), 196 ss.

Acta Botanica Silesiaca 10 (2014), 234 ss.

Acta Botanica Silesiaca 11 (2015), 182 ss.

Acta Botanica Silesiaca 12 (2016), 156 ss.

Acta Botanica Silesiaca Monographiae 7, 144 ss (Kaćki Z. 2012. Variability and long-term changes in the species composition of *Molinia* meadows in Poland: a case study using a large data set from the Polish vegetation Database)

Acta Botanica Silesiaca Monographiae 8, 122 ss. (Fałtynowicz W., Kossowska M. 2016. The lichens of Poland. A fourth checklist)

For issues 6-7 of Acta Botanica Silesiaca, I was also the substantive co-editor (volume 6 was a monograph), and for issues 8 and 10-12 the sole substantive editor.

13. Information on scientific or artistic works reviewed, in particular those published in international journals.

After the award of the PhD degree I performed 17 article reviews for national and international journals.

Acta Botanica Silesiaca, four reviews (2011, 2013, 2016)
Acta Societatis Botanicorum Poloniae (2012)
Studia i Materiały CEPL (2014)
Contemporary Trends in Geoscience (2015)
Folia Geobotanica (2016)
Biological Conservation (2017)
Chemistry. Environment. Biotechnology (2017)
PLOS ONE (2017)
European Journal of Forest Research, two reviews (2018, 2023)
Global Ecology and Conservation (2019)
Canadian Journal of Forest Research (2020)
Ecological Questions (2020)
Environmental Monitoring and Assessment (2021)

14. Information on participation in European or other international programmes.

Not applicable/ none

15. Information on participation in research teams realizing projects other than those defined in section II.9.

After the award of the PhD degree

Contractor in the project and co-author of the publication resulting from the project: e-silva: Natura 2000 forest habitats in Poland – with particular reference to Lower Silesia and Opole region, 2016. Project co-financed by the Provincial Fund for Environmental Protection and Water Management (WFOŚ) in Wrocław, and Opole and carried out in cooperation with the Bureau of Forest Management and Geodesy Forest in Brzeg. <http://www.e-silva.uni.wroc.pl/> (2016).

Contractor in the educational project: Biology for practitioners. Programme for the development of interests and stimulation of educational and cultural activities for listeners of universities of the third age. POWR.03.01.00-00-T068/18. Four cycles of classes: The world of plants in health care (2019, 2021).

Contractor in the educational project: Scientific cognition of the world. Programme for the development of competences necessary for the job market for secondary school students. Powr.03.01.00-00-t067/18. Four cycles of classes: Basics of seed plant morphology (2021, 2022).

Application to the project: Genomic evidence for deciduous forest refugia in the Alps, Carpathians and northern Apennines (responsible person Pau Carnicero Campmany, University of Innsbruck). The project is based on vegetation data from across Europe collected in the European Vegetation Archive (EVA), of which the Polish Vegetation Database (PVD) is a part. From the PVD, 4804 phytosociological images were made available to the project and my participation as a co-author was requested (04.2023).

16. Information on membership in the teams assessing applications for financing of research projects, applications for scientific awards, applications in other competitions of scientific or didactic character.

Not applicable/ none

III. INFORMATION ON COOPERATION WITH SOCIAL AND ECONOMIC ENVIRONMENT

1. List of technological works.

Not applicable/ none

2. Information on cooperation with economic sector.

After the award of the PhD degree

Cooperation with the Data Techno Park company on the project: Regional information platform for inhabitants and self-governments of Lower Silesia e-DolnySlask. The function of a field co-editor consisting in: selection of detailed classifications for the field of botany, creation of thesauri and lists of objects, development of methodology for the work of Authors of articles, management activities; additionally submission of articles and database indexes of research and development character for all (15) natural and landscape complexes in Lower Silesia. (cooperation in 2013-2014).

Cooperation with the company Bureau of Forest Management and Geodesy in Brzeg:

- conducting workshops and developing methodology for Natura 2000 habitat verification (agreement of 02.09.2013),
- participation in SPO II plant cover monitoring (year 2013),
- botanical expertise and preparation of documentation of the Natura 2000 Kamień Śląski area protection task plan (2013),
- inventory of protected vascular plants listed in the Regulation of the Minister of Environment of 09.10.2014 on the protection of plant species in the "Góraźdże III" Mining Area (together with other UWr employees).

3. Obtaining the right of industrial property, including the national or international patents granted.

Not applicable/ none

4. Information on implemented technologies.

Not applicable/ none

5. Information on performed expert analyses or other studies prepared on request of public institutions or entrepreneurs.

Prior to the award of the PhD degree

Kącki Z., Stefańska E. 2007. Inventory of Natura 2000 natural habitats in the area of the Oleśnica Śląska Forest Inspectorate.

Stefańska E. 2007. Report from the field inventory of selected forest divisions in the Węgliniec Forest Inspectorate in terms of Natura 2000 natural habitats.

Stefańska E. 2007. Verification of selected inventoried forest habitats in the following districts of the Miękinia Forest Inspectorate: Mrozów, Kobylniki, Szczepanów, Ratyń, Juszczyń, Chwalimierz, Kąty Wrocławskie, Wawrzeńczyce.

Stefańska-Krzaczek E., 2008. Expert opinion on the project of the area Dolina Oleśnicy i Potoku Boguszyckiego of the Natura 2000 network in Dolnośląskie voivodeship.

After the award of the PhD degree

Stefańska-Krzaczek E., 2013. Botanical expertise and preparation of documentation of the plan of protection tasks of the Natura 2000 area Kamień Śląski.

Kącki Z., Raduła M., Stefańska-Krzaczek E., Swacha G, Świerszcz S., 2017. Inventory of protected vascular plants listed in the Regulation of the Minister of Environment of 09.10.2014 on the protection of plant species in the Mining Area "Góraźdże III".

6. Information on participation in expert and competition teams.

Not applicable/ none

7. Information on artistic projects realized in non-artistic environment.

Not applicable/ none

IV. SCIENTOMETRIC INFORMATION (as of 17.09.2023)

1. Information on the Impact Factor.

Summed Impact Factor from years of publication: **38.785**

Total 5-year Impact Factor: **43.2**

2. Information on the number of citations of the applicant's publications, including a separate list of self-citations.

Web of Science

Number of publications: **16**

Citing Articles: **103**

Citing Articles, without self-citations: **94**

Google Scholar

Number of publications: **39**

Citations: **237** (the database does not calculate self-citations)

3. Information on h-index held.

Web of Science: **7**

Google Scholar: **10**

4. Information on the number of the points awarded by the Ministry of Science and Higher Education.

Total number of the points from years of publication: **1399**

Total number of the points in 2023: **3060**

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(Applicant's signature)