The list of published scientific, reports, and manuscripts, achievements in education, collaboration with Polish and international scientific institutions, organizations, and associations, and promotion of science

Andrzej Białowiec
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I. General information:

- Scientific degree: Doctor of Science in technical sciences, environmental engineering
- First name, Middle name, Family name: Andrzej Stanisław Białowiec
- Date, and place of birth: Feb.03.1975, Gdynia

II. Diplomas, degrees – including the name and location of the institution where the aforementioned were earned, the year, and the title of the PhD thesis.

- 2012 –Habilitation's degree (Doctor of Science) in environmental engineering (scientific specialization: waste management), Gdańsk University of Technology, Faculty of Civil and Environmental Engineering; title of the habilitation thesis: Evapotranspiration of landfill leachate in zero-effluent constructed wetlands. Dissertations and Monographs, 169, the UWM Publishing House, Olsztyn ISBN 978-83-7299-749-4.
- 2005 – a PhD degree in agricultural sciences, field – environment management, specialisation: waste management; University of Warmia and Mazury in Olsztyn, Faculty of Environment Management and Agriculture; title of the doctoral thesis: Municipal landfill leachate treatment using soil-plant systems. The dissertation's mentor Prof. Irena Wojnowska-Baryła, D.Sc., PhD.
- 2000 – a master degree in environmental protection: University of Warmia and Mazury in Olsztyn, Faculty of Environmental Protection and Fisheries, title of the master thesis: Applicability of hydrobotanic, solar-aquatic systems to Polish conditions, a case study of the Stensund Aquaculture Wastewater Treatment Plant in Sweden; the supervisor: Dr. Marek Hasso-Agopsowicz, PhD.
- 1996 – a vocational diploma of a technician chemist in analytical chemistry of food and food products: Post-Secondary School of Chemistry in Gdańsk; title of the diploma thesis: Applicability of mucopolysaccharide and natrium chloride reconstituted collagen to diastase bonding. The diploma thesis was prepared at the Gdańsk University of Technology, the Faculty of Chemistry, under the supervision of Prof. Maria Sadowska, D.Sc., PhD.

III. Information on to-date employment in research and scientific units:

- 2000 – 2005 – a post-graduate student, Faculty of Environmental Protection and Fisheries, University of Warmia and Mazury in Olsztyn.
- 2005 – 2006 – a research assistant at the Department of Biotechnology in Environmental Protection, Faculty of Environmental Protection and Fisheries, University of Warmia and Mazury in Olsztyn.
- 2006 – 2013 – an assistant professor at the Department of Biotechnology in Environmental Protection, Faculty of Environmental Protection and Fisheries, University of Warmia and Mazury in Olsztyn.

- 2012–2016 – a vice-President of Instytut Energii Ltd. in Olsztyn. The Research, and Development Director Position.
- 2013–2014 – an assistant professor at the Wrocław University of Environmental and Life Science, Faculty of Life Sciences and Technology.
- 2013–Present – an associate professor at the Wrocław University of Environmental and Life Science, Faculty of Life Sciences and Technology.
- 2015–Present – a director of Research and Development in Ekopartner-Recykling Ltd.
- 2015–Present –an expert on agricultural, and industrial waste recycling in the Institute of Environmental Protection.

IV. Summary

Completed 40 research project, including 12 financed by governmental sources, and 25 financed by industrial partners. The results obtained in these studies have been published as 115 scientific papers, including: 5 dissertations, 43 articles in reviewed, JCR-indexed journal. The total impact factor is 53,537, with 236 citations, and H-index 8. In total 163published popular-science articles. Obtained 3 patents, including 1 international patent. Completed 18 internships and training courses, including those held in leading international scientific facilities: Stanford University, Tsinghua University, Cardiff University, Politechnica di Milano.Promoted 52 bachelors, and masters. The supervision of 5 Ph.D students.

1. Scientific achievements subject to evaluation in technical sciences

1.1. Authorship and co-authorship of papers published in journals indexed in the Journal Citation Reports (JCR)

Item	Paper
Before the PhD	
A.1.	Białowiec A., Wojnowska-Baryła I., Agopsowicz M. 2003. Effectiveness of leachate disposal by the young willow sprouts *Salix amygdalina*. Waste Management and Research, 21 (6), 557-566. IF_{2003}=0.580
A.2.	Białowiec A., Wojnowska-Baryła I., Agopsowicz M. 2004. Short rotation willow coppice Salix sp. For landfill leachate disposal. Polish Journal of Environmental Studies, 13, 18-21, IF_{2004}=0.366
Before the D.Sc.	
A.3.	Agopsowicz M, Białowiec A., Radziemska M. 2006. Municipal waste disposal in energetic piles in SWECO technology – seven years of operation and what now? Archives of Environmental Protection, 32 (3), 55-66.IF_{2006}=0.0**
A.4.	Krzemieniewski M., Białowiec A., Zieliński M. 2006. The efficiency of the storm water treatment plant for the Warsaw Frederick Chopin Airport. Archives of Environmental Protection, 32 (4), 25-34.IF_{2006}=0.0**
A.5.	Białowiec A., Wojnowska-Baryła I., Agopsowicz M. 2007. The controlling of landfill leachate evapotranspiration from soil-plant systems with willow - *Salix amygdalina* L. Waste Management and Research, 25 (1), 61 - 67.IF_{2007}=0.661
A.6.	Białowiec A., Wojnowska-Baryła I. Agopsowicz M. 2007. The efficiency of evapotranspiration of landfill leachate in the soil–plant system with willow *Salix amygdalina* L. Ecological Engineering, 30, 356-361.IF_{2007}=2.175
A.7.	Agopsowicz M., Białowiec A., Pijarczyk P. 2008. Sewage sludge land disposal effects on groundwater. Archives of Environmental Protection, 34 (2), 73-82.IF_{2008}=0.0**
A.8.	Białowiec A., Bernat K., Wojnowska-Baryła I., Agopsowicz M. 2008. The effect of municipal solid waste mechanical pretreatment on gas productivity. Archives of Environmental Protection, 34 (3), 115-124.IF_{2008}=0.0**
A.9.	Bernat K., Białowiec A., Wojnowska-Baryła I. 2008. The co-fermentation in sewage sludge and waste from oil production. Archives of Environmental Protection, 34 (3), 103-114.IF_{2008}=0.0**
A.10.	Dębowski M., Zieliński M., Krzemieniewski M., Białowiec A. 2008. Fenton reaction influence on the reduction of H_2S generated and putrefaction of municipal wastewater. Annual Set The Environment Protection, 10, 289-300.IF_{2008}=0.0**
A.11.	Cydzik-Kwiatkowska A., Białowiec A., Wojnowska-Baryła I., Smoczyński L. 2009. Characteristic of aerobic granulated activated sludge fed with glycerin fraction from biodiesel production. Archives of Environmental Protection. 35 (2), 41-52.IF_{2009}=0.284
A.12.	Białowiec A., Janczukowicz W., Krzemieniewski M. 2009. Possibilities of management of waste fly ashes from sewage sludge thermal treatment in the aspect of legal regulations. Annual Set The Environment Protection, 11 (2), 959-971.IF_{2009}=0.0**
A.13.	Białowiec A., Kasiński S. 2009. Landfill leachate treatment in soil-plant systems - possibilities of leachate dose rate selection in initial plants growth. Annual Set The Environment Protection, 11 (2), 1267-1278.IF_{2009}=0.0**
A.14.	Bialowiec, A., P.F. Randerson, M. Kopik. 2010. Using fractal geometry to determine phytotoxicity of landfill leachate on willow. Chemosphere 79: 534-540.IF_{2010}=3.155
A.15.	Bialowiec, A., P.F. Randerson. 2010. Phytotoxicity of landfill leachate on willow – *Salix amygdalina* L. Waste Management 30: 1587-1593.IF_{2010}=2.358
A16.	Williams, H.G., A. Białowiec, F. Slater, P.F. Randerson. 2010. Diurnal cycling of dissolved gas concentrations in a willow vegetation filter treating landfill leachate. Ecological Engineering 30: 1680-1685.IF_{2010}=2.203
A.17.	Williams, H.G., A. Białowiec, F. Slater, P.F. Randerson. 2010. Spatial variation of dissolved gas concentrations in a willow vegetation filter treating landfill leachate. Ecological Engineering 36: 1774-1778.IF_{2010}=2.203
A.18.	Białowiec A., Janczukowicz W., Randerson P.F. 2011. Nitrogen removal from wastewater in vertical flow constructed wetlands containing LWA/gravel layers and reed vegetation. Ecological

	Engineering, 37 (6), 897-902.IF$_{2011}$=3.106
A.19.	Randerson P.F., Białowiec A., Moran C. 2011. Oxygen transfer capacity of willow (*Salix viminalis* L.). Biomass and Bioenergy, 35 (5), 2306-2309.IF$_{2011}$=3.646
After the D.Sc.	
A.20.	Bialowiec, A., L. Davies, A. Albuquerque, P.F. Randerson. 2012. Nitrogen removal from landfill leachate in constructed wetlands with reed and willow: redox potential in the root zone. Journal of Environmental Management, 97, 22-27.IF$_{2012}$=3.057
A.21.	Bialowiec, A., L. Davies, A. Albuquerque, P.F. Randerson. 2012. The influence of plants on nitrogen removal from landfill leachate in discontinuous batch shallow constructed wetland with recirculating subsurface horizontal flow. Ecological Engineering, 40, 44-52.IF$_{2012}$=2.958
A.22.	Ostrowska, K., Janczukowicz, W., Białowiec, A., Rodziewicz, J. 2013. Nitrogen removal in vertical-flow filters filled with lightweight aggregate made of fly ashes and gravel. Journal of Environmental Engineering 139 (10), 1266-1272.IF$_{2013}$=1.221
A.23.	Białowiec A., Janczukowicz W., Gusiatin Z.M., Thornton A., Rodziewicz J., Zielińska M. 2014. Recycling potential of air pollution control residue from sewage sludge thermal treatment as artificial lightweight aggregates. Waste Management and Research, 32(3), 221-227.IF$_{2014}$=1.297
A.24.	Bialowiec, A., A. Albuquerque, P.F. Randerson. 2014. The influence of evapotranspiration on vertical flow subsurface constructed wetland performance. Ecological Engineering, 67, 89-94. IF$_{2014}$=2.580
A.25.	Piechocki J., Wiśniewski D., Białowiec A., 2014. Thermal gasification of waste biomass from agriculture production for energy purposes. SUSTAINABLE ENERGY SOLUTIONS IN AGRICULTURE Book Series: Sustainable Energy Developments, Edited by: Bundschuh, J; Chen, G, Volume: 8 Pages: 355-381.
A.26.	Wiśniewski D., Gołaszewski J., Białowiec A. 2015. The pyrolysis and gasification of digestate from agricultural biogas plant. Archives of Environmental Protection, 41, 3, 70-75. IF$_{2015}$=0.919
A.27.	Białowiec A. 2015. Transpiration as landfill leachate phytotoxicity indicator. Waste management,39, 189-96. IF$_{2015}$=3.157
A.28.	Białowiec A., Wiśniewski D., Pulka J. Siudak M., Jakubowski B, Myślak B. 2015. Biodrying of the digestate from agricultural biogas plants. Annual Set the Environment Protection. Vol. 17 Part 2. p. 1554-1568.IF$_{2015}$: 0.808
A.29.	Wiśniewski D., Piechocki J., Białowiec A., , Pulka J. Siudak M., Jakubowski B, Myślak B. 2015. Operational studies of prototype biomass gasification reactor. Annual Set the Environment Protection. Vol. 17 Part 2. p. 1094-1112.IF$_{2015}$: 0.808
A.30.	Rodziewicz J., Mielcarek A., Janczukowicz W., Białowiec A., Gotkowska-Płachta A., Proniewicz M., 2016. Ammonia nitrogen transformations in a reactor with aggregate made of sewage sludge combustion fly ash. Water Environment Research, 88(8), 715-723, IF$_{2015}$=0.865
A.31.	Pulka J., Wiśniewski D., Gołaszewski J., Białowiec A. 2016. Is the biochar produced from sewage sludge a good quality solid fuel? Archives of Environmental Protection, 42(4), 125-134, IF$_{2015}$=0.919
A.32.	Dębska A., Koziołek S., Bieniek J., Białowiec A. 2016. The biogas production potential from Wrocław Zoological Garden. Annual Set the Environment Protection, 18(1), 337-351, IF$_{2015}$: 0.808
A.33.	Stegenta S., Kałdun B., Białowiec A. 2016. Model selection and estimation of kinetic parameters of oxygen consumption during biostabilization of under-size fraction of municipal solid waste, Annual Set the Environment Protection, 18(1), 800-814, IF$_{2015}$: 0.808
A.34.	Białowiec A., Siudak M., Jakubowski B., Wiśniewski D. 2017. The influence of leachate recirculation on biogas production in landfill bioreactor. Environment Protection Engineering, Vol. 43, No. 1, 113-120. IF$_{2015}$: 0,505
A.35.	Filipovici A. Tucu D., Bialowiec A., Bukowski P., Crisan G.C., Lica S., Pulka J., Dyjakon A., Debowski M. 2017. Effect of Temperature and Heating Rate on the Char Yield in Sorghum and Straw Slow Pyrolysis. Revista de Chimie, 68(3), 576-580. IF$_{2015}$: 0.956.
A.36.	Stępień P. Białowiec A. 2017. Mathematical modeling of torrefaction of refuse-derived alternative fuel. Chemical Industry, 95(5). 1162-1166. IF$_{2015}$: 0,367
A.37.	Sobieraj K., Stegenta S., Białowiec A. 2017. The use of respiration activity method for predicting easily biodegradable fractions in organic waste. Chemical Industry, 96, 8, p. 1726-1729, IF$_{2015}$: 0,367
A.38.	Białowiec A., Pulka J., Stępień P., Manczarski P., Gołaszewski J. 2017. The RDF/SRF torrefaction: An effect of temperature on characterization of the product - Carbonized Refuse Derived Fuel. Waste management, 70, 91-100, IF$_{2016}$: 4,030

A.39.	Stępień P., Białowiec A. 2017. Mathematical modeling of wooden biomass torrefaction. Drewno, 60(200), 51-65. IF_{2016}: 0,642
A.40.	Stegenta S., Kałdun B., Sobieraj K., Białowiec A. 2017. Biological activity of stabilized municipal waste fine fraction under long-lasting exposure to atmospheric conditions. Ochrona środowiska. 39(4), 31-40. IF_{2016}: 0,630.
A.41.	Stegenta S., Dębowski M., Bukowski P., Białowiec A. 2018. The influence of foil reactors perforation on greenhouse gases emission rate during aerobic biostabilization of the undersize fraction of municipal wastes. Journal of Environmental Management, 207, 355-365, IF_{2015}: 3,131
A.42.	Stępień P. Pulka JK., Białowiec A. 2018. Estimation of lower heating value and higher heating value of syngas from carbonized sewage sludge gasification. Ochrona środowiska, 40, 45-50.IF_{2016}: 0,630.
A.43.	Stępień P., Pulka J., Serowik M., Białowiec A. 2018. Thermogravimetric and Calorimetric Characteristics of Alternative Fuel in Terms of Its Use in Low-Temperature Pyrolysis Waste and Biomass Valorization, pp. 1-9. $IF2_{016}$: 1,337

* - the number of citations, according to the Web of Science, has been given as of the time of submitting the application submission.

** - the journal indexed in the JRC, but without IF for the year of publishing paper.

1.2. Authorship of a performed original design, construction and technological achievement

Item	The original design, construction and technological achievement
Before the D.Sc.	
B.1.	Białowiec A. 2006. Design and implementation of a new technology and technique using reed (*Pragmites australis*) for treatment of leachate from the landfill in Zakurzewo near Grudziądz. The applicant's contribution = 100% - technology designelaboration, supervising construction works, start up and exploitation of the technology, a report on two-year exploitation of the technology.
B.2.	Białowiec A. 2011. Design and implementation of a technology for municipal solid waste biodrying in the Municipal Solid Waste Reusing Facility (MSWRF) – the installation built in Kosiny Bartosowe, commune Wiśniewo, by the Zakład Usług Komunalnych USKOM sp. z o.o. (the USKOM Municipal Services Enterprise Ltd.) in Mława . The applicant's contribution = 100% - technology design preparation, preparation of the Environmental Impact Assessment Report, supervising the construction, start up and exploitation of the technology.
B.3.	Białowiec A. 2012. Design and implementation of a technology for municipal solid waste biodrying in the Municipal Solid Waste Reusing Facility (MSWRF) – the installation built in Różanka, commune Susz, by the Zakład Usług Komunalnych USKOM sp. z o.o.in Mława. (Installation under construction) The applicant's contribution = 100% - technology design preparation, preparation of the Environmental Impact Assessment Report, supervising the construction.
B.4.	Białowiec A. 2012. Design and implementation of a technology for municipal solid waste biodrying in the Refuse Derived Fuel Production Facility – the installation built in Wawrzynki, commune Żnin, by the Zakład Usług Komunalnych USKOM sp. z o.o. (the USKOM Municipal Services Enterprise Ltd.) in Mława. The applicant's contribution = 100% - technology design preparation.
B.5.	Białowiec A. 2011. Design and implementation of a technology for municipal solid waste biostabilization in the landfill bioreactor – the installation built in Kosiny Bartosowe, commune Wiśniewo, by the Zakład Usług Komunalnych USKOM sp. z o.o. (the USKOM Municipal Services Enterprise Ltd.) in Mława. (Installation under construction) The applicant's contribution = 100% - technology design preparation.
After the D.Sc.	
B.6.	Białowiec A. 09.2012-01.2013. Design and implementation of a technology for municipal solid waste biostabilization in Periodic Anaerobic Bioreactor with capacity 300 000 Mg/y– the installation built in Kosiny Bartosowe, commune Wiśniewo, by the Zakład Usług Komunalnych USKOM sp. z o.o. (the USKOM Municipal Services Enterprise Ltd.) in Mława. The applicant's contribution = 100% - technology design preparation.
B.7.	Białowiec A. 02.2013-09.2013. Design and implementation of a technology for municipal solid waste

	biodrying, and biostabilisation with capacity 90 000 Mg/y – the installation built in Ścinawka Dolna, commune Radków, by the Proekonatura Ltd. in Warsaw.
B.8.	Białowiec A. 03.2013-06.2013. Technological design of a technology for municipal solid waste biodrying for WPO ALBA Wrocław.
B.9.	Białowiec A. 06.2013-09.2014. Design and implementation of a technology for municipal solid waste biostabilization in Periodic Anaerobic Bioreactor with capacity 450 000 Mg/y– the installation built in Różanki, commune Susz, by the Zakład Usług Komunalnych USKOM sp. z o.o. (the USKOM Municipal Services Enterprise Ltd.) in Mława.
B.10.	Białowiec A. 08.2014-02.2015. Design and implementation of a technology for municipal solid waste biodrying, and biostabilisation with capacity 40 000 Mg/y – the installation built in Wołomin, by the Proekonatura Ltd. in Warsaw.
B.11.	Białowiec A. 02.2015-09.2015. Design and implementation of a technology for municipal solid waste biodrying/biostabilization/composting with capacity: biodrying - 60 000 Mg/y, biostabilization 40 000 Mg/y, composting 20 000 Mg/y – the installation built in Stary Las, commune Starogard Gdanski, by the Zakład Utylizacji Odpadów Komunalnych „Stary Las" Sp. z o.o.
B.12.	Białowiec A. 04.2015-07.2015. Design and implementation of a technology for municipal solid waste biodrying/biostabilization with capacity 30 000 Mg/y– the installation built in Ławy, by MPK Pure Home Sp. z o.o., Sp. k.
B.13.	Białowiec A. 09.2015-11.2015. Design and implementation of a technology for municipal solid waste biodrying/biostabilization with capacity 30 000 Mg/y – the installation built in Studzianki, by MPK Pure Home Sp. z o.o., Sp. k.
B.14.	Białowiec A. 01.2016-05.2016. Design of a technology for municipal solid waste biostabilization with capacity 71 000 Mg/y in Lubin for Ekopartner-Lubin Sp. z o.o.
B.15.	Białowiec A. 02.2016-07.2016. Design of a technology for municipal solid waste biostabilization in Periodic Anaerobic Bioreactor with capacity 134 000 Mg/y– the installation in Racula/Zielona Góra for Zakład Gospodarki Komunalnej in Zielona Góra.

1.3. International and national patents

Item	Patent
Before the Ph.D.	
C.1.	Białowiec A., Wojnowska-Baryła I., M. Agopsowicz 2010. Granted national patent „The landfill leachate treatment technology". Patent No 206931. The applicant's contribution Individual = 33% - collaboration in designing the technology and preparing the patent application.
After the D.Sc.	
C.2.	Arent J M, Bialowiec A, Godzwa A, Majcher M, Manczarski P, Templin M. 2012. Granted national patent: Method for producing refuse derived fuel and solid recovered fuel from municipal waste, involves reducing water content of mixture of refuse derived fuel and fraction, and performing cleaning and homogenization to form solid recovered fuel.Patent Number:PL393510-A1
C.3.	Białowiec A., Godzwa A., Midak W., Obrycki T., Wiśniewski D . 2017. Granted International patent: Method of treatment and reducing mass of land-filled municipal waste for e.g. cultivation of flowering plant, involves subjecting waste to bio-drying after initial shredding, in reactor with active aeration with preset air flow . Patent Number: EP3017886-A1

2. Scientific achievements subject to evaluation in all fields of science

2.1. Authorship and co-authorship of monographs, scientific papers published in international journals others than indexed in the database and list given in point 1.1.

Item	Scientific dissertations and diploma thesis
Before the Ph.D.	
D.1.	Białowiec A. 1996. Applicability of mucopolysaccharide and natrium chloride reconstituted collagen to diastasebonding. (a Diploma thesis – Gdańsk University of Technology, Faculty of Chemistry, under supervision of Prof. Maria Sadowska, PhD, D.Sc.
D.2.	Białowiec A. 2000. Applicability of hydrobotanic, solar-aquatic systems to Polish conditions, a

	case study of the Stensund Aquaculture Wastewater Treatment Plant in Sweden (the applicant's master thesis – University of Warmia and Mazury in Olsztyn, Faculty of Environmental Protection and Fisheries, under supervision of Dr. Marek Agopsowicz, Ph.D.
D.3.	Białowiec A. 2005. Municipal landfill leachate treatment using soil-plant systems. (PhD thesis - University of Warmia and Mazuria in Olsztyn, Faculty of Environmental Management and Agriculture, under supervision of Prof. Irena Wojnowska-Baryła, PhD, D.Sc.
Before the D.Sc.	
D.4.	Białowiec A. 2012. Evapotranspiration of landfill leachate in zero-effluent constructed wetlands.Dissertations and Monographs, 169, the UWM Publishing House, Olsztyn ISBN 978-83-7299-749-4.
D.5.	Koziołek S., Słupiński M., Ptak M., Derlukiewicz D., Białowiec A., Mysior M. 2017.Dispersed biogas supplying system – research, design, development. Wydawnictwo Politechniki Wrocławskiej. ISBN 978-83-7493-996-6.

Item	Papers in journals with international circulation
Before the D.Sc.	
E.1.	Krzemieniewski M., Zieliński M., Białowiec A. 2006. The influence of the airports and the planes de-icing on surface water quality. Polish Journal on Natural Sciences, 20 (1), 375-388.
E.2.	Białowiec A., Wojnowska-Baryła I. 2007. The efficiency of landfill leachate evapotranspiration in soil-plant system with reed Phragmites australis, Ecohydrology and Hydrobiology, 7 (3-4), 331-337.
E.3.	Białowiec A., Wojnowska-Baryła I. 2008.The landfill leachate evapotranspiration in soil-plant system with reed - *Phragmites australis*. International Journal of Environment and Waste Management, 2 (3), 526-539.
After the D.Sc.	
E.4.	Białowiec A. 2017. Weight loss by municipal solid waste oversize fraction during long-term storage in bales. Journal of Reverse Logistics, 1(3), 5–11.

Item	Monographs and chapters with international circulation
Before the D.Sc.	
F.1.	Białowiec A., Wojnowska-Baryła I., Randerson P.F. 2011. Evapotranspiration in ecological engineering. In: Łabędzki L. (Eds.), Evapotranspiration, InTech, Rijeka, Croatia, pp. 395-418.
F.2.	Białowiec A. 2011. Hazardous emissions from municipal solid waste landfills. In. Contemporary Problems of Management and Environmental Protection (ed.) Skibniewska K.A., Department of Land Reclamation and Environmental Management, University of Warmia and Mazury in Olsztyn, pp. 7-28.
After the D.Sc.	
F.3.	Białowiec A., Janczukowicz W., Krzemieniewski M., Gusiatin Z. 2012. The LECA from fly ash after sewage sludge treatment: Possibilities of reuse in constructed wetlands. In: Cossu R., Salieri V., Bisinella V. (Eds.) Urban Mining: A global cycle approach to resource recovery from solid waste. CISA Publisher. ISBN: 978-88-6265-001-4, pp. 289-308..
F.4.	Albuquerque A., Randerson P.F., Białowiec A. 2013.The influence of evapotranspiration on wastewater-constructed wetland treatment efficiency. Advances in Environmental Research 1093-0191 New York: Nova Publishers, 2013. Vol. 30 s. 163-200.
F.5.	Wiśniewski D., Pulka J., Białowiec A., 2014. The properties of carbonized digestate from agricultural biogas plant. Eco-energetics - biogas: research, technologies, law and economics in the Baltic Sea region {Eds. Adam Cenian, Janusz Gołaszewski, Tadeusz Noch]. ISBN 978-83-89762-55-9, Gdańsk, Wydawnictwo Gdańskiej Szkoły Wyższej, pp. 106-112.
F.6.	Wiśniewski D., Piechocki J., Białowiec A., Pulka J., Siudak M., Jakubowski B., 2014. Energetic development of hard-to-dispose-of farm and animal waste. Eco-energetics - biogas: research, technologies, law and economics in the Baltic Sea region {Eds. Adam Cenian, Janusz Gołaszewski, Tadeusz Noch]. ISBN 978-83-89762-55-9, Gdańsk, Wydawnictwo Gdańskiej Szkoły Wyższej, pp. 147-153.
F.7.	Stępień P., Pulka J., Białowiec A., 2017. Organic waste torrefaction – a review: reactor systems,

	and the biochar properties. In: Samer M. (Eds.), Pyrolysis, InTech, Rijeka, Croatia ISBN 978-953-51-5268-2

Item	Papers published in international conference proceedings
Before the Ph.D.	
G.1.	Agopsowicz M., Białowiec A. 2003. Researches of ability landfill leachate evapotranspiration of young willow shoots – *Salix amygdalina*.Proceedings of the Ninth International Waste Management and Landfill Symposium in Sardinia, 6-10 October.
Before the D.Sc.	
G.2.	Białowiec A. 2006. Przygotowanie przedmowy oraz edycja podręcznika z warsztatów "The Successful Research and Development (R&D) Grant Application" przeprowadzonych w ramach "The First International Environmental Best Practices Conference", Olsztyn, 7 – 10 sierpień 2006.
G.3.	Białowiec A., Agospowicz M., Wojnowska-Baryła I. 2007. Landfill leachate treatment in evapotranspirative soil-plant systems with reed – *Phragmites australis*. Proceedings of the Eleventh International Waste Management and Landfill Symposium in Sardinia, 1-5 October 2007.
G.4.	Białowiec A., Agospowicz M. 2007. Using phytotoxicological test for landfill leachate dose selection in willow short rotation plantation. Proceedings of the Eleventh International Waste Management and Landfill Symposium in Sardinia, 1-5 October.
G.5.	Białowiec A., Janczukowicz W., Krzemieniewski M., Gusiatin Z. 2009. The fly ash from sewage sludge thermal treatment recovery as LECA for constructed wetlands. The Journal of Solid Waste Technology and Management, Special Issue with the Proceedings of the 24th International Conference on Solid Waste Technology and Management, March 15-18, 2009 Philadelphia, PA U.S.A, 771-779.
G.6.	Białowiec A., Kasiński S. 2009. Evapotranspirative, soil-plant systems with reed (*Phragmites australis*) for landfill leachate treatment – two years operational experiences. The Journal of Solid Waste Technology and Management, Special Issue with the Proceedings of the 24th International Conference on Solid Waste Technology and Management, March 15-18, 2009 Philadelphia, PA U.S.A, 336-344.
G.7.	Bernat, K., A. Białowiec, I. Wojnowska-Baryła. 2010. The biogas production during co-fermentation of sewage sludge and oil waste. Abstract in: Journal of Biotechnology, 150 (Supplement 1), 252.
G.8.	Randerson P.F., Davies L., Albuquerque A., Bialowiec A. 2010. Willows and reeds for bioremediation of landfill leachate: redox potential and oxygen levels in the root zone. Proceedings from the International Conference, Linnaeus Eco-Tech'10, 22-24 Nov, University of Kalmar, Sweden, pp. 877-886.
G.9.	Białowiec A., Janczukowicz W., Krzemieniewski M., Gusiatin Z. 2011. The LECA from fly ash after sewage sludge treatment – possibilities of reuse in constructed wetlands. Proceedings of the Thirteenth International Waste Management and Landfill Symposium in Sardinia, 2-7 October.
G.10.	Białowiec A., Kopik M. 2011. Fractal geometry a tool for phytotoxicity assessment of landfill leachate on willow. Proceedings of the Thirteenth International Waste Management and Landfill Symposium in Sardinia, 2-7 October.
G.11.	Białowiec A., Templin M. 2011. The influenceof modification of municipal solid waste organic fraction on biogas production. Proceedings of the Thirteenth International Waste Management and Landfill Symposium in Sardinia, 2-7 October.
After the D.Sc.	
G.12.	Randerson P., Albuquerque A., Białowiec A. 2012. The influence of evapotranspiration on wastewater constructed wetland treatment efficiency. Proceedings ofthe Linnaeus Eco-Tech 2012 26th-28th of November Kalmar, Sweden.
G.13.	Białowiec A. 2012. Waste to EnergyPolish Technology Transfer. Proceedings of the Poland–Silicon Valley Science and Technology Symposium (PSVTS) 15–17 November 2012, Stanford University, Palo Alto, CA, USA.
G.14.	Wiśniewski D., Gołaszewski J., Białowiec A., Gołaszewski M., 2012. Torrefaction of turkey manure and energy value of the product. International Workshop on biomass Torrefaction for Energy, May 10-11, 21012, Ecole des Mines d'Albi, France.
G.15.	Białowiec A., Pulka J., Stegenta S. 2015. The comparative modeling of mass flow in different options of MBT of MSW in Polish conditions. 15th International Waste Management and Landfill

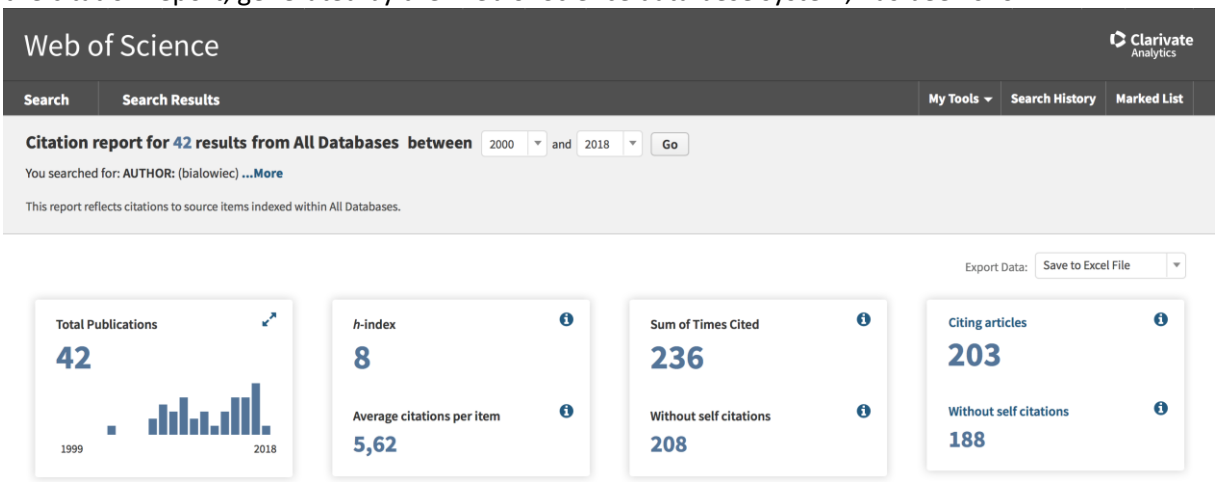
	Symposium : symposium proceedings : executive summaries / Editors: Raffaello Cossu, Pinjing He, Peter Kjeldsen, Yasushi Matsufuji, Debra Reinhart, Rainer Stegmann; S. Margherita di Pula - Caligari, Sardinia, Italy, 5-9 October 2015; IWWG - International Waste Working Group. Book of abstracts, and CD-rom with papers. Book of abstracts page 31, CD-rom A07.
G.16.	Białowiec A., Wiśniewski D., J. Pulka J., Jakubowski B. 2015. The optimization of landfill leachate recirculation in first Polish large scale landfill bioreactor. 15th International Waste Management and Landfill Symposium : symposium proceedings : executive summaries / Editors: Raffaello Cossu, Pinjing He, Peter Kjeldsen, Yasushi Matsufuji, Debra Reinhart, Rainer Stegmann; S. Margherita di Pula - Caligari, Sardinia, Italy, 5-9 October 2015; IWWG - International Waste Working Group. Book of abstracts, and CD-rom with papers. Book of abstracts page 93, CD-rom B03.
G .17.	Pulka J., Bułajewska K., Białowiec A., 2015. The phytotoxicity of biocarbons derived from RDF, and sewage sludge. 15th International Waste Management and Landfill Symposium: symposium proceedings : executive summaries / Editors: Raffaello Cossu, Pinjing He, Peter Kjeldsen, Yasushi Matsufuji, Debra Reinhart, Rainer Stegmann; S. Margherita di Pula - Caligari, Sardinia, Italy, 5-9 October 2015; IWWG - International Waste Working Group. Book of abstracts page 303, CD-rom D16

2.3. Cumulative impact factor of scientific papers according to the Journal Citation Reports (JCR), in the year of publishing.

Cumulative impact factor = 53,537

2.4. Number of citations according to the Web of Science (WoS).

Published papers have been cited 236 times, according to data base of the Web of Science. Below, the citation report, generated by the Web of Science data bese system, has been shown:



2.5. The Hirsch index of published papers according to the Web of Science (WoS).

The Hirsch index according to the Web of Science is 8.

2.6. Leadership of international and national research projects and participation in such projects.

Item	International and national research project
Before the Ph.D.	
H.1.	Pijarczyk P., Białowiec A. 2000-2001. Research on the influence of agricultural use of sewage sludge on groundwater. KBN Grant No. 6 P04G 085 18. The applicant's contribution = 40% - project contractor: research execution, data analysis, and final report preparation.

H.2.	Białowiec A. 2002-2003. Influence of the hydraulic loading rate and pollutant loads on landfill leachate treatment efficiency in a soil-plant system. KBN Grant No. 3 PO4G 044 22. The applicant's contribution = 100% - project leader: research design, research execution, data analysis, and final report preparation.
Before the D.Sc.	
H.3.	Klasa A., Białowiec A. 2005-2007. Solutions for the safe application of wastewater and sludge for high efficient biomass production in Short-Rotation-Plantations. Project in 6th Frame Programme No COLL-CT-2005-012429. The applicant's contribution = 10% - project contractor: collaboration in preparation of advertising materials.
H.4.	Białowiec A. 2007-2009. Research on usefulness of plants for landfill leachate treatment. Grant No N523 083 32/3313. The applicant's contribution = 100% - project leader: research design, research execution, data analysis, and final report preparation.
H.5.	Janczukowicz W., Krzemieniewski M., Białowiec A., Jędrzejewska-Cicińska M. 2007-2009. Measure VII.3 Designing technologies for producing active substrates for plant filters based on by-products from sewage sludge incineration, under the commissioned research project no PBZ-MniSW – 1/3/2006 titled Modern technologies for biomass and biodegradable waste (BBW) to energy-generating gas fuels. The applicant's contribution = 50% - project contractor: collaboration in research design and in research execution, data analysis, and interim and final reports preparation.
H.6.	Wojnowska-Baryła I., Bernat K., Białowiec A. 2007-2009. The efficiency of the methanogenic co-fermentation of sewage sludge and residual waste from plant oil extraction. Grant No. N523 3748 33. The applicant's contribution = 15% - project contractor: collaboration in research design, data analysis and in the final report preparation.
H.7.	Białowiec A. 2009-2010. The role of oxygenation in wetland microcosms and willow biomass production plantations for polluted water treatment – experimental and modelling approaches to investigate efficiency and process. A research project performed as a part of scientific fellowship in the Cardiff School of Bioscience, Cardiff University. Grant No. 219/MOB/2008/0. The applicant's contribution = 100% - project leader: research design, research execution, data analysis, and final report preparation.
After the D.Sc.	
H.8.	Wisniewski D., Białowiec A. 2013. „Research and implementation of innovative Periodic anaeoribic Bioreactor plant". Project number: ROW-III-306/2012. The applicant's contribution = 50% - project contractor: collaboration in research design and in research execution, data analysis, and interim and final reports preparation.
H.9.	Białowiec A. 2013-2014: ERANET: SE Bioemethane. Small but efficient – Cost and Energy Efficient Biomethane Production. The applicant's contribution = 50% - project leader: collaboration in research design and in research execution, data analysis, and interim and final reports preparation.
H.10.	Białowiec A. 2014 – 2015. Pioneer into Practice. Climate KIC, program ENT_PIP: Pioneers-2014, Project numer: AREP0047_2014-3.4-174_P127-02, The applicant's contribution = 100% - project leader: research design, research execution, data analysis, and final report preparation.
H.11.	Białowiec A. Project title: "Innovative organic waste conversion technological line into innovative, high-quality solid fuels". Project number: UDA-POIR.01.01.01-00-0334/15, founded by Intelligent Development Operational Program for years 2014-2020, call 1/1.1./2015 European Regional Development Found.

2.7. Reports delivered at international and national scientific conferences.

Kod	Tytuł referatu i miejsce międzynarodowej konferencji
Before the Ph.D.	
I.1.	Agopsowicz M., Białowiec A.. 2003. Researches of Ability Landfill Leachate Evapotranspiration of young willow shoots – *Salix amygdalina*".The Ninth International Waste Management and Landfill Symposium in Sardinia, 6 – 10 October.

Before the D.Sc.	
I.2.	Białowiec A., Wojnowska-Baryła I. 2005. The efficiency of landfill leachate evapotranspiration in soil-plant system with reed *Phragmites australis*. Workshop on Wastewater Treatment In Wetlands, September 10 – 17, Starbienino, Poland.
I.3.	Białowiec A. 2006. Członek komitetu organizacyjnego "The First International Environmental Best Practices Conference, 7 – 10 sierpień, Olsztyn.
I.4.	Białowiec A. 2006. Prowadzący sesję "Waste Management" w ramach konferencji "The First International Environmental Best Practices Conference", 7 – 10 sierpień, Olsztyn.
I.5.	Białowiec A. 2006. Organizacja warsztatów nt. "The Successful Research and Development (R&D) Grant Application" w ramach "The First International Environmental Best Practices Conference", 7 – 10 sierpień, Olsztyn.
I.6.	Białowiec A. 2006. Prowadzący sesję "Environmental monitoring" w ramach konferencji The 7th International Scientific Conference Sakharov's Readings 2007: Environmental Problems of the XXI Century 17-18 May, Minsk, Republic of Belarus.
I.7.	Białowiec A., Zieliński M., Dębowski M. 2006. Water and wastewater oxygenation by submerged plant *Elodea densa*. The First International Environmental Best Practices Conference, 7 – 10 August Olsztyn.
I.8.	Dębowski M., Zieliński M., Białowiec A. 2006. Fenton reaction influence on the reduction of odours generated at putrefaction of municipal wastewater. The First International Environmental Best Practices Conference, 7 – 10 August Olsztyn.
I.9.	Białowiec A., Agopsowicz M. 2006. Biological treatment of municipal solid wastes in energetic piles, an assessment of the intensity of occurring processes (MSW treatment facility in Zakurzewo near Grudziądz, Poland). The First International Environmental Best Practices Conference, 7 – 10 August Olsztyn.
I.10.	Białowiec A. 2007. Zero-effluent constructed wetlands for wastewater treatment. The 7th International Scientific Conference Sakharov's Readings: Environmental Problems of the XXI Century, 17-18 May, Minsk, Republic of Belarus.
I.11.	Białowiec A., Agopsowicz M. 2007. The possibilities of municipal solid waste landfills monitoring according to biogas potential assessment, and recovery of waste materials. The 7th International Scientific Conference Sakharov's Readings: Environmental Problems of the XXI Century, 17-18 May, Minsk, Republic of Belarus.
I.12.	Białowiec A. 2007. The monitoring of groundwater quality during land application of sewage sludge. The 7th International Scientific Conference Sakharov's Readings: Environmental Problems of the XXI Century, 17-18 May, Minsk, Republic of Belarus.
I.13.	Białowiec A., Agopsowicz M., Wojnowska-Baryła I. 2007. Landfill leachate treatment in evapotranspirative soil-plant systems with reed – *Phragmites australis*. The Eleventh International Waste Management and Landfill Symposium in Sardinia, 1-5 October.
I.14.	Białowiec A., Agopsowicz M. 2007. Using phytotoxicological test for landfill leachate dose selection in willow short rotation plantation. The Eleventh International Waste Management and Landfill Symposium in Sardinia, 1-5 October.
I.15.	Białowiec A., Bernat K., Wojnowska-Baryła I., Agopsowicz M. 2007. The effect of municipal solid waste mechanical pretreatment on gas productivity. International Workshop – Pollutant pathways and mitigation strategies of their impact on the ecosystems, Kazimierz Dolny, Poland.
I.16.	Bernat K., Białowiec A., Wojnowska-Baryła I. 2007. The co-fermentation in sewage sludge digesters. International Workshop – Pollutant pathways and mitigation strategies of their impact on the ecosystems, Kazimierz Dolny, Poland.
I.17.	Białowiec A., Kasiński S. 2008. Transpiration, an indicator of reed (*Phragmites australis*) behavior during landfill leachate treatment. Seminar constructed wetlands for wastewater treatment and reuse(hosted by the EVAWET project – PTDC/AMB/73081/2006), 19-20 September, Kobyla Gora, Poland.
I.18.	Białowiec A., Kasiński S. 2009. Evapotranspirative, soil-plant systems with reed (*Phragmites australis*) for landfill leachate treatment – two years operational experiences. The 24th International Conference on Solid Waste Technology and Management, March 15-18, Philadelphia, PA U.S.A.
I.19.	Białowiec A., Janczukowicz W., Krzemieniewski M. 2009. The fly ash from sewage sludge thermal treatment recovery as LECA for constructed wetlands. The 24th International Conference on Solid Waste Technology and Management, March 15-18, Philadelphia, PA U.S.A.

I.20.	Białowiec A., Randerson P.F. 2009. Oxygen transfer capacity of willow shoots. Seminar constructed wetlands for wastewater treatment and reuse(hosted by the EVAWET project – PTDC/AMB/73081/2006), 22-24 June, Covillha, Portugal.
I.21.	Randerson P.F., Białowiec A. 2009. Plants, source of oxygen in constructed wetlands for landfill leachate treatment – experiment construction. Seminar constructed wetlands for wastewater treatment and reuse(hosted by the EVAWET project – PTDC/AMB/73081/2006), 22-24 June, Covillha, Portugal.
I.22.	Białowiec A., Janczukowicz W., Krzemieniewski M., Gusiatin Z. 2009. Sorption activity of LECA from fly ash after sewage sludge thermal treatmentSeminar constructed wetlands for wastewater treatment and reuse(hosted by the EVAWET project – PTDC/AMB/73081/2006), 22-24 June, Covillha, Portugal.
I.23.	Białowiec, A., P.F. Randerson. 2010. Zero Discharge Systems – a case study. Constructed Wetland Association 6th Annual Conference, Wastewater Management and the Application of Constructed Wetlands, 22-24 June, Stoneleigh Park, Warwick, UK.
I.24.	Bernat, K., A. Białowiec, I. Wojnowska-Baryła. 2010. The biogas production during co-fermentation of sewage sludge and oil waste. 14th International Biotechnology Symposium and Exhibition, 14-18 September, Rimini, Italy.
I.25.	Bialowiec, A., Davies L., Albuquerque A., Randerson P.F. 2010. Nitrogen removal under anoxic conditions in reed, willow and LECA recirculating model systems for leachate treatment. International Seminar, 30-31 August, Gdansk University of Technology, Gdansk, Poland.
I.26.	Bialowiec, A, Górna-Białowiec M., Randerson P.F. 2010. Oxygen balance in the root zone of willow plants – responses to changes in environmental conditions. International Seminar, 30-31 August, Gdansk University of Technology, Gdansk, Poland.
I.27.	Randerson, P.F., L. Davies, A. Bialowiec, H.G. Williams. 2010. Oxygenation by willow roots in lab microcosms and constructed wetlands. Presentation to Constructed Wetland Association meeting, 27 April, Slimbridge, Glos.
I.28.	Randerson, P.F., Davies L., Albuquerque A., Bialowiec A. 2010. Willows and reeds for bioremediation of landfill leachate: redox potential and oxygen levels in the root zone. International Conference, Linnaeus Eco-Tech'10, 22-24 November, University of Kalmar, Sweden.
I.29.	Białowiec A., Janczukowicz W., Krzemieniewski M., Gusiatin Z. 2011.. The LECA from fly ash after sewage sludge treatment – possibilities of reuse in constructed wetlands. The Thirteenth International Waste Management and Landfill Symposium in Sardinia, 2-7 October.
I.30	Białowiec A., Kopik M. 2011. Fractal geometry a tool for phytotoxicity assessment of landfill leachate on willow. The Thirteenth International Waste Management and Landfill Symposium in Sardinia, 2-7 October.
I.31.	Białowiec A., Templin M. 2011. The influenceof modification of municipal solid waste organic fraction on biogas production. The Thirteenth International Waste Management and Landfill Symposium in Sardinia, 2-7 October.
After D.Sc.	
I.32.	Białowiec A. 2012. Waste to EnergyPolish Technology Transfer. Proceedings of the Poland–Silicon Valley Science and Technology Symposium (PSVTS) 15–17 November 2012, Stanford University, Palo Alto, CA, USA.
I.33.	Randerson P., Albuquerque A., Białowiec A. 2012. The influence of evapotranspiration on wastewater constructed wetland treatment efficiency. Proceedings ofthe Linnaeus Eco-Tech 2012 26th-28th of November Kalmar, Sweden.
I.34.	Wiśniewski D., Gołaszewski J., Białowiec A., Gołaszewski M., 2012. Torrefaction of turkey manure and energy value of the product. International Workshop on biomass Torrefaction for Energy, May 10-11, 21012, Ecole des Mines d'Albi, France.
I.35.	Białowiec A., Wiśniewski D., Julka P., 2014. The content of biomass in oversize fraction of municipal solid waste being a substrate for RDF production. RENEWABLE ENERGY SOURCES: engineering, technology, innovation – science conference, June 25-27 – Krynica.
I.36.	Wiśniewski D., Gołaszewski J., Białowiec A., Gołaszewski M., 2014. Torrefaction of turkey manure and energy value of the product. RENEWABLE ENERGY SOURCES: engineering, technology, innovation – science conference, June 25-27 – Krynica.
I.37.	Wiśniewski D., Pulka J., Białowiec A. 2014. The properties of carbonized digestate from agricultural biogas plant. IV Baltic Biogas Forum. 11-12 September, Polish Academy of Sciences, Gdańsk, Poland.

I.38.	Białowiec A., Siudak M., Jakubowski B., Wiśniewski D. 2014. The influence of leachate recirculation on biogas production and calorific values generated in sequence anaerobic bioreactor. IV Baltic Biogas Forum. 11-12 September, Polish Academy of Sciences, Gdańsk, Poland.
I.39.	Białowiec A., Woźniakowski W., Bordoszewski P.. 2014. Szybkość biostabilizacji tlenowej frakcji podsitowej odpadów komunalnych w tunelach foliowych. Międzynarodowa Konferencja Naukowo-Techniczna pod Patronatem Honorowym Ministra Rolnictwa i Rozwoju Wsi, Marszałka Województwa Śląskiego „Odpowiedzialnie twórzmy instalacje odnawialnych źródeł energii": materiały konferencyjne-referaty; Ustronie, 12-13.05.2014r.
I.40.	Białowiec A., Pulka J., Stegenta S. 2015. The comparative modeling of mass flow in different options of MBT of MSW in Polish conditions. 15th International Waste Management and Landfill Symposium, S. Margherita di Pula – Caligari, Sardinia, Italy, 5-9 October.
I.41.	Białowiec A., Wiśniewski D., J. Pulka J., Jakubowski B. 2015. The optimization of landfill leachate recirculation in first Polish large scale landfill bioreactor. 15th International Waste Management and Landfill Symposium, S. Margherita di Pula – Caligari, Sardinia, Italy, 5-9 October.
I.42.	Błatoń K., Wiśniewski D., Siudak M., Stępień P., Tomaszewski M., Gaze P., Brączkowski A., Białowiec A., 2015. Technologiczne aspekty zgazowania pofermentu z biogazowni rolniczych. XIII Międzynarodowa Konferencja Naukowa: Teoretyczne i aplikacyjne problemy inżynierii Rolniczej; Polanica Zdrój, 16-19 czerwca 2015 r.
I.43.	Białowiec A., Wiśniewski D., Piesik W., 2015. Przetwarzanie odpadów w beztlenowym bioreaktorze ANABIOREC. XIII Międzynarodowa Konferencja Naukowa: Teoretyczne i aplikacyjne problemy inżynierii Rolniczej; Polanica Zdrój, 16-19 czerwca 2015 r.
I.44.	Białowiec A., Piesik W., 2016. Energetically passive Municipal Solid Waste Treatment Plant. 3rd International Conference Renewable Energy Sources: engineering, technology, innovation. 17-20, 2016 Krynica.
I.45.	Kałdun B., Stegenta S., Białowiec A. 2016. Kinetics of spent grain torrefaction. 3rd International Conference Renewable Energy Sources: engineering, technology, innovation. 17-20, 2016 Krynica.
I.46.	Białowiec A., Pulka J., Stępień P., Wiśniewski D., Manczarski P., Gołaszewski J. 2016. The RDF torrefaction: an effect of temperature on characterization of the product – carbonized derived fuel. 3rd International Conference Renewable Energy Sources: engineering, technology, innovation. 17-20, 2016 Krynica.
I.47.	Białowiec A., Piesik W., Wiśniewski D. 2016. Periodical anaerobic bioreactor as an installation for municipal waste processing. Baltic Biogas Forum, Eco-Energetics-Biogas: Research, technologies, and economics n the Baltic Sea Region, 16-17.06 2016, Gdańsk, Poland.
I.48.	Koziołek S., Pulka J., Białowiec A., 2016. Siloxanes content in biogas from different sources. Baltic Biogas Forum, Eco-Energetics-Biogas: Research, technologies, and economics n the Baltic Sea Region, 16-17.06 2016, Gdańsk, Poland.

3. Achievementsin education, promotion of science andinternational collaboration for evaluation in all fields of science

3.1. Participation in European projects and other international and national projects.

Item	Name and localization of the international project
Before the Ph.D.	
J.1.	Organizing the course „Study Abroad" held at the Faculty of Environmental Protection and Fisheries for students from Ohio State University, Columbus, USA, June 2003.
J.2.	Organizing the course „Study Abroad" held at the Faculty of Environmental Protection and Fisheries for students from Ohio State University, Columbus, USA, June 2004.
Before the D.Sc.	
J.3.	Participation in Erasmus Programme. A visit at the Department of Civil Engineering and Architecture, University of Beira Interior, Covilha, Portugal, from 15.05.2011 to 22.05.2011. The aim of the visit was to deliver 8 hours of lectures to students on phytoremediation of landfill leachate, waste management, modelling of biogas production.
After the D.Sc.	
J.4.	Organization of leactures cycle of Prof. Tomasz Arciszewski from George Mason University titled. „Inventive Engineering", under financial 14upport ofVISITING PROFESSORS

	FOUNDS“SCIENTIAE WRATISLAVIENSES”.

3.2. Internships in foreign or Polish scientific or academic centres

Item	Name and place of the internship
Before the Ph.D.	
K.1.	The course „Our Common Baltic” conducted in the Stensund Ecological Center at the Stensund Folk College in Sweden, June 1999
K.2.	A professional and research internship at the Stensund Wastewater Aquaculture in Sweden, July 1999.
K.3.	The course „Resource and Ecological Economics” organized by NOVA-BA in St. Petersburg, Russia, November 1999.
K.4.	Sommersprachkurs der Fachhochschule Offenburg „Deutsch als Fremdsprache“ in 3 – 27 September 2001. Kursstufe: Grundstufe I
K.5.	An internship at the Provincial Environment Protection Inspectorate in Olsztyn, as part of the elaboration of methods for sample preparation and heavy metal analyses with the ASA method, May 2002.
K.6.	A training course „New obligations of entrepreneurs and administration organs in the scope of waste management according to new legal regulations” (laws and executive orders)”, Osieczany near Myślenice, 8-10 May 2002.
K.7.	An internship at Fachhochschule in Offenburg, Germany, from 12.06.2002 to 5.07.2002; the purpose of the internship was to use the ICP-AES method for determination of contamination in soil, water and plant samples collected during own research in Poland.
K.8.	An internship at Fachhochschule in Offenburg, Germany, from 7.07.2003 to 22.07.2003; the purpose of the internship was to use the ICP-AES method for determination of contamination in soil, water and plant samples collected during own research in Poland.
K.9.	Completing the course AutoCad2000i level 1 at an Autodesk Authorized Training Centre, 25.11.2002.
Before the D.Sc.	
K.10.	A basic gas chromatography course, organized by the Chair of Analytical Chemistry, Gdansk University of Technology, 2006.
K.11.	An individual, training course in preparation of samples taken from the environment for analyses with gas chromatography techniques, organized by the Chair of Analytical Chemistry, Gdańsk University of Technology, 2006.
K.12.	A fellowship in a foreign research centre, i.e. Cardiff School of Biosciences, Cardiff University, from 01.02.2009 to 31.07.2010. The tile of the research project “The role of oxygenation in wetland microcosms and willow biomass production plantations for polluted water treatment – experimental and modelling approaches to investigate efficiency and process”. The internship was financed based on the decision of the Minister for Science and Higher Education no 219/MOB/2008/0 of 11 July 2008, from the programme “Support for international mobility of scientists”, announced in the Ordinance of the Minister for Science and Higher Education of 7 May 2008 concerning the programme “Support for international mobility of scientists” (Journal of Law No 84 item 510).
K.13.	An internship in a foreign research centre, i.e. the Department of Civil Engineering and Architecture, University of Beira Interior (Portugal) from 01.08.2010 to 31.08.2010, financed from the EVAWET project – PTDC/AMB/73081/2006.
K 14.	A fellowship at the Cardiff School of Biosciences, Cardiff University, from 03.02.2011 to 17.02.2011, under the project „Expanding and improving the educational offer dedicated to people outside universities, and improving the quality of education and competences of academic teachers”. Measure 6. ‘National and international study trips for the scientific staff at the Faculty of Biology, the UWM in Olsztyn’. The title of the project Eurobiol.
After the D.Sc.	
K.15.	The course „Science Management and Commercialization”, held from OCT 15 to Dec 14 2012 at the Stanford University, USA, financed from Poland’s Top 500 Innovators Program.
K.17.	Fellowship in L.E.A.P., Politechnica di Milano from Sep 29 to Oct 10 2014 financed from Pioneer

	into Practice Programme.
K.18.	A fellowship at the Tsinghua University, Beijing, China from Jan 29 to Mar 03 2015 as a part of the project: UDA-POKL.04.03.00-00-164/12-00.
K.19.	Fulbright Senior Award. Iowa State University 01.08.2018-30.04.2019.

3.3. Reviewing international or national projects, or publications in international or national journals.

Item	Reviews
L.1.	Archives of Environmental Protection – 2 reviews
L.2.	Bioresource Technology –2reviews
L.3.	Chemical Engineering Journal – 2 reviews
L.4.	Ecological Engineering – 12reviews
L.5.	Environmental Pollution – 1 review
L.6.	International Journal of Environment And Waste Management – 4 reviews
L.7.	Inżynieria I Ochrona Środowiska – 1 review
L.8.	Journal of Hazardous Materials – 3 reviews
L.9.	Journal of Environmental and Analytical Toxicology – 1 review
L.10.	Reverse Logistics – 1 review
L.11.	Polish Journal of Natural Sciences – 1 review
L.12.	Proceedings of the National Academy of Science, India Section B: Biological Sciences – 1 review
L.13.	Science of the Total Environment – 4 reviews
L.14.	Waste Management – 39reviews
L.15.	Waste Management and Research - 1 review
L.16.	Water SA – 2 reviews