CURRICULUM VITAE

INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Nome, Cognome/Name, Surname	**Monika DOBRZYŃSKA-MIZERA**
Indirizzo/Address	[redacted]
Telefono/Telephone	[redacted]
E-mail	[redacted]
Nazionalità/Nationality	Polish
Luogo e data di nascita/ Place and Date of birth	[redacted]

ESPERIENZA PROFESSIONALE/ WORK EXPERIENCE

In ordine di data /Dates (from – to)	**October 2015 to present**
Nome e indirizzo del datore di lavoro / Name and address of employer	Poznan University of Technology, Institute of Material Technology, Polymer Group Pl. Marii Sklodowskiej-Curie 5, 60-965 Poznan, Poland
Tipo o settore di attività / Type of business or sector	State University
Funzione o posto occupato / Occupation or position held	**Assistant Professor**
Principali mansion e responsabilità / Main activities and responsibilities	Teaching polymer processing and physics, selection of construction materials, recycling of polymers, technological properties and reserach methods of polymeric-based materials (lectures given also in English) Supervisor of 6 and reviewer of 7 bachelor and master theses Research in polymer processing and manufacturing of composites, optimization of processing parameters (including extrusion, injection and compression moulding, and 3D printing technologies), designing materials for medical applications Collaboration with industry

In ordine di data /Dates (from – to)	**October 2012 to October 2017**
Nome e indirizzo del datore di lavoro / Name and address of employer	Poznan University of Technology, Institute of Material Technology, Polymer Group Pl. Marii Sklodowskiej-Curie 5, 60-965 Poznan, Poland
Tipo o settore di attività / Type of business or sector	State University
Funzione o posto occupato / Occupation or position held	**Ph.D. student**
Principali mansion e responsabilità / Main activities and responsibilities	Teaching polymer processing and polymer physics Research in polymer processing and polymer physics (especially iPP processing and modification) Collaboration with industry

ISTRUZIONE E FORMAZIONE / EDUCATION AND TRAINING

In ordine di data /Dates (from – to)	**October 2012 to October 2017**
Nome e tipo d'istituto di istruzione o formazione / Name and type of organisation providing education and training	Poznan University of Technology, Faculty of Mechanical Engineering and Management
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	Full-time Ph.D. Studies, specialization: **materials science**
Livello nella classificazione nazionale o internazionale / Level in National classification	Second stage of tertiary education

In ordine di data /Dates (from – to)	**March 2011 to June 2012**
Nome e tipo d'istituto di istruzione o formazione / Name and type of organisation providing education and training	Poznan University of Technology, Faculty of Mechanical Engineering and Management
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	Full-time MA Studies, awarded Master of Science in the field of: Mechanics and Machinery Design, specialization**: materials processing technologies**
Livello nella classificazione nazionale o internazionale / Level in National classification	First stage of tertiary education

In ordine di data /Dates (from – to)	**October 2006 to January 2011**
Nome e tipo d'istituto di istruzione o formazione / Name and type of organisation providing education and training	Poznan University of Technology, Faculty of Mechanical Engineering and Management
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	Full-time BA Studies, awarded Bachelor of Science in the field of: Materials Engineering, specialization**: metal and plastic materials**
Livello nella classificazione nazionale o internazionale / Level in National classification	First stage of tertiary education

ATTIVITA' DI RICERCA / RESEARCH ACTIVITIES

Recenti attività scientifiche/ Recent Scientific Activities	Main research activity is focused on 3D printing of biobased polymers, polymer-based blends and composites, mainly for packaging and biomedical applications
	25 refereed papers published in journals and books, 20 publications in conference proceedings
	Leader of 3 research projects (2 financed by the National Science Center in Poland and 1 by Poznan University of Technology)
	Invastigator in 4 research project (2 financed by European Union and 2 by the National Center for Research and Development in Poland)
	Internships in foreign countries, including in Italy, Germany, Hungary, Serbia, and Canada

PROGETTI DI RICERCA / RESEARCH GRANTS

[1] Investigator in the research project "Development of customised biodegradable implants for bone reconstruction procedures – Cranioimplants", financed by the National Center for Research and Development, project implementation period: 01/02/2020 – ongoing

[2] Investigator in the research project “Research and development works on an innovative openwork system of steel substructures for the installation of photovoltaic panels with increased durability and load-bearing capacity, along with a new technology of their production” financed by the National Center for Research and Development, project implementation period: 01/10/2021 – ongoing

[3] Leader of Preludium project entitled "Biodegradable polylactide composites with enhanced antibacterial properties" financed by the National Science Center in Poland, project implementation period: 01/10/2017 - 30/08/2020.

[4] Leader of Etiuda project entitled "Analysis of the interactions of sorbitol derivatives with siloxane-silsesquioxane resin on the structure and properties of isotactic polypropylene" financed by the National Science Center in Poland, project implementation period: 01/10/2016 - 30/09/2017.

[5] Leader of the research for the development of young scientists and participants of doctoral studies entitled "Structure and physical properties of biocomponent polymer composites", project implementation period: May-November 2017.

[6] Investigator in the research project "Silsesquioxanes as fillers and modifiers in polymer composites" financed by the European Regional Development Fund under the Operational Program Innovative Economy 2007-2013, project implementation period: 01/01/2010 – 31/12/2013

[7] Investigator in the research project ECOPAT "Development of a costeffective and lightweight hand pallet truck for application in material handling" financed by the 7th Framework Program, European Union, project implementation period: 01/08/2010 – 01/10/2012

RICONOSCIMENTI E PREMI / AWARDS

[1] Innovator Wprost Award 2021 for the innovative 3D printed design of a bioresorbable bone implant, awarded by Wprost, Warsaw, Poland (September 2021)

[2] Outstanding young scientist, 2017-2021, awarded with Scholarship of Polish Minister of Science and Higher Education

[3] Annually listed among best doctoral students at Poznan University of Technology between 2012 and 2017, awarded with Scholarships

[4] Award in the competition for the best Master theses in 2011/2012 academic year, Dean of Faculty of Mechanical Engineering and Management, Poznan University of Technology.

[5] Master thesis awarded in the competition “Outstanding thesis in the area of technology and organization of production and services" in 2013 organized by Federacja Stowarzyszeń Naukowo – Technicznych, Poznań.

ULTERIORI INFORMAZIONI / ADDITIONAL INFORMATION

Languages	**Polish** – Native speaker **English** – Excellent in reading, writing and verbal skills
Other qualifications	Excellent IT skills (MS Office, Proteus, Origin), certificate in writing scientific articles, operating machines such as: extruder, injection molding machine, hydraulic press, thermoforming machine etc. and devices such as: Differential Scanning Calorimeter, thermogravimetric analyzer, rheometer, plastometer, etc.
Additional information	Clean driving license since 2005. Conscientiousness, punctuality, commitment, friendliness. Personal interests: hiking, snowboard, cooking.

PUBBLICAZIONI / SCIENTIFIC ARTICLES

[1] S. Targonska, M. Dobrzyńska-Mizera, M. Wujczyk, J. Rewak-Soroczynska, M. Knitter, K. Dopierala, J. Andrzejewski, R.J. Wiglusz, New way to obtain the poly(L-lactide-co-D,L-lactide) blend filled with nanohydroxyapatite as biomaterial for 3D-printed bone-reconstruction implants, European Polymer Journal 2022, 165, 110997.

[2] M. Dobrzyńska-Mizera, M. Knitter, D. Szymanowska, S. Mallardo, G. Santagata, M.L. Di Lorenzo, Optical, mechanical, and antimicrobial properties of bio-based composites of poly(L-lactic acid) and D-limonene/β-cyclodextrin inclusion complex, J Appl Polym Sci. 2022, e52177.

[3] J. Molnár, Ö. Sepsi, B.Gaál, Z. Zuba, M. Dobrzyńska-Mizera, A. Menyárd, Probabilistic numerical simulation for predicting spherulitic morphology from calorimetric crystallization conversion curves: An isothermal case, Materials & Design 2021, 212, 110245.

[4] M. Dobrzyńska-Mizera, M. Knitter, S. Mallardo, M.C. Del Barone, G. Santagata, M.L. Di Lorenzo, Thermal and Thermo-Mechanical Properties of Poly(L-lactic Acid) Biocomposites Containing β-Cyclodextrin/D-Limonene Inclusion Complex. Materials 2021, 14, 2569.

[5] I.S. Stefanović, J.V. Džunuzović, E.S. Džunuzović, A. Dapčević, S.I. Šešlija, B.D. Balanč, M. Dobrzyńska-Mizera, Composition-property relationship of polyurethane networks based on polycaprolactone diol. Polym. Bull. 2020, 78, 7103–7128.

[6] M. Dobrzyńska-Mizera, M. Knitter, A. Woźniak-Braszak, M. Baranowski, T. Sterzyński, M.L. Di Lorenzo, Poly(L-Lactic Acid)/Pine Wood Bio-Based Composites, Materials 2020, 13, 3776.

[7] M. Dobrzyńska-Mizera, M. Barczewski, M. Knitter, Walnut shells as a filler for polymeric materials, Drewno 2019, 203.

[8] S. Seslija, P. Spasojević, V. Panic, M. Dobrzyńska-Mizera, B. Immirzi, J. Stevanovic, I. Popović, Physico-chemical evaluation of hydrophobically modified pectin derivatives: Step toward application, International Journal of Biological Macromolecules 2018, 113.

[9] M. Dobrzyńska-Mizera, M. Dutkiewicz, T. Sterzyński, M. L. Di Lorenzo, Polypropylene-based composites containing sorbitol-based nucleating agent and siloxane-silsesquioxane resin, Journal of Applied Polymer Science 2016, 133, 22.

[10] M. Dobrzyńska-Mizera, M. Dutkiewicz, T. Sterzyński, M. L. Di Lorenzo, Isotactic polypropylene modified with sorbitol-based derivative and siloxane-silsesquioxane resin, European Polymer Journal 2016, 85, 62-71.

[11] M. Barczewski, M. Dobrzyńska-Mizera, M. Dutkiewicz, M. Szołyga, Novel polypropylene β-nucleating agent with polyhedral oligomeric silsesquioxane (POSS) core: synthesis and application, Polymer International 2016, 65, 9.

[12] M. Dobrzyńska-Mizera, M. Dutkiewicz, T. Sterzyński, M. L. Di Lorenzo, Interfacial enhancement of polypropylene composites modified with sorbitol derivatives and siloxane-silsesquioxane resin, AIP Conference Proceedings 1695, 020049 (2015); doi: 10.1063/1.4937327.

[13] M. Knitter, M. Dobrzyńska-Mizera, Mechanical properties of isotactic polypropylene modified with thermoplastic potato starch, Mechanics of Composite Materials 2 (51), pp. 245-252 (2015), DOI 10.1007/s11029-015-9496-5.

[14] M. Barczewski, M. Dobrzyńska-Mizera, B. Dudziec, T. Sterzyński, Influence of a sorbitol-based nucleating agent modified with silsesquioxanes on the non-isothermal crystallization of isotactic polypropylene, Journal of Applied Polymer Science 8 (131), 40131 (2014), ISSN 0021-8995.

[15] M. Knitter, M. Dobrzyńska-Mizera, Mechanical properties of isotactic polypropylene modified with thermoplastic potato starch, Mechanics of Composite Materials 6 (50), 2014, ISSN: 0191-5665.

[16] M. Barczewski, D. Chmielewska, M. Dobrzyńska-Mizera, B. Dudziec, T. Sterzyński, Thermal stability and flammability of polypropylene-silsesquioxane nanocomposites, International Journal of Polymer Analysis and Characterization 6 (19), pp 500-509 (2014), ISSN: 1023-666X.

[17] M. Barczewski, B. Dudziec, M. Dobrzyńska-Mizera, T. Sterzyński, Synthesis and influence of sodium benzoate silsesquioxane based nucleating agent on thermal and mechanical properties of isotactic polypropylene, Journal of Macromolecular Science, Part A: Pure and Applied Chemistry 11 (51), 2014, ISSN: 1060-1325.

[18] M. Dobrzyńska-Mizera, M. Barczewski, Wpływ dodatku napełniacza organicznego na właściwości mechaniczne kompozytów na osnowie polipropylenu (Influence of organic filler on mechanical properties of polypropylene composites – translation by the author), Przetwórstwo Tworzyw 5 (161)/20, pp 399-404 (2014), ISSN: 1429-0472.

[19] M. Barczewski, M. Dobrzyńska-Mizera, J. Andrzejewski, D. Chmielewska, Ocena właściwości włókien orientowanych wykonanych z nukleowanego izotaktycznego polipropylenu modyfikowanego silseskwioksanami (Assessment of the properties of oriented fibers made of isotactic polypropylene modified with silsesquioxanes – translation by the author), Polymer Processing 3 (153), pp 139-143 (2013), ISSN 1429 – 0472.

[20] J. Andrzejewski, M. Dobrzyńska-Mizera, T. Sterzyński, M. Barczewski, Single polymer composites as replacement for glass fiber reinforcement, Chemicke Listy 107, pp 100-101 (2013), ISSN 0009 – 2770.

[21] M. Dobrzyńska-Mizera, M. Barczewski, B. Dudziec, T. Sterzyński, Influence of the cooling rate on the non-isothermal crystallization of iPP nucleated with DMDBS and silsesquioxanes, Polimery 11—12, 58, pp 88 – 91 (2013), ISSN 0032 – 2725.

[22] M. Barczewski, M. Dobrzyńska-Mizera, M. Trzeciak, Influence of heterogeneous nucleation on thermal and thermodynamic properties of isotactic polypropylene, Polish Journal of Chemical Technology 4 (15), pp 71-74 (2013), ISSN 1509 – 8117.

[23] M. Dobrzyńska-Mizera, M. Barczewski, J. Andrzejewski, Ocena skuteczności nukleacji izotaktycznego polipropylenu na podstawie badań skaningowej kalorymetrii różnicowej (Assessment of isotactic polypropylene nucleation efficiency on basis of Differential Scanning Calorimetry – translation by the author), Inżynieria Wytwarzania, edited by M. Dudziak, A. Kołodziej, Ph: Uczelniane PWSZ in Kalisz, Kalisz 2012, ISBN 978-83-60137-51-2.

[24] D. Chmielewska, M. Barczewski, M. Dobrzyńska-Mizera, Zastosowanie różnicowej kalorymetrii skaningowej (DSC) jako metody oceny procesu sieciowania żywicy epoksydowej (Usage of Differential Scanning Calorimetry as an assesment method for epoxy resin creosslinking process – translation by the author), Inżynieria Wytwarzania, edited by M. Dudziak, A. Kołodziej, Ph: Uczelniane PWSZ in Kalisz, Kalisz 2012, ISBN 978-83-60137-51-2.

[25] M. Barczewski, D. Chmielewska, M. Dobrzyńska-Mizera, Ocena właściwości reologicznych stopionych polimerów w warunkach intensywnego ścinania z wykorzystaniem reologii in-line (Assessment of rheological properties of molten polymers under shearing conditions using in-line rheology – translation by the author), Inżynieria Wytwarzania, edited by M. Dudziak, A. Kołodziej, Ph: Uczelniane PWSZ in Kalisz, Kalisz 2012, ISBN 978-83-60137-51-2.

TRATTAMENTO DEI DATI PERSONALI, INFORMATIVA E CONSENSO

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The Undersigned hereby authorises che CNR to utilize and store the personal sensitive data contained in the attached Curriculum Vitae for the purposes of the Programme and within the framework of the Data protection Act No. 196, dates 30 June 2003 as promulgated by the Italian Government.

✕ Si, acconsento

Poznan, February 16, 2022