Data of Supervisors of the Doctoral School at WPUT

Supervisor:	Dr hab. inż. Magdalena Zdanowicz, prof. ZUT
(academic titles and degrees,	
name and surname)	
Units:	Center of Bioimmobilisation and Innovative Packaging Materials,
	Faculty of Food Sciences and Fisheries, West Pomeranian
	University of Technology in Szczecin
E-mail:	mzdanowicz@zut.edu.pl
Contact:	mzdanowicz@zut.edu.pl
ORCID	0000-0002-7049-1656
Scientific Discipline(s):	Food Technology
	Material Engineering
Research Areas	Supervisor conducts research on plastics processing (mainly as
(max. 2000 characters):	packaging materials) and their functionalization including active
(max. 2000 characters).	packaging (antimicrobial, antioxidative properties). Research areas
	also include the preparation and characterization of novel,
	environmentally friendly media/solvents called: Deep Eutectic
	Solvents (DES) used as solvents and/or plasticizers for different
	polymers, functional additives/modifiers of plastics and
	biocomposites, catalysts or extractants (e.g. for polymers, active
	compounds).
	Research focuses mainly on biobased and biodegradable polymers
	and naturally-originated materials as well as edible
	coatings/packaging and utilization of side products.
	Scientific interest also revolves around chemical recycling of
	packaging materials.
	Material characteristics: FTIR, mechanical properties (stretching,
	puncture, friction), barrier properties, DMTA, UV-Vis analysis
	(barrier towards UV, DPPH, TPC), color changes, accelerated
	ageing.
Keywords (max. 10):	biopolymers,
	polysaccharides,
	deep eutectic solvents,
	plastics processing,
	packaging,
	active packaging,
	plasticization,
	functionalization,
	hydrocolloids