Data of Supervisors of the Doctoral School at WPUT

Supervisor:	dr hab. inż. Agnieszka Kowalczyk, prof. ZUT
(academic titles and degrees,	
name and surname)	
Units:	Faculty of Chemical Technology and Engineering;
	Department of Organic Chemical Technology and Polymer
	Materials
E-mail:	agnieszka.kowalczyk@zut.edu.pl
Contact:	tel. 91 449 46 84
ORCID	0000-0002-9017-7058
Scientific Discipline(s):	Chemical Engineering
Research Areas	Synthesis of photoreactive acrylate and vinyl resins with
(max. 2000 characters):	heteroatoms (Si, P, Br, F) for applications in adhesive materials
	and VAT photopolymerisation (3D-SLA); Characterisation of the
	photopolymerisation and phototelomerisation processes for
	(meth)acrylic, vinyl monomers and the photocrosslinking of
	acrylate, vinyl and epoxy polymers; chemical and physical
	modification of adhesive and coating binders; formulation and
	optimisation of photo-crosslinkable adhesives, thermosetting
	adhesives (e.g. for the aviation industry), including those with
	increased thermal and mechanical resistance and high adhesion to
	various surfaces (steel, Al, Cu, glass), including critical surfaces
	(PE, PP). Preparation and characterisation of biocidal and
	anticorrosive varnishes. Preparation and characterisation of
	medical patches with natural substances and dressing hydrogels
	based on photocrosslinkable synthetic monomers.
Keywords (max. 10):	Photoreactive resins, acrylates, epoxyacrylates, pressure-sensitive
	adhesives, structural adhesives, phototelomerisation, VAT
	photopolymerisation, biocidal coatings, hydrogels.