

Data of Supervisors of the Doctoral School at WPUT

Supervisor: (academic titles and degrees, name and surname)	dr hab. inż. Katarzyna Wilpiszewska, prof. ZUT
Units:	Faculty of Chemical Technology and Engineering Department of Organic Chemical Technology and Polymer Materials
E-mail:	kwilpi@zut.edu.pl
Contact:	ul. Pułaskiego 10 70-322 Szczecin Tel (91) 449 47 57
ORCID	0000-0003-2756-3471
Scientific Discipline(s):	discipline 1 (50%): chemical engineering discipline 2 (50%) material science
Research Areas (max. 2000 characters):	Natural polymers, especially polysaccharides (e.g., starch, cellulose, chitosan, alginates) - physical and chemical modification, carboxymethylene derivatives, plasticization of polysaccharides with deep eutectic solvents, obtaining and characterization of films based on natural polymers, mineral fillers - aluminosilicates, modification and use. New applications of the above-mentioned systems, for example, in the compositions of pressure-sensitive adhesives, as matrices for controlled release of active substances (such as pesticide). Hydrogels based on natural polysaccharides. Thermal and rheological analysis of polymer systems.
Keywords (max. 10):	DES, hydrogels, polysaccharides, fillers, composites, starch, cellulose, chitosan, thermal properties, rheological properties