

### Data of Supervisors of the Doctoral School at WPUT

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Scientific Discipline(s):	chemical engineering
Research Areas (max. 2000 characters):	<p>1) obtaining zeolite and zeolite-like materials, also using raw materials of natural origin (plant biomass), their characterization and studies of catalytic activity and studies of the possibilities of using these materials in medicine, including as drug carriers;</p> <p>2) research on the oxidation and isomerization processes of selected compounds of natural origin, including compounds obtained from waste biomass (mainly terpenes - limonene, geraniol, alpha-pinene) on heterogeneous catalysts, including zeolites of natural origin and other minerals;</p> <p>3) developing modern recipes for cosmetic preparations and preparations with therapeutic effects, prepared using compounds of natural origin and products of their transformation (e.g. creams with antioxidant and antibacterial effects),</p> <p>4) developing modern forms of preparations for the treatment of wounds and skin irritations using compounds of natural origin and products of their transformation (e.g. plasters or creams plasters)</p>
Keywords (max. 10):	oxidation and isomerization of terpenes, synthesis of zeolites, drug carriers, preparations with antioxidant and antibacterial activity