

Data of Supervisors of the Doctoral School at WPUT

Supervisor: (academic titles and degrees, name and surname)	Prof. dr hab. inż. Elżbieta Filipek
Units:	Faculty of Chemical Technology and Engineering, Department of Inorganic and Analytical Chemistry,
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Scientific Discipline(s):	Chemical Sciences
Research Areas (max. 2000 characters):	Studies of multicomponent systems of various oxides, including those based on rare-earth oxides. The primary goal of these studies is to obtain and characterize previously unknown compounds and/or solid solutions type phases using XRD, DTA-TG, UV-Vis(DRS), FTIR and LDS methods. Comprehensive characterization of such phases will allow us to indicate potential applications for them as components of various types of functional materials. Such materials can be used as inorganic pigments, active components of photocatalysts, lasers or optoelectronic materials.
Keywords (max. 10):	Multicomponent oxide systems, solid-state reactions, new functional materials, methods: XRD, DTA-TG, FTIR, UV-Vis (DRS), LDS.