

- 1) Project title: Development and analysis of properties of progressive polymer matrix composites doped with silver nanoparticles for sensors and antibacterial applications
Project number: VEGA 1/0020/22
Project duration: 2022-2024
Position: project leader
- 2) Project title: Analysis of structural, corrosion, and antimicrobial properties of biologically synthesized silver nanoparticles and preparation of polymer-based nanocomposites containing Ag nanoparticles
Project number: VEGA 1/0134/19
Project duration: 2019-2021
Position: project leader
- 3) Project title: Study of the use of silver nanoparticles produced by biometallurgical processes in the prevention of biofilm formation
Project number: VEGA 1/0197/15
Project duration: 2015-2017
Position: project leader
- 4) Project title: Creation aids for materials engineering education using IT resources for Industry 4.0
Project number: KEGA 009TUCE-4/2023
Project duration: 2023-2025
Position: Deputy project leader
- 5) Project name: Advanced composites based on magnesium and carbon nanomaterials (CNT/CNF/GNP) prepared by sintering using pulsed electric current
Project number: VEGA 12/0101/20
Project duration: 2020-2022
Position: Deputy project leader for education
- 6) Project name: Influence of secondary particles on the microstructure and mechanical properties of magnesium nanocomposite structures
Project number: VEGA 2/0080/17
Project duration: 2017-2019
Position: Deputy project leader for education
- 7) Project name: Combined form of education and innovation of selected study programs at HF TUKE
Project number: KEGA 007TUCE-4/2017
Project duration: 2017-2019
Position: member of the research team
- 8) Project title: The influence of intense plastic deformations on the formation of the structure and properties of progressive composite nanomaterial systems
Project number: VEGA 2/0118/14
Project duration: 2014-2016
Position: researcher
- 9) Project title: Study of new procedures in biometallurgical and hydrometallurgical recovery of noble metals from wastewater
Project number: VEGA 1/0235/12
Project duration: 2012-2014
Position: researcher
- 10) Project title: The influence of dispersed particles on the formation of the structure and properties of nanocomposites prepared by the method SPD
Project number: VEGA 2/0025/11
Project duration: 2011-2013
Position: researcher
- 11) Project name: Study of obtaining common and noble non-ferrous metals from secondary sources by biometallurgical and hydrometallurgical processes

Project number: VEGA 1/0134/09
Project duration: 2009-2011
Position: researcher

12) Project name: Obtaining usable substances by effective processing of waste from aluminum production - aluminum scraps
Project number: APVV-20-13405
Project duration: 2006-2009
Position: researcher

13) Project name: Evaluation of structural parameters and analysis of physical and mechanical properties of dispersion-strengthened systems
Project number: VEGA 2/5142/25
Project duration: 2005-2007
Position: researcher

14) Project title: Synthesis of materials with specific properties using waste and/or low-quality input raw materials
Project number: VEGA 1/0390/03
Project duration: 2003-2005
Position: researcher

15) Project title: Comprehensive analysis of structure, evaluation of deformation and failure of composites with particles
Project number: VEGA 2/2114/22
Project duration: 2001-2004
Position: researcher

16) Project title: Quantification of structure and deformation processes of dispersion-strengthened systems
Project number: VEGA 2/6097/99
Project duration: 1996-2001
Position: researcher

17) Project name: Structure and mechanical properties of dispersion systems
Project number: VEGA 2/1316/96
Project period: 1996-1999
Position: researcher

18) Project name: Hydrometallurgical technologies for processing polymetallic nodules
Project: IOM Poland
Project year: 2001