

LIST OF DISSERTATIONS TOPICS FOR DOCTORAL STUDIES COURSES IN 2021

NATURAL SCIENCES

Scientific area	Topics of doctoral dissertations	Supervisors
CHEMISTRY – N 003	1. <i>Synthesis of inorganic perovskite nanoparticles and their application in solar cells</i>	Prof. Artūras Katelnikovas
	2. <i>Investigation of crystallization and phase transitions in calcium phosphates</i>	Dr. Aleksej Žarkov
	3. <i>Synthesis of calcium phosphates with antibacterial properties</i>	Dr. Aleksej Žarkov
	4. <i>Application of metallic and carbon-based nanomaterials in biological sensors</i>	Dr. Anton Popov
	5. <i>Investigation of applicability of paper in the food industry using chromatographic method</i>	Prof. Vida Vičkačkaitė
	6. <i>Modification of yeast (<i>Saccharomyces cerevisiae</i>) cells for bioanalytical and/or bioenergetic applications</i>	Doc. Aušra Valiūnienė
	7. <i>Application of Scanning Electrochemical Microscopy for modification of model membranes systems with electric impulse</i>	Doc. Aušra Valiūnienė
	8. <i>Application of self-assembling structures for the development of sensors</i>	Prof. Arūnas Ramanavičius
	9. <i>Synthesis of novel conducting polymers and application for biosensors</i>	Prof. Arūnas Ramanavičius
	10. <i>Functionalization of wood using nanoparticles: reduction of flammability and investigation of other properties</i>	Doc. Ramūnas Skaudžius
	11. <i>Investigation of the application of ozone for the treatment of underground oil contaminants</i>	Prof. Aivaras Kareiva
	12. <i>Synthesis of calcium hydroxyapatite having different morphology, comparison of properties and application in cosmetology</i>	Dr. Edita Garškaitė
	13. <i>Modern characterization of biological specimens using different techniques</i>	Prof. Aivaras Kareiva
	14. <i>Photo-active supramolecular systems</i>	Prof. Edvinas Orentas

	15. <i>Molecular recognition, encapsulation and catalysis in nanospace</i>	Prof. Edvinas Orentas
	16. <i>Hydrolytically stable catechol brush copolymers</i>	Prof. Ričardas Makuška