

**RTU zinātniskās pētniecības projektu konkursa Jaunajiem zinātniekiem 2014./2015.
apstiprinātie projekti**
(Projekta īstenošanas laiks no 2014. gada 1. jūnijs līdz 2015. gada 31. maijam)

Nr.p.k.	Projekta vadītājs	Projekta nosaukums	Fakultāte
ZP-2014/4	Māris Turks	Synthesis and applications of hexofuranose-derived thioureas	MLĶF
ZP-2014/9	Deniss Stepins	Optimization of Modulation Waveforms for Improved EMI Attenuation in Switching Frequency Modulated Power Converters	ETF
ZP-2014/10	Aleksandrs Mičko	Application of selective laser absorption for improvement of CdZnTe crystal	MLĶF
ZP-2014/17	Elīna Dāce	Finding the way to mitigate greenhouse gas emissions through sustainable agricultural policy	EEF
ZP-2014/28	Oskars Ozoliņš	All-Optical Signal Processing with Micro- and Nano-Structured Devices for High-Speed Information Transmission	EEF
ZP-2014/31	Kristīne Šalma-Ancāne	Mesenchymal stem cell response to magnesium containing biphasic calcium phosphate bioceramics	MLĶF
ZP-2014/32	Pāvels Onufrijevs	Zn nanoparticles formation on a surface of ZnO crystal by laser radiation: experiment, model and application	MLĶF
ZP-2014/13	Aleksandrs Suzdaļenko	Current Sensorless Control Algorithm for Half-bridge Based Bidirectional AC/DC Converter Considering Conduction Losses	EEF
ZP-2014/22	Remo Merijs Meri	Structure and properties of modified carbon nanofillers containing polymer composites	MLĶF
ZP-2014/23	Inga Dāboliņa	Usability of 3D anthropometrical data in CAD/CAM patterns	MLĶF
ZP-2014/24	Andris Šutka	Spinel type ferrites as semiconductor gas sensors	MLĶF
ZP-2014/27	Dana Beļakova	The sol-gel technology application of cotton textile processing	MLĶF
ZP-2014/1	Kristaps Māliņš	Synthesis of activated carbon based heterogeneous acid catalyst for biodiesel preparation	MLĶF
ZP-2014/5	Edgars Vīgants	The dynamics of technological substitution: the case of eco-innovations diffusion	EEF
ZP-2014/6	Vitālijs Lakevičs	Characterization and properties of thermally and chemically treated illite containing clays	MLĶF

ZP-2014/20	Dagnija Loča	The effect of TiO ₂ nanopowder coating on in vitro bioactivity of porous TiO ₂ scaffolds	MLKF
ZP-2014/29	Aivars Žandeckis	Performance analysis of solar and pellet based thermal systems with low temperature heating solutions	EEF
ZP-2014/37	Jānis Ločs	Electrical and thermal conductivity of sol-gel synthesized Ti _{1-x} Sn _x O ₂ ceramics	MLKF
ZP-2014/38	Agnese Stunda-Zujeva	Glass forming ability in system P ₂ O ₅ -CaO-Nb ₂ O ₅ -Na ₂ O	MLKF
ZP-2014/2	Anita Geriņa-Ancāne	Research of recycling of absorbent hygiene products (AHP)	TMF
ZP-2014/8	Sergejs Gaidukovs	Polymer– Baltic amber composite and fiber for bio textile applications	MLKF
ZP-2014/11	Dmitrijs Pikuļins	Effects of Control Non-idealities on the Nonlinear Dynamics of Switching DC-DC Converters	ETF
ZP-2014/12	Nelli Batenko	A novel method for the synthesis of benzimidazole –based 1,4-quinone derivatives	MLKF
ZP-2014/14	Andrejs Stepanovs	DC/DC converter with low input and output current ripple	EEF
ZP-2014/18	Arnis Lektauers	GPU-based Approach for High Performance Simulation and Visualization of Large-Scale Public Transport Systems	DITF
ZP-2014/19	Vjačeslavs Bobrovs	Active mixed WDM fiber optical transmission system	ETF
ZP-2014/21	Vitālijs Boļšakovs	Application of Simulation-based Fitness Landscape Analysis in Optimization of Complex Systems	DITF
ZP-2014/26	Olga Kononova	Investigation of influence of nano-reinforcement on the mechanical properties of composite materials	TMF
ZP-2014/33	Agrita Kovaļska	Analysis of products obtained from recycled Absorbent Hygiene Products (AHP)	TMF
ZP-2014/35	Vitālijs Rjabovs	Synthesis of novel building blocks for carbopeptoid and their triazole isoster assembly	MLKF
ZP-2014/36	Jānis Rubulis	Heterogeneous accumulation of particles in drinking water distribution network	BIF