



80th International Scientific
Conference of the
University of Latvia 2022



Nano and Quantum Technologies, and Innovative Materials

Wednesday, 16 February 2022, 10.00 AM, Zoom
platform

Programma / Programme

PLENĀRSESIJA / PLENARY SESSION

Vadītāja / Chair: Dr. Gunta Kunakova

9.40 – 10.00	Pievienšanās konferencei / Joining the Conference	
10.00 – 10.10	Atklāšana / Opening	
10.10 – 10.30	Lāsma Puķina-Slava, Andrejs Tatuļčenkovs, Guntars Kitenbergs (<i>MMML laboratory, Faculty of Physics, Mathematics and Optometru, University of Latvia, Raina blvd. 19, Riga, Latvia</i>)	Sākotnējās difūzijas pakāpes ietekme uz magnētisko mikro-konvekciju / Pre-mixing effects on magnetic micro-convection.
10.30 – 10.50	Gundars Vaivars (<i>Faculty of Chemistry, University of Latvia, Raina blvd. 19, Riga, Latvia</i>)	Nātrija akumulatori / Sodium-ion batteries
10.50 – 11.10	Jana Andzane, Krisjanis Buks, Lāsma Bugovecka, Loreta Brauna, Donāts Erts (<i>Institute of Chemical Physics, University of Latvia, Raina blvd. 19, Riga, Latvia</i>)	CNT-Bi₂Se₃ heterostruktūras pielietojumiem lokanos tetmoelektriskos kompozītos / Application of CNT-Bi₂Se₃ heterostructures in flexible thermoelectric composites
11.10 – 11.30	Laima Busaite (<i>Faculty of Physics, Mathematics, and Optometry, University of Latvia, Raina blvd. 19, Riga, Latvia</i>)	Magneto-optiskie efekti atomārās sistēmās / Magneto-optical effects in atomic systems
11.30 – 11.50	Pārtraukums / Break	
11.50 – 12.10	Gunta Ķizāne, Anna Ansone, Avotiņa Līga, Andris Antuzēvičs, Artūrs Zariņš, Madara Tomele, Mareks Senko, Larisa Baumane, Kārlis Švirksts (<i>Institute of Chemical Physics, University of Latvia, Raina blvd. 19, Riga, Latvia</i>)	Litija ortosilikāta un metatitanāta divu fāzu keramikas minilodīšu radiācijas stabilitāte / Radiation stability of lithium orthosilicate and metatitanate two-phase ceramic pebbles

12.10 – 12.30	Elīna Pavlovska , Ģirts Barinovs, Vjačeslavs Kaščejevs <i>(Faculty of Physics, Mathematics, and Optometry, University of Latvia, Raina blvd. 19, Riga. Latvia)</i>	Divu daļiņu sadursmes topoloģiskajos malu stāvokļos picosekunžu mēroga elektroniskajiem sensoriem / Two-particle collisions in topological edge states for picosecond-scale electronic sensing
12.30 – 12.50	Reinis Baranovskis , Didzis Berenis <i>(Institute of Physics, University of Latvia, Raina blvd. 19, Riga, Latvia)</i>	Burbuļu sagraušana šķidrā metālā / Bubble dispersion in liquid metal
12.50 – 13.10	Sergejs Vidinejevs , Edmunds Zīle, L. Vēvere, Andrejs Aniskevich <i>(Institute of mechanics of Materials, University of Latvia, Raina blvd. 19, Riga, Latvia)</i>	3D drukāto poli(pienskābes) detaļu struktūras un īpašību maiņa uzglabāšanas laikā / Change of structure and properties of 3D printed poly(lactic acid) parts during storage
13.10 – 13.30	Noslēgums, diskusijas / Conclusions, discussions	