



79.



Latvijas  
Universitātes  
starptautiskā  
zinātniskā  
konference

ĶĪMIJA  
CHEMISTRY

Fizikālās ķīmijas sekcija  
Section of Physical Chemistry

Piektdiena, 2021. gada 12. februārī plkst. 9.00, tiešsaistē  
Friday, 12 February 2021, 9.00 AM, online

Zoom saite: <https://zoom.us/j/98033009172?pwd=WFJpOEIuTkpYbDU5a1RWRWJqSmd3QT09>  
Meeting ID: 980 3300 9172 Passcode: 476612

## Programma/Programme

8.45–09.00	Pieslēgšanās ZOOM konferences platformai	
Vadītājs/Chair: Assoc. prof. Agris Bērziņš; Vietnieks/co-Chair: MSc Kristaps Saršūns		
09.00–09.05	Atklāšana / Opening	
09.05–09.20	<b>Anna Ansone</b> <i>Institute of Chemical Physics, University of Latvia</i>	Analysis of sorbed gases on surface of lithium orthosilicate based ceramics with thermogravimetry and IR spectrometry A. Ansone, A. Zariņš, L. Avotiņa, G. Ķizāne
09.20–09.35	<b>Līga Avotina</b> <i>Institute of Chemical Physics, University of Latvia</i>	Analysis of electron irradiated proton exchange membranes with infrared spectrometry L. Avotina, E. Pajuste, I. Reinholds, E. Sprūģis, G. Vaivars
09.35–09.50	<b>Patricija Kalnina</b> <i>Institute of Chemical Physics, University of Latvia</i>	Optimization of the efficiency of the distillation method for the separation of tritium from beryllium-containing acid solutions P. Kalnina, E. Pajuste, G. Kizane
09.50–10.05	<b>Elza Lagzdina</b> <i>Institute of Chemical Physics, University of Latvia</i>	Inconel – 718 alloy electrochemical polishing E. Lagzdina, E. Pajuste, G. Kizane, A. Lescinskis
10.05–10.20	<b>Toms E. Šusts</b> <i>Institute of Chemical Physics, University of Latvia</i>	Effects of radiation on CMS MTD BTL components and binding materials T.E. Šusts, E. Pajuste, G. Ķizāne
10.20–10.35	<b>Agris Auce</b> <i>Institute of Chemical Physics, University of Latvia</i>	Reduction of CO <sub>2</sub> emissions in greenhouse heating by using air to air heat pump A. Auce, I. Auce, I. Horns, A. Jeremuss, S. Ivanovs, M. Drozdovs, Ā. Ruciņš
10.35–10.50	<b>Lāsma Bugovecka</b> <i>Faculty of Chemistry, University of Latvia</i>	Synthesis and properties of flexible carbon nanotube-metal chalcogenide structures L. Bugovecka, K. Buks, K. Niherush, J. Andžāne, D. Erts

10.50–11.10	<b>Coffee break, discussions (on-line)</b>	
<b>Otrā daļa/Second part</b>		
11.10–11.25	<b>Samanta Homiča</b> <i>Institute of Solid State Physics, University of Latvia</i>	Cirkonija dioksīda nanodispersiju iegūšana no cirkonija oksihlorīda oktahidrāta un šo dispersiju elektriskās īpašības S. Homiča, E. Sprūģis, G. Vaivars
11.25–11.40	<b>Anna Trubača-Boginska</b> <i>Faculty of Chemistry, University of Latvia</i>	Modification of bentonite clay with zwitterions for application in SPEEK composite membranes A. Trubača-Boginska, R. Ādiņa, A. Prikšāne, G. Vaivars, J. Švirksts
11.40–11.55	<b>Ksenija Kokina</b> <i>Faculty of Chemistry, University of Latvia</i>	Chemical composition of <i>Malus Domestica</i> leaves K. Kokina, V. Valkovska
11.55–12.10	<b>Valda Valkovska</b> <i>Faculty of Chemistry, University of Latvia</i>	Characterization of pigments from <i>Rumex confertus</i> root for wool dyeing V. Valkovska, L. Orola
12.10–12.25	<b>Raitis Bobrovs</b> <i>Latvian Institute of Organic Synthesis</i>	Identification of potential plasmepsin IX inhibitors using High-Throughput Virtual Screening R. Bobrovs, I. Kaņepe-Lapsa, K. Jaudzems
12.25–12.40	<b>Zane Čerpakovska</b> <i>Faculty of Chemistry, University of Latvia</i>	Investigation of possibilities to control the polymorph obtained in crystallization of 3-hydroxybenzoic acid Z. Čerpakovska, K. Saršūns, A. Bērziņš
12.40–12.55	<b>Artis Kons</b> <i>Faculty of Chemistry, University of Latvia</i>	Hexamorphism of dantrolene: insight into the crystal structures, stability, and phase transformations A. Kons, A. Mishnev, T.A. Mukhametzyanov, A.V. Buzyurov, S.E. Lapuk, A. Bērziņš
12.55–14.00	<b>Pusdienu pārtraukums, diskusijas/Lunch break, discussions online</b>	
<b>Trešā daļa/ Third part</b>		
14.00-14.15	<b>Kristaps Saršūns</b> <i>Faculty of Chemistry, University of Latvia</i>	Formation of solid solution in xanthone derivative systems exhibiting luminescence properties K. Saršūns, A. Karziņins, K. Leduskrasts, A. Bērziņš, T. Reķis
14.15-14.30	<b>Aina Semjonova</b> <i>Faculty of Chemistry, University of Latvia</i>	Screening of crystallization additives for polymorph control of 2,6-dimethoxybenzoic acid A. Semjonova, A. Bērziņš
14.30-14.45	<b>Aija Trimdale</b> <i>Faculty of Chemistry, University of Latvia</i>	Behavior of dihydroxybenzoic acid molecules in solutions determined using spectroscopic methods and molecular dynamics simulations, and the possible effect of disparities on their propensity to form solid phases A. Trimdale, A. Bērziņš
14.45–15.--	<b>Noslēgums, diskusijas teihsaitē Conclusion, discussions on-line</b>	