

Science&Progress 2020

Section A

Section A1, moderator prof. D. Kirsanov

Tuesday 10 Nov

15:45-17:30

Time, min

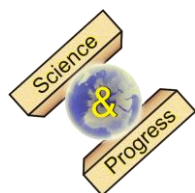
15	Connection test	
5	Aliev Timur	Electrochemical Platform for NeuroNet Analysis of Zn in blood and urine
15	Dmitrenko Mariia	Development of novel sodium alginate membranes for the pervaporation dehydration using bulk and surface modifications
5	Filippov Ilya	Base-promoted cyclization of 4-alkyl-2-azabuta-1,3-dienes into 1-pyrroline derivatives
15	Kudryashov David	Development of analytical techniques for ferrate (VI) quantification during its continuous electrochemical production in a mobile water purification plant
15	Kuzminova Anna	Development and study of novel pervaporation green membranes based on sodium alginate modified by Zr-MOFs
5	Kuznetsova Anastasiia	Transport characteristics of porous glass membranes modified with bismuth (III) oxide
15	Liamin Vladislav	Novel green pervaporation membranes based on sodium alginate modified by fullerene derivative for dehydration

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15	Connection test	
15	Nikitina Anna	Molecular 2D membrane for the exchange of cations from crystal structure
5	Pershina Lyubov	Ion-selective carbon fiber electrodes based on polyelectrolyte for early diagnosis of urolithiasis
5	Stekolshchikova Anna	Electrochemical Determination of Encephalitis Virus Antigen Using Polyelectrolyte-based Screen-Printed Electrode
5	Surkova Viktoria	Development of novel membranes based on polyphenylene isophthalamide modified by UiO-66(NH ₂)-EDTA for highly efficient methanol isolation
5	Volkov Alexey	Electrochemical Characterization of Molybdenum Disulfide with Conductive Polymer Binder as Anode Material for Lithium-Ion Batteries
5	Yurova Veronika	Chemical logic devices based on photoelectrochemical photocurrent switching effect (PEPS) in nanotubes of titanium dioxide
5	Zolotarev Andrey	Development of novel pervaporation blended membranes based on polyvinyl alcohol-hydroxyethyl cellulose composite
5	Zolotarev Andrey	Novel green membranes based on sodium alginate-hydroxyethyl cellulose for pervaporation dehydration
5	Faykov Ilya	Fabrication and characterization of novel membranes based on polybenzoxazinoneimide and its prepolymer
5	Rostovtseva Valeriia	Research of innovative membrane material modified with layered perovskites for the isolation of valuable products from aqueous and organic mixtures
5	Zheltova Victoriya	Fe ₃ O ₄ @HAp core-shell nanoparticles as MRI contrast agent: synthesis, characterization and theoretical and experimental study of shell impact on magnetic properties



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Section Aq, moderator K. Grzhegorzhevskii

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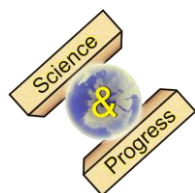
15	Connection test	
5	Danilova Elena	Deep eutectic solvents as a medium for laser synthesis of metal and composite materials on the surface of dielectrics
15	Dehabadi Monireh	Potentiometric Sensors for Scandium and Yttrium
15	Deriabin Konstantin	Ni(II)-pyridinedicarboxamide-co-polydimethylsiloxanes as new materials for flexible electronic devices
15	Dobrynin Mikhail	Hybrid polymers based on modified hydroxyethyl cellulose and hydride-terminated polysiloxane
5	Ershov Valentin	Development of nanocomposite materials for electrodes of lithium-sulfur batteries based on salen-type nickel polymer complexes and molecular layering technology
5	Kamenskii Mikhail	A simple approach to the reliable comparison of kinetic parameters of charge transfer processes in electrode materials for lithium-ion batteries
5	Laishevkina Svetlana	Electroconductive particles for sensor application
5	Ledovich Olesia	Surface modification of titanium alloys to fabricate the functional coatings on dental implants
5	Popov Roman	Palladium(II) and platinum(II)-mediated coupling of mercaptoazoles with coordinated isocyanides
5	Potapenkov Vasily	Synthesis of isoxazole-based S-ylides

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15	Connection test	
15	Rukosuev Kirill	Study of the influence of cation-exchanger type on the sensitivity of potentiometric sensors to lanthanides
5	Suslonov Vitalii	Tetrachloroplatinate(II) as a promising square-planar halogen binding tecton for crystal engineering
5	Titov Gleb	Photochemical transformation of azidoacrylates into dihydropyrimidines and pyrimidines
5	Vereshchagin Anatolii	New hybrid redox-conducting material for organic batteries
15	Yuskina Ekaterina	Cross-sensitive potentiometric sensors based on anti-crown ether (C ₆ HqF ₄) ₃
15	Podurets Anastasiia	Visible light activated photocatalysts based on Co-doped SnO ₂ nanoparticles for organic dyes and antibiotics degradation
15	Vypritskaia Angelina	Effect of different binders on electrochemical properties of Co ₃ O ₄ anode materials for lithium-ion batteries



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Section Ar, moderator Prof. R. Islamova
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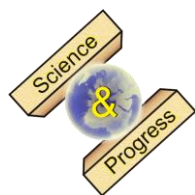
11:15-13:00

15	Connection test	
5	Agafonova Anastasiya	Reactions of 2-bromo-2H-azirines with stannanes: explicit Stille couplings or not?
15	Bardakov Victor	Organoboron derivatives of 1,8-bis(dimethylamino)naphthalene
15	Batyrenko Alina	Synthesis of 2-dichloromethyl-5-aryl-2H-tetrazoles and noncovalent interactions in their crystal structure
5	Gorbunova Yelizaveta	Reactions of 3-phenylpropynitrile and its transformations under superelectrophilic activation conditions
5	Golubev Artem	Reaction of 2-halogen-2H-azirine-2-carboxylic acid derivatives with trimethylsilylazide as a pathway to 2-azidoazirines
15	Grintsevich Sergey	An alternative approach to the hydrated imidazoline ring expansion (HIRE) of diarene-fused [1.4]oxazepines
5	Iqushkina Anastasiya	Synthesis of substituted cyclohexanes by the reaction of linear conjugated enynones with malononitrile
5	Kartsev Dmitrii	1,3-Dipolar cycloaddition of nitrones to 2-(2-oxoindolin-3-ylidene)acetate

Time, min

15:30-17:15

15	Connection test	
15	Katsuba Konstantin	DNA encapsulation in melamine - cyanurate supramolecular assembly
5	Ketova Anna	Self-assembly of bisocyanide complexes of platinum(II) based on halogen bonds
5	Khoroshilova Olesya	Reactions of 2-(1'-Me ₃ SiO-1'-trifluoromethyl-alkyl)benzofuranes with arenes in CF ₃ SO ₃ H
5	Koronatov Aleksandr	Novel Denitrogenative Transannulation of 1-Alkyl-1H-1,2,3-triazoles with Diazo Esters
5	Kovalenko Aleksandr	Optimization of creatinine, L-histidine and 3-methyl-L-histidine separation in human urine via ion-exchange high performance liquid chromatography
5	Kurnosenko Sergei	Efficient liquid exfoliation of layered perovskite-like titanates HLnTiO ₄ and H ₂ Ln ₂ Ti ₃ O ₁₀ (Ln = La, Nd) into nanosheets
5	Levashova Ekaterina	Regiospecific Silver-Catalyzed [3+2] Cycloaddition of Aryl-, Alkyl- and Aminosulfonyl Diazomethanes with Arenediazonium Tosylates
15	Reutskaya Elena	The using of N-aminoalkyl derivatives of thiazepinone dioxides in the HIRE reaction
5	Toikka Yulia	Structure-Directing (Cyanamide)•••Arene Noncovalent Interactions in Cocrystals of Copper(II) Clusters with Arenes
5	Voytovich Vladimir	Preparation of inorganic-organic hybrids based on layered perovskite-like niobate HCa ₂ Nb ₃ O ₁₀ and study of their photocatalytic activity towards hydrogen evolution from aqueous methanol
15	Yakubenko Artyom	Oxidation of triphenylpnictogens in the synthesis of diphenylpnictogenic acids



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Section Au, moderator D. Mamonova

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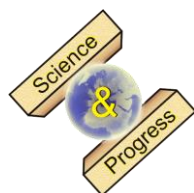
11:15-13:00

15	Connection test	
15	Belhadi Ahmed	Determination of acidity constants (pKa) of cyclic and aliphatic amines by the DFT method and the SOLVATATION SMD model
15	Bogdanova Polina	A novel supramolecular solvent system based on primary amines for microextraction application
5	Guryev Ivan	XRD determination of metals in biodiesel fuel using deep eutectic solvents
5	Khokhlova Anastasiia	Effect of laser radiation on the bioactivity of thiazolotriazole and aminomalonate compounds
5	Timralieva Aleksandra, Klimova Alina	Hydrogen peroxide influence on luminescence of melamine barbiturate particles
5	Levshakova Aleksandra	Direct laser writing of conductive copper microstructures from deep eutectic solvents
15	Medvedev Vassily	Synthesis and characterization of YVO ₄ :Ti, Ni particles
5	Nikiforova Kristina	The effect of subcritical and critical conditions of hydrothermal treatment on the phase formation and dispersity of 4Y ₂ O ₃ -96ZrO ₂ and 8Y ₂ O ₃ -92ZrO ₂ (mol.%) precursors
5	Nosov Viktor	Synthesis of rare-earth metal based luminescent metal-organic frameworks

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15	Connection test	
5	Pikalova Tatyana	Determination of trace elements in human hair samples by optical emission spectrometry with inductively coupled plasma
15	Saveliev Mikhail	Exploring the possibility of using commercial Ca ²⁺ ionophores as the ligands for lanthanide sensors
5	Shubina Irina	Synthesis and characterization of CaWO ₄ : Nd, Er and Tm particles.
15	Timralieva Aleksandra	Crystal growth control of melamine barbiturate through Ni (II) complex formation
5	Vasileva Marina	Synthesis of luminescent NaYF ₄ : Eu ³⁺ , Gd ³⁺ /Lu ³⁺ nanoparticles
5	Vasileva Anna	Laser-induced deposition of different types of metal nanoparticles on nanostructured anodic aluminum oxide surfaces
5	Pogodaev Alexey	Laser-induced synthesis of nickel-based composites as promising materials for fabrication of non-enzymatic sensors
5	Bikbaeva Gulia	The selective deposition of silver particles by interference pattern of laser beam
5	Borisova Anna	The investigation of structure, and dispersity of ternary 86ZrO ₂ -9CeO ₂ -5TiO ₂ precursors
15	Strelnikov Aleksei	SERS of azamacrocycles adsorbed on silver and gold nanoparticles



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Section A

Section Ac, moderator I. Rodionov
Thursday 12 Nov

9:45-11:30

Time, min

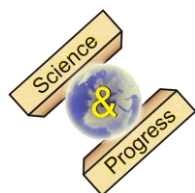
15	Connection test	
5	Badretdinova Vlada	Calcium phosphate biomaterials for targeted drug delivery
15	Beluqina Regina	Application of potentiometric multisensor system and chemometrics for identification of paracetamol formulations origin
5	Gusev Egor	Stability of mixed CH ₄ /N ₂ /CO ₂ hydrates: molecular simulation
5	Ignatova Nina	SELF-HEALING COMPLEXES OF COPOLYSILOXANES WITH FeCl ₃
5	Kaplanova Victoriia	Structure, diffusion and self-diffusion coefficients of proton substituted β-alumina
15	Korostelev Vladislav	Hydrogen bonds formed by arsenic, stilbinic and bismuthinic acids: investigation by means of quantum chemistry
5	Kuzminova Anna	Novel thin-film composite chitosan/PAN for isopropanol dehydration by pervaporation
15	Kuznetsova Anastasiia	Electrokinetic characteristics of nickel-containing glasses in 1:1 and 2:1 charging electrolytes
5	Lavit Kseniia	Investigation of the rearrangement of N-acyl derivatives of N-aryl(heteroaryl)ethylenediamines

Thursday 12 Nov

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Time, min

15	Connection test	
5	Malkova Ksenia	Modified hydroxyapatite nanoparticles for a dispersive micro-solid phase extraction of tetracyclines
15	Panafidin Maxim	O ₂ -induced segregation as an efficient tool for fine-tuning the intermetallic Pd-In/HOPG surface structure
15	Parfeniuk Tatiana	Composition and thermal stability of acetonitrile and pyridine complexes with oxo- and thiophosphoni-um Lewis acids
5	Petrova Anastasiia	Peptides that bind vascular endothelial growth factor
5	Tesfatsion Weini	Determination of enantiomeric chemicals like as D- and L-tyrosines by using machine learning
5	Terno Pavel	Microextraction of Cr (III) and Cr (VI) from water samples using quasi-hydrophobic deep eutectic solvent
5	Sadetskaya Anastasia	Regulation of HAp nanoparticles morphology and thermal properties using surfactant assistant hydrothermal process
5	Fomkina Anna	Enhanced photocatalytic activity of Tb-SnO ₂ nanoparticles with different morphologies for antibiotic degradation
15	Zolotovskiy Konstantin	On application of molecular dynamic simulation for the estimation of stability boundary in liquid-liquid systems
15	Smirnov Aleksei	SERS of diamino- and dimercaptostilbenes on gold bipyramidal nanoparticles hydrosol up to nanomolar concentrations



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Section As, moderator A. Gubal

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15	Connection test	
5	Aliforenko Danil	Effect of microporosity on gas adsorption in CMK-3
15	Baranovskii Egor	Synthesis of azide-containing copolysiloxanes for click chemistry reactions
15	Cherkashina Ksenya	Deep eutectic solvents based on terpenoid compounds and fatty acids as extractants in liquid-liquid microextraction of tetracyclines from food samples
5	Dubrovskiy Ivan	Stability of hydrophobic deep eutectic solvents
5	Gerasimov Artur	Extraction into deep eutectic solvents as an alternative to the microwave decomposition of plant samples for elemental analysis
5	Khramova Alina	Organo-inorganic derivatives of layered perovskite-like oxide $\text{HCa}_2\text{Nb}_3\text{O}_{10}$ with monoethanolamine and aminoacetic acid
15	Kurnosenko Sergei	Synthesis of organically modified layered perovskite-like titanates $\text{H}_2\text{Ln}_2\text{Ti}_3\text{O}_{10}$ ($\text{Ln} = \text{La}, \text{Nd}$) and their photocatalytic activity towards hydrogen production from aqueous methanol
5	Lesnikova Liana	One-pot route to N-acyl ureas: a formal four-component hydrolytic reaction
15	Liubichev Dmitrii	Usage of choline chloride based deep eutectic solvents for separation of azeotropic mixtures

Time, min

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15	Connection test	
5	Lyalkin Yegor	Application of glow discharge time-of-flight mass spectrometry with combined hollow cathode cell for depth profiling
15	Misikov Georgii	On application of artificial neural networks for the analysis of vapor-liquid equilibria in multicomponent systems
5	Nebalueva Anna	UV-Vis study of barbituric acid Knoevenagel condensation
5	Sakharov Pavel	Synthesis of Azirine-containing Dipeptides and Depsipeptides by Multicomponent reactions of Azirine-2-carboxylic acids
5	Serykh Tatyana	Precipitation of biomimetic hydroxyapatite in the presence of amino acids
15	Sokolova Elina	Relationship between polymorphism and non-covalent interactions in crystal structure of cyclometalated platinum(II) complexes with isocyanide ligands
5	Sorokina Angelina	Elemental analysis of fluorine-rich ionic conductors by pulsed glow discharge mass spectrometry
5	Stepanova Kira	Automated dispersive liquid-liquid microextraction as an efficient sample treatment technique for the HPLC-FL determination of PAHs in tea
5	Usikova Elizaveta	Determination of acrylamide by liquid chromatography with deep eutectic solvent
5	Volodina Natalia	A voltammetric determination of Pb^{2+} , Cd^{2+} in edible oil using deep eutectic solvent