



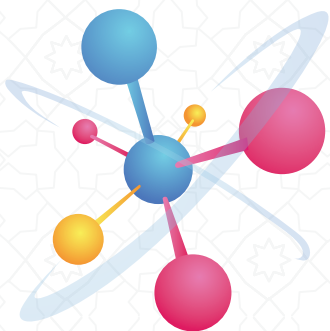
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**ISFM**

International Conference on  
**INNOVATIVE SYNTHESIS  
AND FUNCTIONAL MATERIALS**

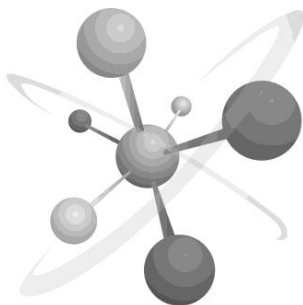
BAKU ENGINEERING UNIVERSITY



International Conference on  
**INNOVATIVE SYNTHESIS  
AND FUNCTIONAL MATERIALS**

**SCIENTIFIC  
PROGRAM**

**23-25 APRIL 2026**  
**[www.beu.edu.az](http://www.beu.edu.az)**



International Conference on  
**INNOVATIVE SYNTHESIS  
AND FUNCTIONAL MATERIALS**

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**23-25 APRIL, 2026 / BAKU, AZERBAIJAN**

# **SCIENTIFIC PROGRAM**



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**INNOVATIVE SYNTHESIS  
AND FUNCTIONAL MATERIALS**

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International Conference on  
**INNOVATIVE SYNTHESIS  
AND FUNCTIONAL MATERIALS**

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**Naila Mammadova**

*Baku Engineering University*

**Nazrin Osmanova**

*Baku Engineering University*

**DESIGN:**

**ILHAM ALIYEV**

*Baku Engineering University*

## TIME-TABLE OF THE CONFERENCE

<b>23 APRIL (THURSDAY)</b>	
09:00 – 10:00	Registration
10:00 – 11:00	Opening Ceremony
11:00 – 12:00	Plenary Session I
12:00 – 12:20	Coffee break
12:20 – 13:00	Plenary Session II
13:00 – 14:30	Lunch break
14:30 – 15:45	Section "Organic Chemistry and Fine Organic Synthesis. Renewable Energy and Green Technologies" (Hall 1)
	Section "Physical chemistry and Catalytic Processes. Modern Approaches to Inorganic Material Synthesis. Modern Analytical Chemistry Methods. Nanomaterials and Nanostructured Systems " (Hall 2)
	Section "Biotechnology" (Hall 3)
	Section "Advanced Polymers and Composite Materials" (Hall 4)
	Section "Petrochemical synthesis" (Hall 5)
15:45 – 16:00	Coffee break
16:00 – 17:30	Section "Organic Chemistry and Fine Organic Synthesis. Renewable Energy and Green Technologies" (Hall 1)
	Section "Physical chemistry and Catalytic Processes. Modern Approaches to Inorganic Material Synthesis. Modern Analytical Chemistry Methods. Nanomaterials and Nanostructured Systems " (Hall 2)
	Section "Biotechnology" (Hall 3)
	Section "Advanced Polymers and Composite Materials" (Hall 4)
	Section "Petrochemical synthesis" (Hall 5)

<b>24 APRIL (FRIDAY)</b>	
10:00 – 11:30	Plenary Session III
11:30 – 11:45	Coffee break
11:45 – 14:00	Section "Organic Chemistry and Fine Organic Synthesis. Renewable Energy and Green Technologies" (Hall 1)
	Section "Physical chemistry and Catalytic Processes. Modern Approaches to Inorganic Material Synthesis. Modern Analytical Chemistry Methods. Nanomaterials and Nanostructured Systems" (Hall 2)
	Section "Biotechnology" (Hall 3)
	Section "Advanced Polymers and Composite Materials" (Hall 4)
	Section "Petrochemical synthesis" (Hall 5)
14:00 – 15:00	Lunch break
15:00 – 16:30	Section "Organic Chemistry and Fine Organic Synthesis. Renewable Energy and Green Technologies" (Hall 1)
	Section "Physical chemistry and Catalytic Processes. Modern Approaches to Inorganic Material Synthesis. Modern Analytical Chemistry Methods. Nanomaterials and Nanostructured Systems " (Hall 2)
	Section "Biotechnology" (Hall 3)
	Section "Advanced Polymers and Composite Materials" (Hall 4)
	Section "Petrochemical synthesis" (Hall 5)
16:30 – 16:45	Coffee break
16:45 – 17:45	Closing Ceremony (Hall 1)

<b>25 MARCH (SATURDAY)</b>	
11:00	Coach travel and excursions

**THE PLACE WHERE THE CONFERENCE WILL BE ELD:**

**ZOOM**

**brightzoom114@gmail.com**

Conference2026@

**ZOOM-2 HOST**

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**BAKU ENGINEERING UNIVERSITY**

*120 Hasan Aliyev str., Khirdalan city AZ0101, Azerbaijan*

**23 APRIL (THURSDAY)**

# **PROGRAM**

**INTERNATIONAL CONFERENCE ON INNOVATIVE  
SYNTHESIS AND FUNCTIONAL MATERIALS  
(ISFM, APRIL 23-25, 2026)**

**10:00-11:00**

**OPENING CEREMONY**

**HALL 1**

**JOIN ZOOM**

**Meeting ID: 899 3824 7896**

**Passcode: 032025**

**Yagub Piriye** – *Rector of Baku Engineering University*

**Sergey Mikhailovich Aldoshin** - *Vice-President of the RAS*

**Valentin Georgievich Nenaydenko** - *Cor. Member of RAS*

**Rufat Azizov** - *Rector of Azerbaijan State Oil and Industry University*

**Acad. Dilgam Taghiyev** - *Vice-president of ANAS*

**Acad. Abel Maharramov** - *Baku State University*

**Acad. Adil Garibov** - *Azerbaijan National Academy of Sciences*

**Acad. Vagif Farzaliyev** - *Azerbaijan National Academy of Sciences*

**Acad. Vagif Abbasov** - *General Director at Institute of Petrochemical Processes*

**Leonid Voskresenskiy** - *Dean of the Faculty of Science, RUDN*

**Sevil Yücel** - *Yildiz Technical University*

**11:00-12:00**  
**PLENARY SESSION (I)**

**HALL 1**

**JOIN ZOOM**  
**Meeting ID: 899 3824 7896**  
**Passcode: 032025**

1. **Prof. Valentine G. Nenajdenko.** Design and synthesis of phenanthroline diamides for f-element separation (Lomonosov Moscow State University, Russia)
2. **Prof. Sevil Yücel.** Therapeutic ion-modified bioactive glass-integrated polymeric dressings for accelerated healing of diabetic wounds (Yildiz Technical University, Turkey)
3. **Prof. Muhammad Nawaz Tahir.** Design, Synthesis, and Characterization of Sulphonamide-Derived Carboxylates and Schiff Bases For complexation (University of Sargodha, Pakistan)

**12:00-12:20**      **COFFEE BREAK**

**12:20-13:20**  
**PLENARY SESSION (II)**

**HALL 1**

**JOIN ZOOM**  
**Meeting ID: 899 3824 7896**  
**Passcode: 032025**

1. **Prof. Leonid G. Voskressensky.** Electro-deficient alkynes-universal synthons for producing condensed aza-heterocyclic systems (RUDN, Russia)
2. **Prof. Fliur Zainutdin Macaev.** Nanoscale organic materials: from forecasting to application prospects (Moldova State University, Moldova)
3. **Prof. Alexander G. Tskhovrebov.** Towards catalysis with ambiphilic selenyl reagents (RUDN, Russia)

**13:30-14:30**      **LUNCH BREAK**

14:30-15:45

SECTION I

**“ORGANIC CHEMISTRY AND FINE ORGANIC SYNTHESIS.  
RENEWABLE ENERGY AND GREEN TECHNOLOGIES”**

**HALL 1**

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Namiq Shikhaliyev, Nubar Musazada*

1. **Mammadova T.A., Karimli R.D.** Sustainable production of diesel fuel additives from second-generation biomass
2. **J.A.Aghakishiyev, A.I. Muradova** Grape seed oil, a by-product of wine production
3. **S.M.Abbaszade, R.A. Alizade, Sh.D. Shirinov, G.T. Valiyeva, T.S. Aliyev, X.A. Abbasova,** Synthesis, mechanism and spectral study of nitroderivatives of sunflower oil-based soapstock acids
4. **Huseynova Peri, Zeyniyev Senan,** Plant-derived dual-functional bioadsorbent for water purification
5. **Sohaila Andleeb,** Green synthesis of dihydropyrimidin-2(1H)-thione derivatives using hydrogermane as highly efficient catalytic system
6. **E.F.Nasirli, M.J. Ibrahimova, M.Kh. Mammadov, S.R. Rafiyeva, A.M. Aslanbeyli, V.I. Bakhshiyeva, G.N. Hasanova, F.A. Nasirov,** Highly efficient zinc phenolate and ionic liquid catalysts for ethylene carbonate synthesis
7. **F.A.Nasirov, S.R. Rafiyeva, A.M. Aslanbeyli, V.I. Bakhshiyeva,** Synthesis of carboxymethyl derivatives of chitosan
8. **N. Sucman, D. Bilan, V. Pogrebnoi, F. Macaev,** HCL-mediated ring opening of steroidal epoxides: reaction pathways and product distribution
9. **N.M. Babayev, B.M. Mammadova, T.G. Zeynalova, S.A. Hasanova,** Alkylation of mesitylene with 2-(2-propenyl)-3- chloromethyloxirane in the presence of lewis acids
10. **Isakova B.R., Sujayev A.R., Nazarov N.M., Isakov M.E.,** Synthesis and ft-ir study of Ni(II) metal complex with ethyl 6-ethoxy-4-methyl-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate
11. **Yong Liu,** Key components For Proton Exchange Membrane Fuel Cells

## SECTION II

### “PHYSICAL CHEMISTRY AND CATALYTIC PROCESSES. MODERN APPROACHES TO INORGANIC MATERIAL SYNTHESIS. MODERN ANALYTICAL CHEMISTRY METHODS. NANOMATERIALS AND NANOSTRUCTURED SYSTEMS”

#### HALL 2

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Dunya Babanlı, Roya Nazarova*

1. **A.Z.Zalov, A.T.Huseynova, K.A.Kuliyev, H.İ.İbrahimov**, Copper(II) complexes with 1-[ortho-tolyl(phenyl)amino]-propane-2-thiol
2. **Allahverdiyev T.S., Ilyasly T.M., Gahramanova G.G.**, Investigation of the dissolution rate of glasses in the Fe–As–Se system
3. **Abbasova R.F., Ilyasly T.M., Veysova S.M., Gahramanova G.H.**, Character of interaction in the  $As_2Te_3 - Dy_2Te_3$  system
4. **Aliyeva G.M., Hasanova S.S, Rahmanova S.Y., Movsumov E.M**, Synthesis and structure investigation of mono-(2-nitroterephthalato)-mono aqua sodium (I) hydrate
5. **Yegana Bakirova, Gunel Baxshiyeva**, The interrelationship between physics and mathematics: implications for scientific knowledge and education
6. **Veysalzade I.J., Gahramanova G.K., Yunusova Z.A., İbragimov G.B., Babanlı D.M.**, Theory guided DFT analysis for assessing the energy storage potential of transition metal dichalcogenides.
7. **Rasulov Ch.K., Zalov A.Z., İbrahimov H.I., Movsumova A.Kh. Huseynova G.A.**, Cobalt(II) complexes of piperidinomethyl phenols and their application to the determination of cobalt in Baku oil
8. **F.I.Asadova, F.I.Ostonov, J.H. Jumayev**, Infrared spectroscopic analysis of the copolymer obtained based on tetraethoxysilane and acrylic acid
9. **A.R.Aliyev, A.A. Israyilova, U.A. Hasanova, A.R. Ismayilov**, Surface functionalization of surgical meshes with modified bentonite nanoparticles for advanced antimicrobial and controlled release applications
10. **N.V. Nasirova, Z.Sh.Talibzadeh**, Impact of nanoparticles on soil and aquaculture ecosystems the role of catalytic processes in improving the efficiency of hydrocarbon resources
11. **A.N. Bilyachenko, V.N. Khrustalev, K.G. Ragimov**, Cage-like metasilicates-quinoxanes: self-assembly features and functionalities
12. **F.I. Babayeva, E.Y. Malikov**, Synthesis of CDS nanoparticles in a recycled polyurethane matrix by the sol-gel technique

**SECTION III**  
**BIOTECHNOLOGY**

**HALL 3**

**- JOIN ZOOM -**  
**Meeting ID: 899 3824 7896**  
**Passcode: 032025**

*Moderators: Ravan Rahimov, Afaq Rzayeva*

1. **F.Y.Hajiyeva, S.A.Ibrahimova, S.H.Mukhtarova, N.G.Shikhaliyev, G.T. Atakishiyeva**, Comparative ddi risk and cyp interaction fingerprint of hydrazone-based compounds
2. **J.E.Elyasova, F.C.Agalarova, A.M.Gajar, S.H.Muhktarova, G.T. Atakishiyeva**, In silico toxicological assessment of benzenesulfonic acid-based hydrazone derivatives using adverpred
3. **A.S.Karimova, A.M.Gajar, U.F.Askerova, S.A.Miriyeva, G.T. Atakishiyeva**, Comparative in silico anticancer activity prediction of hydrazone derivatives
4. **A.R.Rasulova, A.A.Babazade, N.E.Ahmedova, U.F.Askerova, N.Q.Shikhaliyev, G.T. Atakishiyeva**, Quantitative gusar-based prediction of antitarget interaction profiles for benzenesulfonic acid-based hydrazone derivatives
5. **A.S. Mammadova, O.V. Askerov, A.F. Mamedova**, Synthesis and study of the antimicrobial properties of n-substituted ureas
6. **Makhmudova L.A., U.S. Muradov., Nadjafli M.R.**, Study of the protective effect of nitro-nitroso adducts against microbiological corrosion
7. **N.M. Nagiyeva, N.V. Gurbanova, G.T. Atakishiyeva**, Computational toxicological assessment of benzenesulfonic acid-based hydrazones
8. **Orxan Qasimzade**, CRISPR/CAS9 as modern therapeutic approach to cancer disease: biochemical and material-based frameworks
9. **Aysel Habil Asgarova, Kamandar Shukur Dashdamirov, Tamara Yuriy Abbasova**, Effect of feed supplement on protein and amino acid composition of meat
10. **E.I. Tavakkulov**, An AI-supported medical social network for continuous health monitoring and early disease detection

## SECTION IV

### ADVANCED POLYMERS AND COMPOSITE MATERIALS

#### HALL 4

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Fariz Amirli, Punhan Jamalov*

1. **Tural Gojaye Latif**, Application of an integrated fuzzy-topsis framework for optimal selection of advanced composite materials in engineering design
2. **Esmira Arif Aga Guliyeva, Ajdar Akper Mejidov, Rayyat Huseyn Ismayilov, Malahat Bagiyeva Rustam, Füreya Elif Öztürkkan, Asgarova Tarana Yashar**, Polymer complex of copper(ii) with maleic acid: synthesis, structure, properties
3. **N.N.Mehdiyeva, M.I.Karimbeyli**, Synthesis and investigation of functional properties of polymer-based materials for energy storage systems
4. **Aysel Hamzayeva**, Thermally stimulated depolarization current analysis of electret properties in ldpe-BI<sub>2</sub>TE<sub>3</sub> polymer composites
5. **A.Patidinov, X.Sotvoldiyev, A.Ibadullaye, E.Teshabayeva , M. Vapayev**, Use of gas pyrolysis resin still bottoms as a plasticizer in elastomers
6. **Gojaye T. L.**, Application of an integrated fuzzy-topsis framework for optimal selection of advanced composite materials in engineering design
7. **Gojaye T. L.**, Integration of fuzzy-ahp and copras methods for cutting tool material selection in high-speed machining of hardened steel
8. **Gojaye T. L.**, A hybrid fuzzy-ahp and moora approach for fiber-reinforced polymer composite selection in aerospace wing spar manufacturing
9. **S.S. Fatullayeva, N.A. Zeynalov, D.B. Tagiyev, A.R. Quliyeva**, Preparation of modified polymer enterosorbents for efficient heavy metal ion binding
10. **N. Sucman, R. Rzayev, I. Geru, B. Mammadov, E. Ibadov, F. Macaev**, Formation and structure of a p-phenylenediamine-resorcinol co-oligomer obtained by oxidative copolycondensation
11. **M.N.Amiraslanova, Sh.R.Aliyeva, N.R.Abdullayeva, P.E.Isayeva, N.R.Bek-tashi**, Study of monoalkyl(C8-C12)phenolformaldehyde oligomers functionalized with imidazolines based on cotton and palm origin fatty acids by gel-permeation chromatography

## SECTION V

### PETROCHEMICAL SYNTHESIS

#### HALL 5

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Nizami Mursalov, Narmina Quliyeva*

1. **Iskenderova A.A., Mammadov M.T., Abasov S.I., Isayeva Y.S., Imanova A.A., Suleymanova T.I., Nasibova A.R.**, Co-conversion of straight-run gasoline and associated petroleum gases over composite catalysts
2. **Asgar-zadeh S.M., Urban O.B, Eldarova S.H., Javadova M.N., Khudiyeva İ.A., Azizova F.N., Mammadova X.M, Abbasova Z.E.**, The role of catalytic processes in improving the efficiency of hydrocarbon resources
3. **U.S. Muradov, E.K. Hasanov, S.M. Abbaszadeh, R.M. Farhadova, R.A. Ali-zadeh, V.J. Gasimov**, Preparation and investigation of the properties of metal palmitate-derived antistatic additives for diesel fuel
4. **Gurbanova R. Ulviyya, Rasulov K. Chingiz**, Synthesis of para-(1-methyl-cyclohexyl) phenol using modified ZSM-5 catalyst
5. **V.İ.Karimli, F.R.Shikieva, B.A.İsmailova, Q.İ.Kəlbəliyev**, Rheological characterization of crude oils produced from azerbaijan oil fields
6. **T.A. Ismailov, R.M.Farhadova, R.A.Alizada, S.Q.Rzayeva, T.S.Aliyev**, corrosion and salt precipitation inhibitory properties of mono-, di-, tri- sodium salts of propylamide derivatives of ethylenediaminetetraacetic acid
7. **Sadiyeva N.F., Afandiyeva L.M., Nasibova G.G.,Asadova Sh.N., Hasanova T.Ch, Hasanli N.S.**, Study of the reaction of esterification of petroleum acids with diethylene glycol
8. **Hajiyeva G.F., Naghiyeva M.V.**, Cycloalkylation of para-cresol with methyl esters of cyclohexenecarboxylic acids using a zeolite-containing KN-30 catalyst
9. **N.R. Abdullayeva, R.Y. Kaziyeva**, Conservation fluids based on mineral oils "T-22", "T-46", "T-1500" and bisimidazolines
10. **L.I. Aliyeva, S.S. Goyushlu ,N.V. Aliyeva, F.M. Hasanova, N.İ.Bayramzada**, Transformation of Petroleum Bitumen with the Participation of Elastoplastic

15:45-16:00

COFFEE BREAK

## SECTION I

### ORGANIC CHEMISTRY AND FINE ORGANIC SYNTHESIS. RENEWABLE ENERGY AND GREEN TECHNOLOGIES

#### HALL 1

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Namiq Shikhaliyev, Nubar Musazada*

1. **T.A. Mammadova, G.J. Ahmadova**, Catalytic and non-catalytic pyrolysis of pine wood residues: effects on bio-oil, biochar, and gas production
2. **A.R.Nəcəfli, L.İ. Əliyeva**, Synthesis of complex salts based on fatty acids isolated from linseed and safflower oils and investigation of their surface-active properties
3. **G.P. Valadova, Y.A. Abdullayev**, Optimization of catalyst loading and assessment of catalyst effects on the yield of 5-hydroxymethylfurfural produced from sucrose in dmsO and dma systems
4. **P.I. Karimli Garayeva, E.M. Babayev, S.B. Ismikhanly, K.Sh. Alakbarova, A.J. Efendi**, Catalytic esterification of  $\gamma$ -valerolactone with C4–C5 alcohols into valerate esters as sustainable biofuel components
5. **Isakov M.E., Sujayev A.R., Isakova B.R., Mahmudov I.H., Aliyeva L.N.**, Synthesis of substance 2-(4-amino-6-(thiophen-2-yl)-5,6-dihydro-1,3,5-triazin-2 (1H)-ylidene) malononitrile with pharmacological and biological properties
6. **Alesgerova O.M., Karimov P.M., Aliyeva S.G., Jafarova A.A.**, Synthesis and research of allyl ester of P-chlorobenzoic acid with the participation of perchloric acid catalyst
7. **Voskressensky L.G.**, Electron-deficient alkynes – universal synthons for producing condensed aza-heterocyclic systems
8. **N.R. Zeynalli, A.S. Namazova, N.E. Ahmedova, N.V. Gurbanova, A.T. Xəlilova, A.M. Maharramov**, Antimicrobial activity of the tris-(2,4-bis(trichloromethyl)-1,3,5-triazapentadienato)-Co(III) complex
9. **A.A. Babazade, N.E. Ahmedova, N.V. Gurbanova, A.S. Karimova, F.Y. Həjiyeva**, Synthesis of e/z isomers of methyl-2-(4-fluorophenyl)-2-(2-phenylhydrazinylidene) acetate
10. **A.A. Babazade, N.E. Ahmedova, S.A. Miriyeva, U.N. Guliyeva, J.V. Nuriyeva**, Pharmacokinetic and toxicological properties of methyl-2-(4-fluorophenyl)-2-(2-phenylhydrazinylidene)acetate
11. **Jiayi Xu**, Phosphenes in annulation for synthesis of phosphaheterocycles

## SECTION II

**PHYSICAL CHEMISTRY AND CATALYTIC PROCESSES. MODERN APPROACHES TO INORGANIC MATERIAL SYNTHESIS. MODERN ANALYTICAL CHEMISTRY METHODS. NANOMATERIALS AND NANOSTRUCTURED SYSTEMS**

### HALL 2

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Dunya Babanli, Roya Nazarova*

1. **A.A. Ahmadova, A.N. Sultanova, N.I. Yagubov, Y.I. Jafarov, F.T. Akbarova**, Synthesis and investigation of some physicochemical properties of  $SRGA_2X_4$  (X = S, SE, TE) compounds
2. **Aliyev K.A., Mammadova S.O., Sultanova A. N., Ahmadov A.I., Aliyeva G.C., Faxraddinova A.P.**, Study of the phase diagram in the  $ZnTe - HO_2TE_3$  system
3. **G.Y. Yahyayeva, A.M. Maharramov, İ.H. Mahmudov, N.G. Shikhaliyev**, Ligand synthesis from dicyanomethane, dicyandiamide and 4-methoxy benzaldehyde. structural analysis and characteristics
4. **Aytan Abdullayeva, Ikhtiyar Bakhtiyarly, Vilayat Mammadov, Turana Babayeva, Salima Mammadova**, Comparative study of glass formation in the  $La_2S_3-Ga_2S_3-Nd_2S_3$  quasi-ternary system
5. **G. A. Akverdiyeva, U. F. Askerova, S. D. Demukhamedova**, Quantum-chemical calculations: comprehensive analysis of the electronic structure of (Z)-3-(2-phenylhydrazinylidene)benzofuran-2(3H)-one and its derivatives
6. **Orujova Nargiz Saday, Jafarova Rena Ali, Mammadov Ayaz Muzaffar**, Quantum-chemical investigation of 2-(4-methoxyphenyl)-4,5-diphenyl-1-(4 (phenyldiazenyl)phenyl)-1H-imidazole
7. **Balci Ş., Doç. Dr. Aslan A.**, Synthesis and characterization of indolicidin and bactenecin peptides and incorporation into antibacterial nanofiber composites
8. **Ahmadli.N.Z.**, Effect of complex nanomodifiers on the rheological properties of cement systems
9. **Sabirov Rafer Farmayil, Khidirov Akif Shakir**, Nanomaterial-based sensors for measuring ammonia concentration in medical applications

10. **Yunusova Z.Y, Babanly D.M, Veysalzade IJ, Gahramanova G.K,** Green and cost-effective synthesis of MOS<sub>2</sub> transition metal dichalcogenides via bottom-up hydrothermal and top-down liquid phase exfoliation approaches.
11. **Mammadov R.S., Guliyeva R.S., Babayeva T.A.,** Synthesis of doped carbon quantum dots (CQDs) via hydrothermal method
12. **Şule Balcı, Ayşe Aslan,** Synthesis and Characterization of Indolicidin and Bactenecin Peptides and Incorporation into Antibacterial Nanofiber Composites

### SECTION III

#### BIOTECHNOLOGY

#### HALL 3

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Ravan Rahimov, Afaq Rzayeva*

1. **V.M.Suleymanova, S.A.Ibrahimova,** In silico target class prediction of benzenesulfonic acid-based hydrazone derivatives
2. **F.A.Almazova, K.A.Garazade,** Boiled-egg model prediction of oral absorption and blood-brain barrier permeability of benzenesulfonic acid-based hydrazone derivatives
3. **G.V.Aydamirova, N.V.Gurbanova, K.A.Garazade,** In silico cytotoxicity evaluation of benzenesulfonic acid-based hydrazone derivatives against breast cancer cell lines
4. **F.A.Dadashofa, S.H.Mukhtarova, G.V.Babayeva,** Predicted gene expression modulation and biological interpretation
5. **M.T.Mahmudova, I.E.Suleymanov,** Structure-activity, adme and cytochrome P450-mediated metabolic profiling of selected benzenesulfonic acid hydrazone derivatives: an in silico study
6. **S.C. Zeynalli, S.A.Kazimov,** In silico pharmacokinetic and drug-likeness evaluation of hydrazone derivatives

7. **Z.T.Ismayilova, A.T.Khalilova, G.V.Babayeva, A.M.Maharramov**, In silico evaluation of biological activity, gene expression modulation, and metabolic reactivity of benzenesulfonic acid-based hydrazone derivatives
8. **S. Yucel, G. Keles, A.C Ozarслан, C. Ozel, T.M. Temel-Soylu, O. Kirgiz, H. Ozkan, M. E. Altug, I. T. Kara**, Therapeutic ion-modified bioactive glass-integrated polymeric dressings for accelerated healing of diabetic wounds
9. **L. Lupascu, G. Lupascu, E. Stîngaci, M. Ceabanova, S. Pogrebnoi, F. Macaev**, Antifungal activity (*fusarium culmorum*) of some nitrogen-containing cyclic compounds
10. **G.Z. Mammadova, S.A. Miriyeva, E.I. Akhmadov, G.T. Atakishiyeva, T.R. Gurbanova**, Comparative toxicity analysis of 1,2-bis(4,6-dimethylpyrimidin-2-yl)ditellane and 1,2-bis(4,6-dimethylpyrimidin-2-yl)diselane compounds in the protox-iii program

## SECTION IV

### ADVANCED POLYMERS AND COMPOSITE MATERIALS

#### HALL 4

- JOIN ZOOM -

**Meeting ID: 899 3824 7896**

**Passcode: 032025**

*Moderators: Fariz Amirli, Punhan Jamalov*

1. **M.N.Amiraslanova, F.A.Mamedzade, R.A.Rustamov, N.P.Yaqubova, T.D. Bayramova**, Study of the structure of oligomer oxypropylates of imidazole-nes based on palm origin fatty acids and polyamines by ir spectroscopy
2. **V.V. Mammadov, A.Ə.Quliyev**, Investigation of the effect of lubricating composites containing dispersed graphite and copper sulfide additives on the tribotechnical characteristics of friction pairs made of different materials in friction units.
3. **Sedef Kaptan Usul, Ayşe Aslan**, The role of fiber materials in enhancing proton exchange membranes
4. **R. Rzayev, N. Sucman, I. Geru, B. Mammadov, E. Ibadov, M. Neamtu, F. Macaev**, Oxidative polymerization of aromatic o-phenylenediamine–resorcinol systems for the formation of nano-sized co-oligomers

5. **N.N.Mehdiyeva, M.I.Karimbeyli**, Synthesis and investigation of functional properties of polymer-based materials for energy storage systems
6. **U.Shaozimova, J.Ziyamukhamedov**, Investigation of the structure and properties of epoxy-siloxane composite materials based on basalt fiber waste
7. **M. Abdulakimov, B. Nematov, U. Ziyamuhamedova, A. Soliev, Z. Jalalova**, The role of a bifunctional hardener in the formation of strength properties of composite polymer materials
8. **K.B.Jamalova**, Modified high-strength fiber-reinforced concrete
9. **Ismatov Sherzod Aktam ugli**, Adhesion properties of modified polymers based on industrial waste
10. **M. Abdulakimov, U.A. Ziyamuhamedova, A.F. Soliyev, L.Y. Bakirov, U.X. Shaozimova, Z.X. Jalolova**, Chemical formation and tribological properties of hybrid structures in polymer heterocomposite materials

## SECTION V

### PETROCHEMICAL SYNTHESIS

#### HALL 5

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Nizami Mursalov, Narmina Quliyeva*

1. **Ravan A. Rahimov, Sama Mammadova, Inara V. Amirova, Khuraman A. Mammadova, Konul Sh. Tagiyeva**, Novel cationic ionic liquid surfactants with cyclic head groups: micellization, adsorption, and environmental applications
2. **Khamis Abiyev, Elvira Guseinova**, Ozone-assisted oxidative desulfurization of vacuum gas oil
3. **Ramin Musaev**, The concept of oil refining and petrochemical synthesis and closed-loop economics for solving environmental problems in oil refining, petrochemical synthesis, and oil and gas production
4. **Akberov N.A., Movsumova A.X., Guliyeva N.A.**, New type multifunctional additives for lubricating oils

5. **A. Z. Mammadova, S. B. Ismayilova, S.E. Mammadov, N.F. Akhmedova,** Conversion of methanol into hydrocarbons over modified ZSM-5 zeolite-based catalysts
6. **P.F. Seyidaliyeva Aslanova,** Chemical cleaning strategies for the treatment of petroleum wastewater
7. **A.N. Asadova , T.A. Babayeva, Kh.M. Mammadova, S.E. Mammadov, T.T. Ismailova,** Conversion of bioethanol into hydrocarbons over rare-earth-metal-modified ZSM-5 zeolite
8. **E.S. Mammadov, Kh.M. Mammadova, F.Sh. Kerimli, S.E. Mammadov, N.F. Akhmedova,** Selective production of light olefins ( $C_2-C_4$ ) from bioethanol over zinc and phosphorus modified HZSM-5 zeolite.
9. **Abbasov V.M., Mammadova T.A., Movsumova P.A., Mammadova N.M., Suleymanova S.S., Ismayilova X.R., Aslanova S.I.,** Investigation of the hydrocracking process of heavy catalytic cracking phlegm
10. **Mamadova S.I., Ladokhina N.P., Askarova K.T., Aghazade A.A.,** Selection of adsorbent for the regeneration of used synthetic aviation engine oil (turbonikoil-321) and the effect of its amount on oil yield

**24 APRIL (FRIDAY)**

**10:00-11:30  
PLENARY SESSION**

**HALL 1**

**JOIN ZOOM  
Meeting ID: 899 3824 7896  
Passcode: 032025**

1. **Prof. Denis Aleksandrovich Vinnik.** Functional oxide materials. (Head of Department at South Ural State University, Russia)
2. **Assoc.Prof. Ayshe Aslan Canpolat.** Advanced Membrane Technologies for High-Temperature PEM Fuel Cells (HT-PEMFCs). (Gebze Technical University, Turkey)
3. **D.Sc. Alexey N. Bilyachenko.** Cagelike metallasilsesquioxanes: self-assembly features and functionalities. (RUDN, Russia)

**11:30-11:45**

**COFFEE BREAK**

11:45-14:00

SECTION I

**“ORGANIC CHEMISTRY AND FINE ORGANIC SYNTHESIS.  
RENEWABLE ENERGY AND GREEN TECHNOLOGIES”**

**HALL 1**

**- JOIN ZOOM -**

**Meeting ID: 899 3824 7896**

**Passcode: 032025**

***Moderators: Namiq Shikhaliyev, Nubar Musazada***

1. **Gunel Ramiz Azimova, Zuleykha Fikret Aleskerova, Sima Mamed Zulfugarova**, “Green” catalyst for carbon monoxide oxidation
2. **A.B.Hajiyeva, Sh.B.Albaliyeva, G.F.Alihasanova, R.T.Azimova**, Natural essential oils: the unity of chemistry and plants
3. **A.R. Najafli, L.I. Aliyeva**, Synthesis of complex salts based on fatty acids isolated from linseed and safflower oils and investigation of their surface-active properties
4. **Aysel Abbasova, Naila Mammadova, Lale Məmmədova, İdrak Hüseynov**, Production of eco-ethanol from bread waste via fermentation
5. **Natiga Suleymanli, Afsun Sujayev, Yusif Abdullayev, Ibadulla Mahmudov**, Strategic synthesis and structural elucidation of a nitrogen-rich functional framework LG-10 derived from allantoin and dicyandiamide
6. **Hikmat Shaban, Natiga Suleymanli**, Synthesis and investigation of a multi-component reaction based on allantoin, dicyandiamide, and ethanolamine
7. **Nazarov N. M, Mahmudov I.H, Babayev S.S, Rzayeva I.A, Ahmadova C.C.**, Synthesis, studies, structure and properties of halogen - substituted pyrimidine - thione derivatives
8. **Mamadova S.I., Ladokhina N.P., Askarova K.T., Aghazade A.A.**, Obtaining dinitrilesulfamides – potential synthons in the synthesis of heterocycles
9. **Safarova Sch, Gasanova LM**, Oxidative conversion of cyclohexanol on a biomimetic catalyst with hydrogen peroxide
10. **Shafiga Ibrahimova, Naila Mammadova, Toghrul Mammadov, Aysel Abbasova, Adil Mammadov**, Synthesis of ((E)-1-(2,2-dichloro-1-(4-phenoxyphenyl) vinyl)-2-phenyldiazene) derivatives

## SECTION II

### PHYSICAL CHEMISTRY AND CATALYTIC PROCESSES. MODERN APPROACHES TO INORGANIC MATERIAL SYNTHESIS. MODERN ANALYTICAL CHEMISTRY METHODS. NANOMATERIALS AND NANOSTRUCTURED SYSTEMS

#### HALL 2

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Dunya Babanlı, Roya Nazarova*

1. **Ali Asgarov, Orxan Qasimzade**, The role of Ca<sub>8</sub>O<sub>8</sub> clusters in construction of artificial points.
2. **G.R.Abdullayeva, M.M.Bashirov, N.S.Rzayev**, Research of the dynamic viscosity in binary mixture of ionic liquid [EMIM][MESO<sub>3</sub>] with methanol
3. **K.G. Pavlov, A.G. Tskhovrebov**, Gold(I) isonitrile complexes as promising luminescent materials and anticancer agents
4. **I.A. Beshimov, V.N. Akhmedov, O.A. Akramov**, Study of synthesised thermostable substance by extraction method
5. **Niyozov Erkin Dilmurodovich, Norov Ilgor Ilkhomovich**, Chemical materials and technologies in autoclaved aerated concrete production
6. **Rahimova A.R., Sultanova S.Q., Mustafayeva K.Z., Ismailov Z.I.**, Synthesis and characterization of hydrogenated schiff base and its nickel complex.
7. **S.H. Mammadova, G.T. Ganbarova, F.M. Sadigov, Y.K. Jafarova**, Chemical interaction in the Bi<sub>2</sub>Te<sub>3</sub>-Pr<sub>3</sub>Te<sub>4</sub> system
8. **T.I. Orujova, G.K.Gahramanova, R.B. Jabbarov**, Effect of temperature on the electrical conductivity of carbon nanotube reinforced polymer nanocomposites
9. **N. Kuytak, A. Yavuzcan, A. Aslan, S. Kaptan Usul**, Design, fabrication, and characterization of novel nanofibrous wound dressings: PVA/CHITOSAN/ZnO and PCL/CHITOSAN/h-BN fiber nanocomposites
10. **M.S. Ayralov, R.A. Mahmudova**, CTAB-modified ZIF-7 nanostructured framework for CO<sub>2</sub> capture and separation processes: combined spectroscopic and DFT study
11. **H.E. Guliyev**, Application of nanomaterials in space architecture and their role in structural optimization
12. **Samira Sultanova, Madina Ramazanli**, Quantitative Study of CO<sub>2</sub> Absorption in Aqueous Sodium Glycinate: Thermodynamic and Concentration Effects

**SECTION III**  
**BIOTECHNOLOGY**  
**HALL 3**  
**- JOIN ZOOM -**  
**Meeting ID: 899 3824 7896**  
**Passcode: 032025**

*Moderators: Ravan Rahimov, Afaq Rzayeva*

1. **G.Z. Mammadova, G.T. Atakishiyeva, A.M. Maharramov, S.A. Miriyeva, R.V. Rustamov**, Comparative analysis of 1,2-bis(4,6-dimethylpyrimidin-2-yl)ditellane and 1,2-bis(4,6-dimethylpyrimidin-2-yl)diselane compounds using the admet program
2. **A.A. Babazade, N.E. Ahmedova, N.V. Qurbanova, U.M. Qojayeva, A.H. Zeynalova**, Calculation of the pharmacokinetic properties of methyl-2-(4-fluorophenyl)-2-(2-phenylhydrazinylidene)acetate
3. **A.I. Mammadova, B. S. Gyarmati**, Synthesis and characterization of thiolated cationic polyaspartamide hydrogels for charge-dependent controlled macromolecular drug delivery
4. **N.F. Sultanova, S.A. Jafarova**, Microbial contribution to bio-cement formation through biomineralization processes
5. **Valiyeva A.B., Abbasov M.A., Mammadov A.O.**, Temporal dynamics and quality implications of the bread microbiome: a biotechnological framework for metagenomic characterization
6. **Ahmadli Dilsad, Coshqun**, Fibroadenomas are the most prevalent benign breast tumors encountered by women, particularly among the younger demographic. While generally benign, their presence is occasionally discussed in the context of an increased risk of developing breast cancer.
7. **F.A. Karimov**, Investigation of salt (NaCl) and drought stress tolerance in introduced and local cotton varieties
8. **Afag Aydin Rzayeva**, Regional variations in seed germination and pretreatment responses of *Juniperus foetidissima* Willd. seeds in Azerbaijan
9. **Nazaket Huseynova, Aysel Pashayeva**, Results of genetic research on stone fruit plants conducted in the northern regions of Azerbaijan
10. **Valiyeva A.B., Abbasov M.A., Mammadov A.O.**, Temporal dynamics and quality implications of the bread microbiome: a biotechnological framework for metagenomic characterization

**14:00-15:00**

**LUNCH BREAK**

15:00-16:30

SECTION I

“ORGANIC CHEMISTRY AND FINE ORGANIC SYNTHESIS.  
RENEWABLE ENERGY AND GREEN TECHNOLOGIES”

HALL 1

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Namiq Shikhaliyev, Nubar Musazada*

1. **Q.B.Balakishiyeva, A.S.Huseynova**, Green chemistry principles for waste-free technologies: the example of rosehip (*Rosa Canina*) in Azerbaijan
2. **T.T.Ismayilova, L.J.Alizada, A.S.Huseynova, S.A.Rahimova, İ.R.Yusifzade**, Application of juniper in green chemistry
3. **Reyhana Ganiyeva**, Seaweed-derived biochar as an efficient catalyst for glycerol carbonate production
4. **Miraya Hasanzade, Elmir Babayev, Konul Alakbarova, Naila Rustamova, Gunel Azimova, Arif Afandi**, Gas phase catalytic oxidation of furfural to maleic anhydride over V-Mo-O/SiO<sub>2</sub>
5. **Peri Huseynova, Namig Shikhaliyev, Naila Mammadova, Aysel Abbassova, Zeki Eliyarli**, Synthesis and Study of (E)-1-(2,2-Dichloro-1-(2,3-Dimethoxyphenyl) Vinyl)-2-Phenyldiazene Derivatives
6. **Reyhana Ganiyeva, Nazrin Zeynalli, Namig Shikhaliyev, Afsun Sujayev, Irada Shikaliyeva, Arzu Shikalizade**, Biocidal activity bis(2,4-bis(trichloromethyl)-1,3,5-triazapenta-dienato) Ni(II) and Cu(II) complexes in coolant and oil systems
7. **Nubar Musazade, Selcan Hasanli, Agaisa Askarov, Araz Osmanov, Irada Shikhaliyeva**, Synthesis of methyl (e)-2-(thiophen-2-yl)-2-(2-(p-substituted) hydrazineylidene) acetate
8. **Nubar Musazade, Namig Shikhaliyev, Naila Mammadova, Aysel Abbassova, Adil Mammadov**, (E)-1-(2,2-dichloro-1-(thiophen-2-yl)vinyl)-2-phenyldiazene derivatives
9. **Selcan Hasanli, Nubar Musazada, İrada Shikhaliyeva, Ayşe Aslan Canpolat** Synthesis of Dichlorodiazodienes in an Ionic Liquid Medium
10. **A.A.Quliyev, E.M.Babayev**, Catalytic depolymerization of polymers for sustainable monomer recovery

## SECTION II

**PHYSICAL CHEMISTRY AND CATALYTIC PROCESSES. MODERN APPROACHES TO INORGANIC MATERIAL SYNTHESIS. MODERN ANALYTICAL CHEMISTRY METHODS. NANOMATERIALS AND NANOSTRUCTURED SYSTEMS**

### HALL 2

- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Dunya Babanlı, Roya Nazarova*

1. **Y.A. Abdulazimova , N.Z. Abdullayeva**, Mathematical modeling of the effect of dislocations in iron on friction risks in iron-fluoroplastic metal-polymer compositions
2. **A. I. Khudiyeva**, Dispersion relation and phase velocity of harmonic waves in continuous media
3. **A.S. Mammadrızayev, M.F. Mammadova, G.R. Mugalova, A.S. Amirova, F.M. Jiragov**, Synthesis and study of new complexes of NI(II) with pyrogallol-based azo compound
4. **A.A. Ahmadova, A.N. Sultanova, N.I. Yagubov, Y.I.Jafarov, F.T.Akbarova**, Synthesis and investigation of some physicochemical properties of  $\text{SrGa}_2\text{X}_4$  (X = S, Se, Te) compounds
5. **Aliyev K.A., Mammadova S.O., Sultanova A. N., Ahmadov A.I., Aliyeva G.C., Faxraddinova A.P.**, Study of the phase diagram in the  $\text{ZnTe} - \text{Ho}_2\text{Te}_3$  system
6. **Esmira Arif Aga Guliyeva<sup>1</sup>, Ajdar Akper Mejidov, Rayyat Huseyn Ismayilov, Malahat Bagiyeva Rustam, Elif Öztürkkan,Asgarova Tarana Yashar, Ganira Balakishiyeva Babashirin**, New mixed-ligand Cu(II), Ni(II), AND Co(II) complexes of maleic acid and 1,3-diaryltriazene: synthesis and investigation
7. **Malahat Bagiyeva Rustam,Esmira Arif Aga Guliyeva,Ajdar Akper Mejidov, Rayyat Huseyn Ismayilov, Ganira Balakishiyeva Babashirin**, Design, synthesis, and structural study of a nickel–amino acid salicyl hydrazide complex
8. **J.R. Imanova, N.M. Binnetova, R.M. Alosmanov**, Synthesis and characterization of iron oxide nanocomposite and commercial ion exchange resin for the removal of hexavalent chromium ions

9. **N.A. Guliyeva, N.E. Musazada, N.E. Gojali, N.K. Osmanova, R. M. Abdul-layev, V.F. Khalilov**, Nanomaterial-assisted approaches for bioactive heterocyclic systems, nanomaterial-assisted approaches for bioactive heterocyclic systems
10. **N.A. Guliyeva, S.M. Hasanli, T.H. Murshudov, E.N. Aliyev, E.M. Azizov, M.E. Ahmadzada**, Eco-friendly nanocomposite materials for wastewater treatment and petrochemical process applications
11. **M.P. Amirli, R.C. Qasimov İ.İ. Mustafayev, A.T. Abdullayeva, R.F. Abba-sova**, EPR Study of graphene-based material obtained by probe sonication of expanded graphite.
12. **Turkan Mahmudova, Rana Khankishiyeva**, Synthesis and investigation of properties of graphene oxide-modified epoxy-acrylic based nanocomposite materials

### SECTION III

#### BIOTECHNOLOGY

#### HALL 3

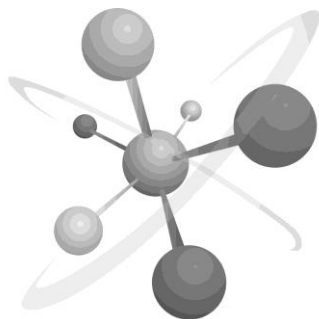
- JOIN ZOOM -

Meeting ID: 899 3824 7896

Passcode: 032025

*Moderators: Ravan Rahimov, Afaq Rzayeva*

1. **Rahimova AR., Sultanova S.Q., Qurbanova T.R., Ismailov Z.I.**, Antimicrobial properties of hydrogenated schiff bases metal complexes
2. **E.A.Azizov, V.A.Vahabova, A.F. Mammadova**, Investigation of the antimicrobial properties of allylmorpholine and styrene
3. **Rena Asadova Ahad, Gunay Ismayilova Elman, Aynur Farzaliyeva Gadji, Rena Bagirzade Zakir, Aygun Alpashayeva Vagif**, Scientific substantiation of the use of ecologically safe bioactive compounds in sustainable agricultural systems
4. **M. Hasanov, R. Bilalov, A. Guliyev**, Innovative effects of phytobiotic feed additives on the morphological and biochemical quality of poultry meat



International Conference on  
**INNOVATIVE SYNTHESIS  
AND FUNCTIONAL MATERIALS**

**23–25 APRIL, 2026 / BAKU, AZERBAIJAN**

All questions you can address  
to Baku Engineering  
University

120 Hasan Aliyev str., Khirdalan city AZ0101, Azerbaijan

☎ (+994 12) 349 99 56, (+994 51) 666 81 30

isfm@beu.edu.comaz

<https://isfm.beu.edu.az/>

