IFSOE
2026

12th International Fall School on Organic Electronics

School Program

September 13-17, 2026
Moscow, Russia
ISPM RAS
http://www.ifsoe.ru

12th INTERNATIONAL FALL SCHOOL ON ORGANIC ELECTRONICS – 2026 (IFSOE-2026)

Organizers

Division of Chemistry and Material Science of Russian Academy of Sciences

The Ministry of Science and Education of Russia

Enikolopov Institute of Synthetic Polymeric Materials of Russian Academy of Sciences (ISPM RAS)

Lomonosov Moscow State University (MSU)

Scientific program

1) ***Fundamentals of organic electronics:*** charge transport, modeling, photophysics, etc.

2) ***Design and synthesis of materials for organic electronics:*** organic conductors and semiconductors, dielectrics, substrates, etc.

3) ***Organic field-effect transistors:*** single crystal, polymer and monolayer OFETs, integrated circuits and related devices.

4) ***Organic light-emitting devices:*** OLEDs and OLETs, white light-emitting devices, TADF devices, organic lasers.

5) ***Organic and hybrid solar cells:*** small molecules and polymer photovoltaics, tandem cells, perovskites-based photovoltaics, etc.

6) ***Organic sensors:*** physical (pressure, temperature, photo, etc.) sensors, chemo- and biosensors.

7) ***Characterization techniques:*** various spectroscopy, microscopy, and x-ray scattering techniques, charge mobility measurements, thermal and surface analysis, HOMO and LUMO evaluation, biomedical applications, etc.

8) ***Technologies of organic electronics:*** printing of organic materials and devices, roll-to-roll techniques, ink formulations, encapsulation, etc.

School-conference Chairs

Prof. Sergey Ponomarenko (Enikolopov Institute of Synthetic Polymeric Materials of RAS, Russia)

Prof. Dmitry Paraschuk (Lomonosov Moscow State University, Russia)

International Advisory Board

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School program

The 12 th International Fall School on Organic Electronics – 2026 Time Schedule

Moscow, Russia (GMT+3)

Time	Sunday September, 13	Monday September, 14	Tuesday September, 15	Wednesday September, 16	Thursday September, 17
10:00	**10:00 - 13:00 Registration at ISPM RAS** **Excursion to the Moscow Kremlin**	School Opening	***Pavel Troshin***	***Dmitry Paraschuk***	***Georgy Pakhomov***
		Valentine Ananikov	**Huiqiong Zhou**	**Dmitriy Ionov**	**Dmitrii Ivanov**
11:00		**Egor Verbitskiy**	**Mahmoud Zendehdel**	**Dmitry Maslennikov**	***Sergey Ponomarenko***
		Aleksandr Yakimansky	Coffee-break		
12:00		Coffee-break	***Carlos Cesar Bof Bufon***	***Alexander Romanov***	School Closing
		Ilya Taydakov			
13:00		**Maxim Kazantsev**	**Elena Poimanova**	**Nikita Dubinets**	Farewell buffet
		Lunch	Lunch		
14:00			**Olga Fedorova**	***Oleg Kharlanov***	
15:00		**Raul David Rodriguez**	Oral talks 3	Oral talks 5	
		Oral talks 1			
16:00		Coffee-break + Poster session 1	Coffee-break +Poster session 2	Coffee-break	
17:00		Oral talks 2	Oral talks 4	Oral talks 6	
18:00		Welcome party			
19:00					

Sunday, September 13

10:00-13:00	**Registration at ISPM RAS**
15:00-16:30	**Excursion to the Moscow Kremlin**

Monday, September 14

10:00-10:15	**School Opening**
	Chair: **Sergey Ponomarenko**
10:15-11:00	**T-1. Valentine Ananikov**. Mechanisms of Catalytic Reactions in Organic Synthesis: How to Discover or Improve The Catalyst?
11:00-11:30	**I-1. Egor Verbitskiy**. 1,4-Diazatriphenylene and its Hetero-Fused Analogues: Synthesis and Applications
11:30-12:00	**I-2. Aleksandr Yakimansky**. Functionalized Polyfluorenes for Optoelectronics and Medicine
12:00-12:30	**Coffee-break**
	Chair: **Aleksandr Yakimansky**
12:30-13:15	**T-2. Ilya Taydakov**. Luminescent Materials Based on Lanthanide Coordination Compounds - Synthesis, Energy Transfer and Prospects for Practical Applications
13:15-13:45	**I-3. Maxim Kazantsev**. Diazafluorenes for Organic Optoelectronics and Sensorics
13:45-15:00	**Lunch time**
	Chair: **Egor Verbitskiy**
15:00-15:30	**I-4. Raul David Rodriguez**. Towards Elastic Electronics: Light-Driven Fabrication of Stretchable Nanocomposites
15:30-15:45	**O-1. Anna Lipovka**. Advanced Nanoscale Surface Analysis of Materials for Flexible Electronics and Sensors
15:45-16:00	**O-2. Aleksandra Paderina**. Pt(II) Complexes with Alkynylphosphine Oxide Ligands: Variety of Luminescent Properties in Polymeric Films
16:00-17:30	**Coffee-break + Poster session 1 (P1 – P 15)**
	Chair: **Maxim Kazantsev**
17:30-17:45	**O-3. Tatiana Moshkina**. D-π-A Structures Based on [1,2,4]triazolo[c]quinazolines: Multifunctional Fluorescent Molecules
17:45-18:00	**O-4. Irina Gudkova.** Synthesis of new comb-shaped polymers containing 2-undecyl-7-octyl-[1]benzothieno[3,2-b]benzothiophene moieties
18:00-18:15	**O-5. Evgeniy Zaborin**. Synthesis and Properties of Novel Promising Semiconducting Polymers for Organic Electronics
18:15-18:30	**O-6. Lev Levkov**. Conjugated Polymers Based on Alkylthiophene-Substituted Derivatives of Benzothieno[3,2-B][1]Benzothiophene
18:30-20:00	**Welcome party**

Tuesday, September 15

	Chair: **Dmitry Paraschuk**
10:00-10:45	**T-3. Pavel Troshin**. Organic Semiconductors for Space Applications: Modelling Intrinsic Photostability and Radiation Resilience Based on Structure Descriptors
10:45-11:15	**I-5. Huiqiong Zhou**. Interface Engineering in Organic and Perovskite Solar Cells
11:15-11:45	**I-6. Mahmoud Zendehdel**. Recent Achievements in The Development and Scaling of Perovskite Modules
11:45-12:15	**Coffee-break**
	Chair: **Pavel Troshin**
12:15-13:00	**T-4. Carlos Cesar Bof Bufon**. Vertical Organic Field-Effect Transistors: Fundamentals and Current Trends
13:00-13:30	**I-7. Elena Poimanova**. Biosensors Based on Organic Field-Effect Transistors
13:30-14:30	**Lunch time**
	Chair: **Carlos Cesar Bof Bufon**
14:30-15:15	**I-8. Olga Fedorova**. Photosensitive Organic-Inorganic Hybrid Materials for Gas Sensor Applications
15:15-15:30	**O-7. Polina Shaposhnik**. Novel polymers with BTBT-Containing Side Chains as Semiconducting Materials for OFETs
15:30-15:45	**O-8. Askold Trul.** Sensory Response Peculiarities of Organic Field-Effect Transistors
15:45-16:00	**O-9. Pralay Chanda**. Modulation of Trap Density for Low Voltage Operation in Solution Processed Organic Field Effect Transistor
16:00-16:15	**O-10. Debajyoti Jana**. CMC Dielectric-Based Organic Field-Effect Transistors for Low operational voltage, Flexible and Mimicking Biological Synapse
16:15-17:45	**Coffee-break + Poster session 2 (P16 – P30)**
	Chair: **Huiqiong Zhou**
17:45-18:00	**O-11. Leonid Kulik**. Direct Optical Generation of Interfacial Charge-Transfer States in Organic Donor/Acceptor Blends: What Is the Difference from Exciton-Mediated Generation?
18:00-18:15	**O-12. Lyubov Frolova**. Suppression of Light- and Radiation-Induced Halide Phase Segregation in CsPbI2Br through Compositional Engineering
18:15-18:30	**O-13. Ekaterina Ilicheva**. Optimization of slot-die printing technology of self-assembling monolayers on NiOx surface for perovskite solar cells
18:30-18:45	**O-14. Polina Sukhorukova**. Development of Materials with an Anchor Group for Defects Passivation as Interfacial Layers in Perovskite Solar Cells
18:45-19:00	**O-15. Nikita Emelianov**. Identifying Stable Perovskite Absorbers and Charge Transport Layers Under Electric Field Stress

Wednesday, September 16

	Chair: **Alexander Romanov**
10:00-10:45	**T-5. Dmitry Paraschuk**. How does OLED work?
10:45-11:15	**I-9. Dmitriy Ionov**. Molecular Singlet and Triplet States: Extracting Maximum Information from Photophysical Experiment
11:15-11:45	**I-10. Dmitry Maslennikov**. Time-Resolved Spectroscopy For New Optoelectronic Materials Discovery
11:45-12:15	**Coffee-break**
	Chair: **Oleg Kharlanov**
12:15-13:00	**T-6. Alexander Romanov**. Advances in metal-containing luminophores: thermally activated delayed fluorescence (TADF)
13:00-13:30	**I-11. Nikita Dubinets**. Design and multiscale modelling of new effective TADF-luminophores
13:30-14:30	**Lunch time**
	Chair: **Dmitriy Ionov**
14:30-15:15	**T-7. Oleg Kharlanov**. Charge transport collapse in organic semiconductors: Competing views and frameworks
15:15-15:30	**O-16. Andrey Sosorev**. Electron-vibrational coupling in boron-free multiple resonance fluorophores
15:30-15:45	**O-17. Vasiliy Trukhanov**. Blue Organic Light-Emitting Diodes Based on Novel Phenoxazine-Substituted Multiple Resonant Luminophore with Thermally Activated Delayed Fluorescence
15:45-16:00	**O-18. Evgeny Mostovich**. Rational Design of Sterically Twisted D–π–A–π–D Emitters for Single-Layer OLEDs
16:00-16:15	**O-19. Darya Tarakanovskaya**. Topological Analysis of Multi-Resonance Thermally Activated Delayed Fluorescence Materials Based on B,N-Heteroarenes for Krisc And Emission Bandwidth Prediction
16:15-16:45	**Coffee-break**
	Chair: **Nikita Dubinets**
16:45-17:00	**O-20. Vladimir Nikitenko**. Universal Analytical Approach for The Transport Energy and Mobility in Disordered Organic Semiconductors
17:00-17:15	**O-21. Anna Saunina**. Analytic Description of Charge Carrier Mobility in Materials with Correlated Disorder Based on Modified Effective Temperature Concept
17:15-17:30	**O-22. Sergey Novikov**. Bimolecular Charge Carrier Recombination in Amorphous Semiconductors Having Spatially Correlated Exponential Density of States
17:30-17:45	**O-23**. **Igor Koskin**. Fine-Tuning Directional Message Passing Neural Networks: Predicting Properties of Conjugated Organic Polymers with High Accuracy
17:45-18:00	**O-24. Daniil Litvinenko**. Monte Carlo Modelling of Geminate Pair Separation Probability in Disordered Organic Semiconductors

Thursday, September 17

	Chair: **Dmitry Paraschuk**
10:00-10:45	**T-8. Georgy Pakhomov**. SIMS analysis of multilayer organic/inorganic structures
10:45-11:15	**I-12. Dmitrii Ivanov**. Modern In Situ Methods for Monitoring Supramolecular Structure Formation in Organic Semiconductors
11:15-12:00	**T-9. Sergey Ponomarenko**. Standards and guidelines for good practice in organic electronics: where do they come from and why do we need them?
12:00-12:30	**School Closing**
12:30-14:00	**Farewell buffet**

Poster session 1

Monday, September 14, 16:00

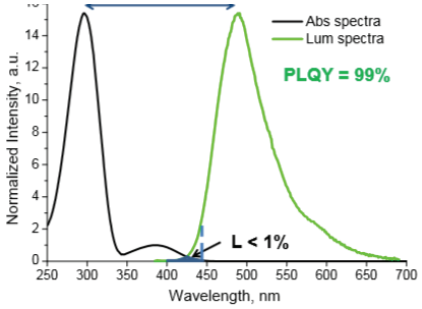
Abramov Pavel	P1	Copper binding, tautomeric equilibrium, and thermal dehydration in eumelanins
Abramova Evgeniya	P2	2,2'-bipyridines functionalized with diphenylphosphoryl groups for emitters based on transition metal complexes
Baranov Denis	P3	Bis(tetracyanoselenophenoanthraquinodimethane) as electron acceptor for organic solar cells and photomultiplication-type organic photodetectors
Demianenko Alena	P4	Tuning of synaptic properties by ionogel composition in biocompatible electrolyte-gated organic transistors for neuromorphic applications
Dorofeev Dmitri	P5	The Role of Ionic Migration and Cluster Formation in the Thermal Stability of CsFAPbI3 Perovskite Solar Cells
Dyadishchev Ivan	P6	Synthesis and properties of functional fluorescent molecular liquids with trihexylsilyl terminal substituents
Elovsky Roman	P7	Design and photophysical investigation of highly efficient pyrene-substituted acridone blue emitters for OLED applications
Fatykhov Ramil	P8	One-Pot Synthesis and Photophysical Properties of 4-Carboranylcoumarin Fluorophores
Filipenkov Dmitrii	P9	Impact of layers thickness proportion on the charge carrier recombination profile in organic light emitting diodes
Gaikov Dmitri	P10	Application of UV curable siloxane materials bearing covalently bonded luminophores as color converting layers for blue diodes
Gaikova Elizaveta	P11	Novel Triazine-Benzothiadiazole Luminophores: Design, Synthesis and Optical Characterization
Gulenkov Danila	P12	Charge Carrier Mobility in Organic Materials with Correlated Disorder A Comparative Analysis of Microscopic Models and Effective Temperature Concept
Kevreva Maria	P13	Conjugated polymer composites as promising hole-transport materials for stable and efficient perovskite solar cells
Kiy Nikita	P14	Study of the influence of deposition parameters on the semiconductor properties of [1]Benzothieno[3,2-b][1]Benzothiophene derivatives
Stakanova Daria	P15	Ortho-substituent effects in 2,1,3-benzothiadiazole–phenylene systems

Fedorenko Roman	P16	Fabrication and characterization of blue OLEDs based on novel multiple resonance diindolophenazine derivatives
Kobeleva Elena	P17	Volatile Additive for Morphology Modification of Acceptors in the Active Layer of Organic Solar Cells
Kuleshov Bogdan	P18	EGOFET multi-sensor device design for metal detection in aqueous solutions
Kuzmin Yury	P19	MR-TADF Emitters Based On Quinolino[3,2,1-de]Acridine-5,9-Dione (QAO)
Lavrinchenko Igor	P20	Cationic Iridium Complexes with Carboranyl-Derived Ligands for OLED Applications
Li Xiaodong	P21	Superior Impact Resistance in Bionic Nanocellulose Composite Supramolecular Elastomers via Multiple Hydrogen Bonding Interactions
Mikhailov Maxim	P22	Synthesis of diindolophenazine derivatives, expansion of the range of fluorophores for the creation of blue OSDs
Molchanov Ivan	P23	Carbon-Based Additives for Modifying the Active Layer and Electrode Interfaces in Organic Solar Cells
Moseev Timofey	P24	Synthesis of Bipyridine Ligand Systems Containing Thiocarborane Species
Polyakov Roman	P25	Copolymer structure determination of carbazole- and triazine-containing styrene monomers through copolymerization kinetic study analysis
Semyonov Svyatoslav	P26	Synthesis and characterization of a series of alkynylphosphine sulfide ligands
Sorokina Ekaterina	P27	Controlled Architecture of BTBT-Grafted Copolymers via Wittig, Hydrosilylation, and Click Chemistry: Towards Functional Receptor Layers
Steparuk Alexander	P28	Organic photosensitizers based on indolo[3,2-b]carbazole with an A-π-D-π-A structure for dye-sensitized solar cells
Titova Yaroslava	P29	Semiconductor properties of novel highly soluble 2,7-diphenyl-[1]benzothieno[3,2-b][1]benzothiophene derivative in organic field effect transistors
Zolotov Mikhail	P30	Donor–Acceptor conjugated polymers absorbing in the second near-infrared transparency window for biomedical applications

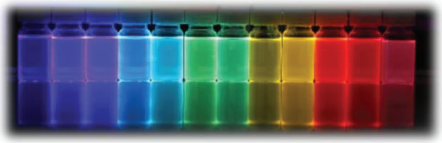
The main goal of LumInnoTech is research, development and commercialization of Nanostructured Organosilicon Luminophores (NOLs) with unique optical properties combining those of organic luminophores and inorganic quantum dots.

Key advantages of NOLs:

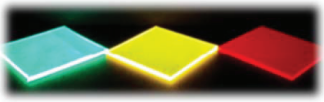
- High luminescence quantum yield: up to 99%
- High molar extinction coefficient: up to 300 000
- Large pseudo Stokes shift: up to 250 – 300 nm
- The possibility of controlling a wavelength of the light emission in a wide range
- Good solution processability
- High stability



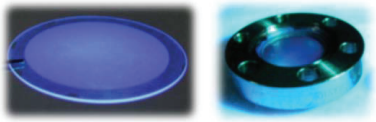
➢ **A library of NOLs, emitting at the desired wavelengths in the range from 390 to 650 nm.**



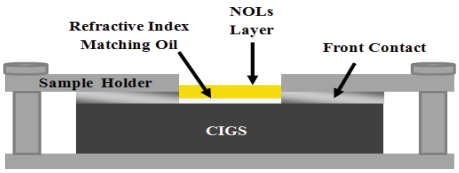
➢ **Wavelength shifting plates for pure CsI crystals**



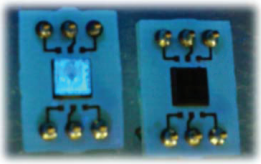
➢ **VUV wavelength shifters for improving photon detection efficiency of noble gas detectors**



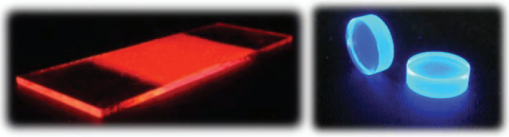
➢ **Luminescent Down Shifting Materials for CIGS Photovoltaics**



➢ **Effective Spectral Shifters for Silicon Photomultipliers**



➢ **New generation of highly efficient and fast plastic and organosilicon scintillators**



➢ **Various NOLs are available from 100 mg to 100 g quantity**

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