



MAPPIC
Moscow Autumn Perovskite Photovoltaics
International Conference



Moscow Autumn Perovskite Photovoltaics International Conference (MAPPIC-2022)

19-е сентября / September, 19th (Moscow time, UTC+3)

9:30-10:00	Регистрация / Registration	
10:00-10:10	Вступительное слово Оргкомитета / Welcome speech of the organizing committee	
10:10-10:20	Онлайн-фотографирование / Taking photos online	
10:20-10:50	Prof. Shengzhong Liu, <i>Shaanxi Normal University, China</i>	Perovskite – a wonder material for solar cells <i>(by video-conference)</i>
10:50-11:10	Prof. Mikhail Avdeev, <i>Joint Institute for Nuclear Research, Dubna, Russia</i>	Structural studies of nanocomposite perovskite materials for photovoltaics at neutron and synchrotron sources
11:10-11:20	Dr. Shuang Xiao, <i>Shenzhen Technology University, China</i>	Chemical Control of Intermediates in Crystallization Reactions of Halide Perovskites for Efficient Light Utilization <i>(by video-conference)</i>
11:20-11:30	Artem Ordinartsev, <i>MSU, Russia</i>	Solubility of hybrid perovskites and their precursors in aprotic solvents
11:30-11:40	Игорь Маргарян, <i>Университет ИТМО, Россия</i>	Morphological and optical properties of MAPbI ₃ perovskite films formed using additives <i>(will be presented in Russian)</i>
11:40-11:50	Dr. Dmitry Muratov, <i>NUST MISIS, Russia</i>	Single-step chemical vapor deposition of methyl ammonium lead halide perovskite for p-i-n solar cells
11:50-12:00	Фотографирование на ступеньках ХФ МГУ / Taking photos on-site	
12:00-13:00	Перерыв / Lunch break	
13:00-13:30	Prof. Chen Qi, <i>Beijing Institute of Technology, China</i>	Heterogeneity in halide perovskite solar cells <i>(by video-conference)</i>
13:30-13:50	Prof. Jixian Xu, <i>University of Science and Technology of China, China</i>	Materials interface engineering in perovskite-silicon tandems <i>(by video-conference)</i>
13:50-14:20	Prof. Zhengguo Xiao, <i>University of Science and Technology of China, China</i>	Large-area perovskite LEDs made by blade coating <i>(by video-conference)</i>
14:20-14:30	Dr. Thai Son Le, <i>NUST MISIS, Russia</i>	Efficiency and stability enhancement of all slot die printed inverted perovskite solar cells with Mxene in electron transporting layer
14:30-14:40	Dr. Pavel Gostishchev, <i>NUST MISIS, Russia</i>	Anion doping of halide perovskites for increased stability of solar modules
14:40-14:50	Anna Obratsova, <i>ITMO University, Russia</i>	Highly efficient light-trapping electrode for the perovskite solar cells
14:50-15:00	Nigina Talbanova, <i>NUST MISIS, Russia</i>	Semi-transparent perovskite solar cells with Ion Beam Sputtering top-contact and anti-reflection coating
15:00-15:10	Dr. Nikolay Belich, <i>MSU, Russia</i>	Vacuum evaporation of inorganic capping layers provides efficient encapsulation of perovskite solar cells

15:10-15:30	Чайная пауза / Tea break	
15:30-16:00	Prof. Sergey A. Ponomarenko, <i>ISPM RAS, Russia</i>	Recent advances in organic semiconductors for perovskite solar cells
16:00-16:20	Dr. Yury Kapitonov, <i>Saint Petersburg State University, Russia</i>	Lasing in halide perovskites
16:20-16:40	Prof. Sergey Makarov, <i>ITMO, Russia</i>	Perovskite microlasers: from material design to on-chip integration
16:40-16:50	Daria Belikova MSU, <i>Russia</i>	Structure, optical and scintillation properties of hybrid bromocuprates (I) based on methylammonium and formamidinium cations
16:50-17:00	Mariia Mamaeva, <i>Saint Petersburg State University, Russia</i>	Random lasing in MAPbI ₃ halide perovskite single crystals
17:00-17:10	Pavel Tonkaev, <i>ITMO University, Russia</i>	Mie-resonant halide perovskite superlattices

20-е сентября / September, 20th (Moscow time, UTC+3)

9:30-10:00	Регистрация / Registration	
10:00-10:10	Вступительное слово Оргкомитета / Opening speech of the organizing committee	
10:10-10:30	Prof. Ivan Scheblykin, <i>Lund University, Sweden</i>	Defect metastability in metal halide perovskites <i>(by video-conference)</i>
10:30-10:50	Dr. Daniil Saranin, <i>MISIS, Russia</i>	Quantification of defect parameters and interface engineering for PCSs
10:50-11:00	Prof. Alexei Emeline, <i>Saint Petersburg State University, Russia</i>	Effect of intrinsic defects on photoluminescence of pristine and doped CsPbBr ₃ perovskite
11:00-11:10	Татьяна Зеленьяк, <i>Объединенный институт ядерных исследований, Россия</i>	Влияние имплантации ионами Cs на атомный состав и структуру функциональных архитектур: стекло/ITO/TiO ₂ /CH ₃ NH ₃ PbI ₃
11:10-11:20	Aleksei Murzin, <i>Saint Petersburg State University, Russia</i>	Diffuse reflectance spectroscopy with dilution: a powerful method for halide perovskites study
11:20-11:30	Anna Samsonova, <i>Saint Petersburg State University, Russia</i>	Refraction Index Near the Excitonic Resonance in MAPbI ₃
11:30-11:40	проф. Сергей Яблонский, <i>Институт кристаллографии РАН, Россия</i>	Features of transient processes in a material with mixed conductivity <i>(will be presented in Russian)</i>
11:40-12:40	Перерыв / Lunch break	
12:40-13:10	Dr. Pavel Troshin, <i>IPCP RAS, Russia</i>	Engineering Stable Interfaces for p-i-n Perovskite Solar Cells <i>(by video-conference)</i>
13:10-13:40	Prof. Shenghao Wang, <i>Shanghai University, China</i>	Opto-electronic properties of all inorganic ABX ₃ perovskites and the solar cells <i>(by video-conference)</i>
13:40-14:10	Prof. Aldo Di Carlo, <i>Tor Vergata University of Rome, Italy</i>	Scaling up perovskite photovoltaic from cell to panels <i>(by video-conference)</i>

14:10-14:20	Dr. Kirill M. Bulanin, <i>Saint Petersburg State University, Russia</i>	FT-IR spectroscopic studies of hybrid perovskites
14:20-14:30	Dr. Azat Akbulatov, <i>IPCP RAS, Russia</i>	Temperature-Dependent Dynamics of the Light-Induced Degradation of MAPbI ₃ and PbI ₂ Thin Films
14:30-14:40	Dr. Subhash Chander, <i>Central Scientific Instrumentation Organisation, India</i>	Unveiling the microstructural and optical properties of graphene-derived metal oxide-based all-inorganic CsSnBr ₃ layer for ecofriendly flexible perovskite solar cell applications <i>(by video-conference)</i>
14:40-14:50	Victoria Ozerova, <i>IPCP RAS, Russia</i>	Using azaadamantane derivatives for improving thermal and photochemical stability of multication lead halide perovskites
14:50-15:00	Dr. Nikita Emelianov, <i>IPCP RAS, Russia</i>	s-SNOM investigation of photodegradation process in MAPI films
15:00-15:10	Dr. Natalia Udalova, <i>MSU, Russia</i>	Compact zwitter-ions as a promising passivators for hybrid halide perovskites with increased stability
15:10-15:30	Чайная пауза / Tea break	
15:30-15:50	Prof. Weidong Xu, <i>Northwestern Polytechnical University, China</i>	High-performance self-healable perovskite light-emitting diodes <i>(by video-conference)</i>
15:50-16:10	Prof. Jianjun Tian, <i>Institute for Advanced Materials Technology Beijing, China</i>	High efficiency and purity perovskite quantum-dot light-emitting diodes <i>(by video-conference)</i>
16:10-16:20	Dr. Dmitry Balakirev, <i>ISPM RAS, Russia</i>	Benzotriindole-based donor-acceptor molecules: synthesis, properties and application in photovoltaic devices
16:20-16:30	Dr. Olga Kraevaya, <i>IPCP RAS, Russia</i>	Oxidative polymerization of triarylamine as an efficient and scalable approach to the synthesis of HTL materials for perovskite solar cells

21-е сентября / September, 21st (Moscow time, UTC+3)

9:30-10:00	Регистрация / Registration	
10:00-10:10	Вступительное слово Оргкомитета / Opening speech of the organizing committee	
10:10-10:30	Dr. Sergey Adonin, <i>NIIC SB RAS, Russia</i>	Supramolecular approaches towards the design of lead-free halometalate light absorbers
10:30-10:50	Prof. Weihua Ning, <i>Soochow University, China</i>	Lead-free Perovskites for Optoelectronic and Spintronic Applications (<i>by video-conference</i>)
10:50-11:00	Dr. Ivan Turkevych, <i>AIST, Japan</i>	Strategies for efficiency improvement of rudorffite solar cells (<i>by video-conference</i>)
11:00-11:10	Dr. Sergei Fateev, <i>MSU, Russia</i>	The comprehensive study of hybrid lead halide materials photostability: the influence of organic cation's nature and dimensionality and general photoelectrochemical mechanism
11:10-11:20	Marina Ustinova, <i>IPCP RAS, Russia</i>	Design of Perovskite Formulations with Improved Photostability by Partial Substitution of Pb ²⁺ in CsPbI ₃
11:20-11:30	Anna Ryabova, <i>MSU, Russia</i>	There's plenty of phases at the bottom: remarkable diversity of formamidinium-based low-dimensional perovskites
11:30-12:30	Перерыв / Lunch break	
12:30-13:00	Dr. Alexey Tarasov, <i>MSU, Russia</i>	Structural disorder and stability issues – two heels of Achilles of layered hybrid halide perovskites
13:00-13:20	Dr. Narges Yaghoobi Nia, <i>Tor Vergata University of Rome, Italy</i>	High performance semitransparent perovskite solar cell and modules on flexible and rigid substrate for tandem application (<i>by video-conference</i>)
13:20-13:40	Dr. Lubov Frolova, <i>IPCP RAS, Russia</i>	Molecular modified all-inorganic perovskites with enhanced stability toward light and gamma rays exposure (<i>by video-conference</i>)
13:40-13:50	Dr. Olga Syzgantseva, <i>MSU, Russia</i>	Modulation of charge carrier lifetimes through the perovskite interfacial engineering (<i>by video-conference</i>)
13:50-14:00	Inga Ermanova, <i>NUST MISIS, Russia</i>	Self-assembled monolayer treatment of charge selective layers and usage as single ETL for p-i-n planar PSSC
14:00-14:10	Dr. Naveen Harindu, <i>BCMaterials, Spain</i>	2D-TMDs: an ideal blockbuster for interfacial layer to promote photo-induced charge transfer dynamics in PSCs (<i>by video-conference</i>)
14:10-14:20	Alexandra Moskalenko, <i>MSU, Russia</i>	Investigation of the rational approach to improve stability of hybrid halide perovskites using 1,4-butanediammonium iodide
14:20-14:40	Чайная пауза / Tea break	
14:40-15:10	Prof. Sai Bai, <i>University of Electronic Science and Technology of China, China</i>	High-performance light-emitting diodes and transistors based on metal halide perovskites (<i>by video-conference</i>)
15:10-15:30	Dr. Yuriy Luponosov, <i>ISPM RAS, Russia</i>	Development of organic charge-transporting materials for perovskite solar cells
15:30-15:40	Полина Сухорукова, <i>ИСПМ РАН, Россия</i>	Hole-transport layers for perovskite solar cells based on organic molecules with "anchor" groups (<i>will be presented in Russian</i>)
15:40-15:50	Elizaveta Papkovskaya, <i>ISPM RAS, Russia</i>	Synthesis and properties of new non-fullerene organic n-type materials as electron transport layers based on A-D-A conjugated oligomers
15:50-16:00	Dr. Daniel Sapori, <i>ITMO, Russia</i>	Challenges for using CuSCN as hole transport material for perovskite solar cells
16:00-16:20	Подведение итогов, торжественное закрытие / Closing of the Conference	