



Moscow Autumn Perovskite Photovoltaics International Conference (MAPPIC-2019)

October 14

Department of Chemistry MSU, room 446

- 09:00** ○ **Registration**
- 09:45** ○ **Welcome speech of the organizing Committee**
- 10:00** ○ Famous Perovskites: Periodic Table elements' chemical puzzle for modern functional materials
Goodilin Eugene, Lomonosov Moscow state University
- 10:40** ○ Band gap engineering of hybrid iodobismuthates towards developing lead-free light-harvesting materials for solar cells
Andrei Shevelkov, Lomonosov Moscow state University
- 11:20** ○ **Coffee-break**
- 11:50** ○ *Room-temperature melts based perovskite processing: polyiodide-based approach as a mirror strategy to amine-based methods*
Tarasov Alexey, Lomonosov Moscow State University
- 12:30** ○ Unravelling Intrinsic Bulk and Interfacial Degradation Mechanisms in Lead Halide Perovskite Solar Cells
Troshin Pavel, Skolkovo Institute of Science and Technology
- 13:10** ○ Speech by a representative of Tescan
- 13:50** ○ **Lunch**



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- 15:00 ○ Photostimulated defect formation in pristine and doped halide perovskites
Emeline Alexei, Saint-Petersburg State University
- 15:15 ○ Исследования Дубненской физико-химической научной школы в области гибридной органо-неорганической перовскитной фотовольтаики
Gladyshev Pavel, Dubna State University
- 15:30 ○ Unraveling the chemical processes driven by the intensive laser irradiation of hybrid perovskites
Udalova Natalia, Lomonosov Moscow State University
- 15:45 ○ P-doped resonant silicon nanoparticles for light management and efficiency improvement of perovskite solar cells
Furasova Aleksandra, ITMO University
- 16:00 ○ Ambipolar perovskite light emitting diodes
Ishteev Arthur, NUST MISIS
- 16:15 ○ Coffee-break**
- 16:45 ○ Free and self-trapped excitons in low-dimensional halide perovskites
Kapitonov Yury, Saint-Petersburg State University
- 17:00 ○ Crystallization of hybrid perovskites from aprotic solvents: new intermediate phases
Petrov Andrey, Lomonosov Moscow State University
- 17:15 ○ Theoretical approaches to the study of ionic mobility in solids
Kabanov Artem, SCTMS, Samara University
- 17:30 ○ Perovskite photovoltaic element with zero built-in voltage
Martynov Yaroslav, State Scientific-Production Enterprise "Istok"



October 15

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- 10:00 ○ Hybrid materials in photovoltaics, photocatalysis and sensing
Turkevich Ivan, National Institute of Advanced Industrial Science and Technology (AIST)
- 10:40 ○ Scaling Dye and Perovskite cells to large area modules
Di Carlo Aldo, NUST MISIS
- 11:20 ○ **Coffee-break**
- 11:50 ○ Разработка солнечных модулей на основе кремния и трансфер технологии в производство
Terukov Evgeny, Research and development center for thin-film technologies
- 12:30 ○ How to measure the solar cell performance
Parashchuk Dmitry, Lomonosov Moscow State University
- 13:10 ○ Development of organic semiconducting materials for organic and hybrid photovoltaic devices
Ponomarenko Sergey, Institute of Synthetic Polymeric Materials (ISPM)
- 13:50 ○ **Lunch**
- 15:00 ○ Дырочно-проводящие материалы на основе оксида меди (I) для перовскитных солнечных ячеек
Zelenyak Tatiana, Dubna State University
- 15:15 ○ Computational and Theoretical Chemistry for Hybrid Perovskite Research
Syzgantseva Olga, École Polytechnique Fédérale de Lausanne (EPFL)
- 15:30 ○ Semi-empirical modeling of disordered mixed-halide hybrid perovskites $\text{CH}_3\text{NH}_3\text{Pb}(\text{I}_{1-x}\text{Br}_x)_3$: prediction of thermodynamic properties, phase stability and deviations from Vegard's law
Marchenko Ekaterina, Lomonosov Moscow State University



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- 15:45 ○ Перовскитные фотоэлектрические преобразователи без дырочного проводящего слоя
Kinev Vladislav, Dubna State University
- 16:00 ○ Toward large scale fabrication of perovskite solar cells by applying slot-die printing technology
Thai Son Le, NUST MISIS
- 16:15 ○ Exceptional Long Electron Lifetime of Methylammonium Lead Iodide Perovskite Solar Cell Made from Aqueous Lead-Nitrate Precursor
Pylnev Mikhail, National Tsing Hua University (NTHU)
- 16:30 ○ Improvement of morphology and crystallinity of hybrid perovskite thin films via novel gas-treatment approach
Grishko Alexey, Lomonosov Moscow State University
- 16:45 ○ **Poster session**
- 17:45 ○ **Closing**

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