



HOPE-PV 2020

International School on Hybrid, Organic and Perovskite Photovoltaics

Additional on-site session at the Institute for Problems of Chemical Physics of RAS

6 November 2020

Prof. Sergey **Aldoshin** (IPCP RAS, Russia)

Current status of the RSF project «Development of a manufacturing technology for highly efficient and stable perovskite solar cells on steel substrates» at IPCP RAS



Dr. Yuri **Luponosov** (ISPM RAS, Russia)

Development of donor-acceptor small molecules for organic solar cells



Dr. Alexander **Akkuratov** (IPCP RAS, Russia)

Organic solar cells based on new conjugated polymers for indoor applications



Prof. Gennady **Novikov** (IPCP RAS, Russia)

Inorganic solar cells based on quaternary copper compounds of $Cu_{2-x}ASnS_{4-y}Se_4$ (A = Zn, Fe, Ni, Mg, Sr, Ba, Mn, Cr, etc.): the achievements and prospects



Dr. Alexandra **Boldyreva** (Skoltech, Russia)

Exploring the radiation stability of perovskite solar cells

Prof. Dmitry **Parashchuk** (MSU, Russia)

Junction-free organic solar cells



Dr. Lyubov **Frolova** (Skoltech and IPCP RAS, Russia)

Design of efficient and stable perovskite solar cells based on all-inorganic complex lead halides



Dr. Danila **Saranin** (MiSIS, Russia)

The use of Mxenes for improved charge collection in perovskite solar cells



Dr. Lavrentiy **Gutsev** (IPCP RAS, Russia)

Theoretical studies of gamma-Induced self-healing of $MAPbI_3$: breaking the records

Prof. Pavel **Troshin** (Skoltech and IPCP RAS, Russia)

Unravelling major degradation pathways in lead halide perovskite solar cells



Dr. Sergey **Luchkin** (Skoltech, Russia)

Nanoscale imaging of functional properties of perovskite solar cell using atomic force microscopy



Dr. Sergey **Tsarev** (Skoltech, Russia)

Stabilization of perovskite solar cells with ZnO electron transport layer



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