

Scientific Programme

International Conference

Recent Advances in Photovoltaics:

Novel materials and device concepts for

flexible and thin-film solar cells

September 28 – October 1, 2016

Bukhara, Uzbekistan

Day 1, September 28

8:45-9:45 *Coffee and Registration*

9:45-10:00 *Opening*

<u>Morning Session</u>	
<u>Chair:</u> Mikhail Kiselev	
10:00-10:45	Carsten Deibel. <i>Charge carrier photogeneration and recombination in organic solar cells</i>
10:45-11:30	Yongfang Li. <i>Two-Dimension-Conjugated Polymer Donor Materials For High Efficiency Non-Fullerene Polymer Solar Cells</i>
11:30-12:15	Asghar Asgari. <i>Graphene based solar cells</i>
12:15-13:00	Yaser Abdi. <i>Electron transport in nano-structured solar cells</i>
Lunch break (13:00-15:00)	
<u>Afternoon Session</u>	
<u>Chair:</u> Carsten Deibel	
15:00-15:45	Dmitry A. Afanasyev. <i>Using of Ag-TiO₂ nanoparticles in dye-sensitized solar cell</i>
15:45-16:30	Ramzan Ullah. <i>Density Functional Theory and Its Role in Multiscale Computational Modeling of Photovoltaic Materials</i>

Day 2, September 29

<u>Morning Session</u> Chair: Yongfang Li.	
9:30-10:15	Setsuhisa Tanabe. <i>Crystal chemistry of perovskites; Amazing material of electronic functions</i>
10:15-11:00	Sang Il Seok. <i>Perovskite solar cells: world-record power conversion efficiency through solution chemistry</i>
Coffee Break (11:00-11:30)	
11:30-12:15	Gary Hodes. <i>Inorganic halide perovskite photovoltaics</i>
12:15-13:00	Yasuhiko Hayashi. <i>Recent progress and stability of perovskite solar cells</i>
Lunch break (13:00-14:30)	
<u>Afternoon Session</u> Chair: Sang Il Seok	
14:30-15:15	Artem Bakulin. <i>Structural and electronic dynamics in hybrid perovskite materials for photovoltaic and light-emitting devices</i>
15:15-16:00	Sohrab Ahmadi. <i>Perovskite based photovoltaics</i>
16:00-16:45	Kazuhiro Marumoto. <i>Light-induced ESR spectroscopy of charge states in polymer solar cells during device operation</i>
19:00 -21:30	Conference Dinner

Day 3, September 30

<u>Morning Session</u>	
Chair: Yasuhiko Hayashi	
9:30-10:15	Davron Matrasulov. <i>Solitons as charge carriers in conducting polymers and organic solar cells</i>
10:15-11:00	Boris Oksengendler. <i>Features of radiation degradation of solar cells on the base of organic-inorganic perovskites</i>
Coffee Break (11:00-11:30)	
11:30-12:15	Nigmat Ashurov. <i>Problem of optimization and solution ways of perovskite based solar cells</i>
12:15-13:00	Nurlan Bakranov. <i>Solar driven hydrogen production by ZnO photoanode</i>
Lunch break (13:00-14:30)	
<u>Afternoon Session</u>	
Chair: Gary Hodes	
14:30-15:15	Mikhail Kiselev. <i>Electronic spin working mechanically</i>
15.15-16.00	Bakhodir Abdullaev. <i>Metal-insulator (fermion-boson) - crossover origin of pseudogap phase of cuprates</i>
16.00-16.45	Doniyor Babajanov. <i>Charge transport in periodically driven graphene</i>

Day 4, October 1

10.00-13.00 - Poster Session
Lunch break (13.00-14.30)
14.30-17.00 - Discussions