



13:10 - 13:20

Petrova V.I., Kozlov S.S., Alexeeva O.V., Nikolskaia A.B.,
Shevaleevskiy O.I.

**OPTIMIZATION OF DYE SENSITIZED SOLAR CELLS FOR
EFFICIENT OPERATION UNDER LOW-LIGHT CONDITIONS
AND ARTIFICIAL INDOOR ILLUMINATION**

WEDNESDAY, 04.09, Room 1221

9:50 - 10:00

Agapitova M.M., Tepliakova M.M.

**DESIGN OF ELECTRONE-TRANSPORT MATERIALS FOR
WIDE-BANDGAP PEROVSKITE SOLAR CELLS**

10:00 - 10:10

Beklemyshev V.E., Zvereva I.A., Magomedova A.G.,
Orudzhev F.F.

**SYNTHESIS AND STUDY OF PHOTOCATALYTIC AND
PIEZOPHOTOCATALYTIC PROPERTIES OF PEROVSKITE-
TYPE LAYERED OXIDE $\text{Bi}_3\text{NbTiO}_9$**

10:10 - 10:20

Boldyreva A.G., Tepliakova M.M., Novikov A.V., Petrov V.G.,
Parfenova O., Vasilev A., Saranin D., Stevenson J.K

**EFFECT OF GAMMA-RAYS ON RECOMBINATION
DYNAMICS AND DEFECT CONCENTRATION IN A WIDE
BANDGAP PEROVSKITE**

10:20 - 10:30

Dzhouse-Ivanina S.A., Parfenova O.R.

**BI-SOLVENT ENGINEERING METHOD FOR IMPROVING
THE EFFICIENCY AND STABILITY OF A WIDE-BANDGAP
PEROVSKITE**

10:30 - 10:40

Sideltsev M.E., Zhivchikova A.N., Kuznetsov I. E., Piryazev A.A.,
Nikitenko N.G., Akkuratov A.V.

**THE DESIGN OF ALKYLSTYLIL-SUBSTITUTED HOLE
TRANSPORT MATERIALS FOR PEROVSKITE SOLAR CELLS**

10:40 - 10:50

Rashitova K.I., Gerasimov S.A., Bobrysheva N.P.,
Osmolowsky M.G., Osmolovskaya O.M.

**MULTIFUNCTIONAL SORBENT/PHOTOCATALYST
MATERIALS BASED ON Mg-Al LAYERED DOUBLE
HYDROXIDES**

10:50 - 11:00

Novikov S.S., Silyukov O.I.

**STUDY OF THE EXFOLIATION OF LAYERED DOUBLE
HYDROXIDES IN AQUEOUS MEDIA AND THEIR
PHOTOCATALYTIC ACTIVITY**



11:50 - 12:00	<u>Prytkov V.A., Osipova A.M., Hannanov A.A., Kuznetsov I.V., Kutyreva M.P.</u> ONE-STEP SYNTHESIS OF SILVER-CONTAINING NANOCOMPOSITES BASED ON FUNCTIONALIZED HYPERBRANCHED POLYESTERS USING SYNTHETIC GREEN CHEMISTRY APPROACHES
12:00 - 12:10	<u>Ananina A.A., Nartova A.V., Semikolenov S.V., Kovtunova L.M., Dmitrachkov A.M., Kvon R.I., Sobolev V.I., Bukhtiyarov V.I.</u> THE EFFECT OF SIBUNITE TREATMENT IN NO ON THE CATALYTIC PROPERTIES OF Pd/C CATALYSTS IN THE FORMIC ACID DECOMPOSITION
12:10 - 12:20	<u>Dobrovolskii A.A., Mikhaylov A.A., Platonov V.B., Rumyantseva M.N., Prikhodchenko P.V.</u> GENERATION OF A SENSOR SIGNAL TO REDUCING GASES IN NANOCRYSTALLINE SnO₂, SYNTHESIZED BY PEROXIDE ASSISTED SOL GEL METHOD
12:20 - 12:30	<u>Kuchkaev Aidar M., Kuchkaev Airat M., Yakhvarov D.G.</u> NEW APPROACHES FOR THE FUNCTIONALIZATION OF FEW-LAYER BLACK PHOSPHORUS WITH THE FORMATION OF COVALENT P-C BONDS
12:30 - 12:40	<u>Kuznetsov I.E., Piryazev A.A., Sagdullina D.K., Anokhin D.V., Zhivchikova A.N., Sideltsev M.E., Tepliakova M.M., Ivanov D.A., Akkuratov A.V.</u> EFFECT OF PROCESSING SOLVENT ON THE HOLE TRANSPORT IN ORGANIC SEMICONDUCTOR SMALL MOLECULES
12:40 - 12:50	<u>Asharchuk A.A., Kubarkov A.V., Sergeyev V.G.</u> POLYMER / CARBON NANOTUBES COMPOSITES AS WATER-PROCESSABLE BINDERS FOR Li ION BATTERY ELECTRODES
12:50 - 13:00	<u>Kyzlasova D.A., Ulihin A.S., Uvarov N.F.</u> N-METHYL-N-PROPYLPIPERIDINIUM PERCHLORATE DOPING BY LITHIUM PERCHLORATE AS ELECTROLYTE FOR LITHIUM-ION BATTERIES
13:00 - 13:10	<u>Veselova V.O., Gajtko O.M.</u> EFFECT OF SOLVENT AND CATALYST ON THE HYDROLYSIS RATE OF GERMANIUM ALKOXIDES – KEY STEP IN THE PRODUCTION OF GeO₂ AEROGELS
13:10 - 13:20	<u>Skrypnik M.U., Platonov V.B., Vasiliev R.B.</u> NANOCOMPOSITES WITH CHARGE TRANSFER FOR RECOGNITION ORGANIC MOLECULES IN GAS PHASE BASED ON PHOTOCATALYSIS