

Hall A

Section 1.



Fundamental processes in low-temperature plasma: low and high pressure discharges, near-electrode phenomena, radiation, ultrafast processes, diagnostics.

9.00-10.25	Oral Session (OS-1-4).	Chairman: <i>Vasily V.Lisenkov</i>
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1	Invited report Online 9.00-9.30	<p>On the scaling laws for low-temperature plasmas at macro and micro scales <i>Yangyang Fu, X. Wang, B. Zheng, P. Zhang, Q. Fan, J. Verboncoeur</i> Tsinghua University, Beijing, China</p>
2	Oral 9.25-9.50	<p>Influence of molecular oxygen on energy characteristics of a gas discharge of atmospheric pressure in air with addition of carbon oxide <i>Albert N. Orlov, V.V. Osipov, V.V. Lisenkov, S.M. Armyninov</i> Institute of Electrophysics UB RAS, Ekaterinburg, Russia</p>
3	Invited report 9.50-10.20	<p>Operating parameters of high pulse repetition frequency capillary gas discharge switch and its application for ion self-terminating lasers pumping <i>P.A. Bokhan, P.P. Gugin, M.A. Lavrukhin, D.E. Zakrevsky</i> A. V. Rzhhanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia</p>



Hall A

Section 4.

Sources of low-temperature plasma: generators of continuous, pulse-periodic and pulsed action, gas switches, power supply.

10.40-12.00	Oral Session (OS-4-4).	Chairman: <i>Anton I. Gusev</i>
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1	Oral 10.40- 11.00	The measurements of plasma expansion processes of high current vacuum arc <i>Ilya L. Muzyukin, P.S. Mikhailov, S.A. Chaikovsky, I.V. Uimanov, D.L. Shmelev, Yu.A. Zemskov</i> Institute of Electrophysics UB RAS, Ekaterinburg, Russia
2	Oral 11.00- 11.20	Experimental study of micro pulsed plasma thruster <i>I.L. Muzyukin, Pavel S. Mikhailov</i> Institute of Electrophysics UB RAS, Ekaterinburg, Russia
3	Oral 11.20- 11.40	Thrust characteristics of compact high-voltage pulsed plasma thruster utilizing liquid propellant <i>S.A. Buldashev, R.V. Emlin, P.A. Morozov, Ivan F. Punanov, Y.N. Shcherbakov, L.Y. Yashnov</i> Institute of Electrophysics, Ekaterinburg, Russia
4	Oral 11.40- 12.00	Properties of pulsed magnetron discharge plasma in helium <i>Andrey V. Kaziev, D.V. Kolodko, G.I. Rykunov, N.S. Sergeev</i> National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Moscow, Russia



Hall B

Section 2.

Gas-discharge methods for surface modification and coating deposition: surface modification, ion implantation, combined methods of surface treatment.

09.00-10.25

Oral Session (OS-2-4).

Chairman: *Maxim Vorobyov*

1	Invited report 9.00-9.25	PVD gradient and multilayer coatings deposited by vacuum-arc plasma-assisted method <i>Olga V. Krysina, N.N. Koval, Yu.F. Ivanov, N.A. Prokopenko, V.V. Shugurov</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
2	Oral 9.25-9.45	Nb/NbN multilayer coatings deposited by the vacuum-arc plasma-assisted method: synthesis, properties, structure <i>O.V. Krysina, Nikita A. Prokopenko, Yu.F. Ivanov, V.V. Shugurov, E.A. Petrikova, O.S. Tolkachev, M.E. Rygina</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
3	Oral 9.45-10.05	Influence of pulse-periodic low-pressure arc discharge mode on coating properties <i>Michail V. Savchuk, V.V. Yakovlev, V.V. Denisov, A.A. Leonov, A.O. Egorov</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
4	Oral 10.05-10.25	Ti₂AlC MAX phase coatings made by reactive cathodic arc deposition (arc-PVD) <i>Alexey A. Maslov, A. Yu. Nazarov, E.L. Vardanyan</i> Ufa State Aviation Technical University, Ufa, Russia

10.40-12.00		Oral Session (OS-2-5).	Chairman:
1	Oral 10.40-11.00	<p>Effect of bias voltage on the performance of magnetron deposited MoS₂ coatings <u>Maksim M. Kharkov</u>, G.I. Rykunov, A.V. Kaziev, M.S. Kukushkina, D.V. Kolodko, M.V. Prozhega, E.O. Reschikov, I.S. Babinets, P.P. Beschapov, A.M. Stasenko, S.V. Chernyshov National Research Nuclear University MEPhI, Moscow, Russia</p>	
2	Oral 11.00-11.20	<p>TiCrN vacuum arc coating to increase wear resistance of die steels <u>Andrey A. Leonov</u>, Yu.A. Denisova, V.V. Denisov, M.V. Savchuk, V.N. Tishchenko Institute of High Current Electronics SB RAS, Tomsk, Russia</p>	
3	Oral 11.20-11.40	<p>Effect of ultraviolet irradiation or plasma of diffuse discharge on the surface properties of MAO calcium phosphate coatings <u>Ekaterina G. Komarova</u>, E.A. Kazantseva, V.S. Ripenko, A. Zharin, Y.P. Sharkeev Institute of Strength Physics and Materials Science SB RAS, Tomsk, Russia</p>	
4	Oral 11.40-12.00	<p>Effect of power of ultrasound during micro-arc oxidation on phase composition and morphology of calcium phosphate coatings <u>Ekaterina A. Kazantseva</u>, E.G. Komarova, Y.p. Sharkeev Institute of Strength Physics and Materials Science SB RAS, Tomsk, Russia</p>	