

**Poster Session 1: 08.10.18, 11:00 — 17:00  
09.10.18, 11:00 – 16:00**

**Thermoelectric Energy Converters**

A1	<b>M.P. Volkov, I.A. Drabkin, L.B. Ershova, A.A. Nazarenko:</b> RMT cycling thermoelectric modules
A2	<b>Yury V. Ivanov, Yuki Shii, Hirofumi Watanabe, Noriko Chikumoto, Hirohisa Takano, Noriyuki Inoue, Masaе Kanda, Satarou Yamaguchi:</b> Dependence of the heat leak of the Peltier current lead on design of its copper part
A3	<b>I.A. Drabkin:</b> COP of Segmented Cooling Leg
A4	<b>I.V. Korobeinikov, N.V. Morozova, L.N. Lukyanova, O.A. Usov, S.V. Ovsyannikov:</b> Stress-controlled thermoelectric module and its application for the significant enhancement of the power factor of Bi <sub>2</sub> Te <sub>3</sub> -based thermoelectrics
A5	<b>A.Yu. Malinov, M.M. Krivoruchko:</b> Thin-film thermoelectric microtransformer
A6	<b>Sattar.S.:</b> A review on Reliability of TEGs
A7	<b>K. A. Shishov, P.P. Shiryaev, A.S. Osipkov, R.A. Poshekhanov, L.A. Tischenko:</b> Analysis of automobile thermoelectric generator hot heat exchanger design and influence on overall vehicle fuel efficiency for urban driving cycles
A8	<b>V.E. Fomin, A. Masalimov, A.V. Asach:</b> The study of an influence of sample shape and size on the measurements error using laser flash method
A9	<b>Nazarenko A.A., Volodin V.V.:</b> New Miniature Thermoelectric Coolers of the Company RMT
A10	<b>M.A. Kovaleva, Panfilov Yu.V., Osipkov A.S., Veselkova M.A.:</b> Current state and development trends of thin-film thermoelectrics technologies

**Nanostructured and nanocomposite thermoelectrics**

A11	<b>Mi-Kyung Han, Sung-Jin Kim*:</b> Nanoprecipitates formation in Bi <sub>2</sub> Te <sub>3</sub> matrix and its effect on thermoelectric transport properties
A12	<b>V. A. Kulbachinskii, V.G. Kytin, N.V. Maslov, P. Singha, S. Das, A. Banerjee:</b> Thermoelectric properties of Sb <sub>2</sub> Te <sub>3</sub> nanocomposites
A13	<b>A.A. Shabaldin, P.P. Konstantinov, A.Yu. Samunin, L.N. Lukyanova, A.T. Burkov:</b> Thermoelectric properties of nanocomposite Bi <sub>0.45</sub> Sb <sub>1.55</sub> Te <sub>3</sub> with SiO <sub>2</sub> microparticles
A14	<b>L. N. Lukyanova, I. V. Makarenko, O. A. Usov, P. A. Dementev:</b> Topological surface states of Dirac fermions in n-Bi <sub>2</sub> Te <sub>3-y</sub> Se <sub>y</sub> thermoelectrics
A15	<b>N.P. Stepanov, A.K. Gilfanov, E.N. Trubitsina:</b> Correlation of the optical and magnetic properties of crystals Bi <sub>2</sub> Te <sub>3</sub> -Sb <sub>2</sub> Te <sub>3</sub>
A16	<b>D.A. Korostelev, V.O. Sergeev, A.A. Sokolov, V.F. Kharlamov:</b> Semiconductors with negative inductivity
A17	<b>Yu.V. Panin, V.V. Bavikin, A.A. Kamynin:</b> Thermoelectric material Bi <sub>2</sub> Te <sub>2.4</sub> Se <sub>0.6</sub> with nanoscale oxide phase
A18	<b>V.S. Kuznetsova, S.V. Novikov, A.T. Burkov, B.K. Zaitsev, K.K. Nichenametla:</b> Structure and thermoelectric properties of the Co silicides-based film compounds

**Thin films**

A19	<b>L.N. Lukyanova, O.A. Usov, M.P. Volkov:</b> Thermoelectric and galvanomagnetic properties of Bi <sub>2-x</sub> Sb <sub>x</sub> Te <sub>3-y</sub> Se <sub>y</sub> layered films
A20	<b>S.V. Novikov, A.T. Burkov, V.S. Kuznetsova, I. Shuman:</b> Influence of the thickness of Cr <sub>0.24</sub> Si <sub>0.76</sub> nanocrystalline film on the thermoelectric properties
A21	<b>T.S. Kamilov, A.S. Rysbaev, V.V. Klechkovskaya, A.S. Orekhov, B.D. Igamov:</b> Method for obtaining thin films of HMS by magnetron sputtering
A22	<b>T.S. Kamilov, A.S. Rysbaev:</b> Obtaining thin films of CMM by magnetron sputtering
A23	<b>V.M. Grabov, E.V. Demidov, V.A. Komarov, S.V. Senkevich, A.V. Suslov, M.V. Suslov:</b> Galvanomagnetic properties of thin block films on substrates in the bismuth-antimony system with the different coefficient of thermal expansion
A24	<b>N.S. Kablukova, E.S. Makarova, V.A. Komarov:</b> Influence of the antimony sublayer on the formation of a thin bismuth film and its galvanomagnetic properties
A25	<b>K.L. Samusevich, A.S. Tukmakova, A.V. Novotelnova:</b> The simulation of deformation, densification and grain growth during the spark plasma sintering of nanothermoelectrics within the finite elements method
A26	<b>Albina Nikolaeva:</b> Thermoelectric properties semimetal and semiconductor Bi <sub>1-x</sub> Sb <sub>x</sub> foils
A27	<b>Albina Nikolaeva:</b> Miniaturized heat flux sensor based on glass-insulated Bi-Sn wires
A28	<b>V.V. Klechkovskaya, A.S. Orekhov, T.S. Kamilov:</b> Orientation analysis of higher manganese silicide films on (111) single-crystal silicon substrate