

Poster session B: 14.09.21, 14:00 — 18:00

Physical properties and thermoelectric materials science

B1	A.A. Povzner , A. G. Volkov, S. A. Bessonov, T. A. Nogovitsyna: Features of the electronic structure and thermo-emf with Fe _{1-x} Cox
B2	Abilov Ch.I., Hasanova M.Sh. , Guseynova N.T., Kasumova E.K.: Thermoelectrical properties of solid solutions (CuInSe ₂) _{1-x} (In ₂ Te ₃) _x
B3	Ivanova L.D., Granatkina Yu.V. , Mal'chev A.G., Nikhezina I.Yu., Krivoruchko S.P., Vekua T.S., Zaldastanishvili M.I.: Thermoelectric properties of germanium telluride obtained by various methods
B4	L.D.Ivanova, Yu.V.Granatkina, A.G.Malchev, I.Yu.Nikhezina , S.P.Krivoruchko, M.I.Zaldastanishvili, T.S.Vekua, N.M.Soudak: Thermoelectric properties of lead telluride with a fine-grained structure
B5	Shreder E.I. , Makhnev A.A., Lukoyanov A.V., Dash Sh, Vasundhara M., Patra A.K.: Evolution of the structure and optical properties of Mn _{2-x} Fe _{1+x} Al Heusler alloys
B6	Sitnikov M.V. , Dudnikov V.A., Orlov Yu.S., Novikov S.V., Burkov A.T., Zharkov S.M., Borus A.A., Ovchinnikov S.G.:Effect of Mechanochemical Activation on Thermoelectric Properties of LnCoO ₃ Compounds
B7	Ivanov A.A. , Akchurin R.Kh., Bublik V.T., Voronov M.V., Lavrentev M.G., Panchenko V.P., Parkhomenko Y.N., Tabachkova N.Y.: Investigation of the structure and thermoelectric properties of Cu ₂ – xSe (0.03 ≤ x ≤ 0.23) solid solution
B8	Dorokhin M.V. , Kuznetsov Yu.M., Demina P.B., Erofeeva I.V., Zdoroveyshchev A.V., Boldin M.S., Lantsev E.A., Popov A.A.: Spark plasma sintering method application for the fabrication of thermoelectric energy converters based on Mn-Si compounds
B9	V.G. Kytin , A.V. Duvakina, E.E. Kupriyanov, I.E. Korsakov, I.O. Angelovsky, V.A. Kulbachinskii, E.A. Konstantinova: Thermoelectric properties of polycrystalline CuCr _{1-x} MgxO ₂ samples synthesized using chemical homogenization
B10	Veis A.N. , Lukyanova L.N., Usov O.A.: Optical absorption connected with interband and intersubband transitions of electrons in bismuth telluride
B11	Pospeev A.A. , Burkov A.T., Novikov S.V.: Thermoelectric properties of intermetallic compounds based on Y(Ni _x Co _{1-x}) ₂
B12	Serikov D.V. , Kushchev S.B., Dybov V.A.: Effect of photonic treatment of semiconductor legs of the Bi ₂ Te ₃ – Bi ₂ Se ₃ solid solution; nanostructure, hardening, adhesion and increase in figure of merit
B13	Bavykin V.V. , Kalinin Yu. E., Mikhailov A.V.: Influence of conditions of lead telluride synthesis on its thermoelectric parameters
B14	Garkavyi S., Matukhin V., Gavrilenko A., Schmidt E., Sevastianov I. , Orlinskii S., Navratil J., Novak P.: ^{63,65} Cu NMR and EPR Study of Doped Chalcopyrite Cu _{1-x} Pd _x FeS ₂ Compounds
B15	Chernyshova E. , Serhiienko I., Novitskii A., Kolesnikov E., Khovaylo V.: Preparation, structure and thermoelectric properties of Al-doped ZnO ceramics
B16	Orlov Yu.S. , Dudnikov V.A., Vereshchagin S.N., Novikov S.V., Borus A.A., Volochaev M.N., Sitnikov M.V., Burkov A.T.: Thermoelectric properties of Ln _{1-x} Sr _x TiO _{3-δ} (Ln = Nd, Gd, Dy)
B17	Lyubushkin R.A. , Shcherbakov A.S., Matveenkov D.S.: Solution assisted synthetic routes to prepare of quaternary material Pb _{1-x} Sn _x SeyTe _{1-y} .
B18	A.V. Sotnikov , V.V. Bakovets, P.E. Plyusnin, M.M. Syrovkashin: Investigation of thermal decomposition of Y and Sm hydroxides and Sm(OH) ₃ @Y(OH) ₃ compound with a core-shell nanostructure as precursors for the production of thermoelectric materials
B19	Lukyanova L.N. , Makarenko I.V., Usov O.A.: Differential tunneling conductivity in multicomponent solid solutions Bi _{2-x} Sb _x Te _{3-y-z} SeySz
B20	Voronov M.V. , Bogomolov D.I., Bublik V.T., Ivanov A.A., Lavrent'ev M.G., Panchenko V.P., Parkhomenko Yu.N., Tabachkova N.Yu.: Features of obtaining thermoelectric material Zn ₄ Sb ₃ by spark plasma sintering method
B21	Tukmakova A.S., Khakhilev N.I., Shcheglova D.B., Nasonov V.D. , Novotelnikova A.V.: Finite elements modeling of thermoelectric powders compaction in the process of field activated sintering
B22	Shcheglova D.B. , Khakhilev N.I., Nasonov V.D., Novotelnikova A.V., Tukmakova A.S.: Analysis of densification mechanisms of thermoelectric powders within field-activated sintering
B23	Yapryntsev M. , Ivanov O., Vasil'ev A., Yapryntseva E.: Structure and thermoelectric properties of Bi ₂ Te _{2.7} Se _{0.3} doped with Sm
B24	Popkov D.A. , Yapryntsev M.N., Ivanov O.N., Vasilev A.E.: Solvothermal synthesis of submicron Bi ₂ Te _{2.7} Se _{0.3} particles with different controlled morphology
B25	Solomkin F.Yu. , Suvorova E.I., Arkharova N., Sharenkova N.V., Isachenko G.N. : Microstructure and phase composition an alloy of iron and chromium disilicides
B26	Knyazev Yu.V., Lukoyanov A.V. , Kuzmin Yu.I., Dash S., Patra A.K., Vasundkhara M. : Electronic and optical properties of the semimetallic ferromagnet Mn ₃ Al
B27	Solomkin F.Yu., Samunin A.Yu. , Zaitseva N.V., Sharenkova N.V., Novikov S.V., Isachenko G.N. : Research phase composition of the interface layer obtained by hot pressing of Si and Cr
B28	Lukyanova L.N. , Makarenko I.V., Usov O.A. : Scanning tunneling microscopy in chalcogenide thermoelectrics (Bi, Sb) _2 (Te, Se) _3