# ПУБЛИКАЦИИ ОСНОВНЫХ РЕЗУЛЬТАТОВ НАУЧНОЙ ДЕЯТЕЛЬНОСТИ СОТРУДНИКОВ ИНЖЕНЕРНО-ТЕХНИЧЕСКОГО ИНСТИТУТА В РЕЙТИНГОВЫХ ЖУРНАЛАХ, ИНДЕКСИРУЕМЫХ В БАЗАХ ДАННЫХ WEB OF SCIENCE / SCOPUS ЗА ПЕРИОД С 2017 ПО 2020 гг.

1. Safonova M.N., Syromyatnikova A.S., Petasyuk G.A., Fedotov A.A., Tarasov P.P., Kim V.A. A Study of the Influence of Natural Diamond Ultrafine Powders on the Properties of Metal Matrix Composites // Journal of Superhard Materials. – 2018. – Vol. 40. – Iss. 1. P. 65-72. DOI: 10.3103/S1063457618010100. База данных: WoS/Scopus. Квартиль: Q2.

Аннотация:

The influence of the percentage content and dispersion of natural diamond powders used as fillers on the properties of a tin- and copper-based composite material for abrasive applications has been studied. It has been experimentally found out that adding these fillers in certain amounts to the composite has a beneficial effect on the physical-mechanical properties and performance of the resulting material.

2. Ivanov V.N., Ivanova A.V., Tyurin A.P., Zamotin K.Y. Simulation of heat-exchange processes in coaxial flues at abnormally low temperatures // Journal of Cold Regions Engineering. – 2017. – Vol. 31. – Iss. 3. DOI: 10.1061/(ASCE)CR.1943-5495.0000131 База данных: WoS/Scopus. Квартиль: Q2.

Аннотация:

Mathematical modeling (simulation) of the movement of the air mixture in the combustion of natural gas was performed for coaxial flue tubes with countercurrent flow for conditions of extremely low ambient temperatures. Also investigated was a configuration of the flue tube in which the chimney was modified with a 45° corner cut, characterized by less icing. The calculation and analysis of 24 cases were carried out.

3. Gavrilyeva T.N., Boyakova S.I., Yakovleva N.P., Bochoeva R.I. Compensation of Damage to Indigenous Small-Numbered Peoples of Yakutia from Industrial Development of the Territory // Regional Research of Russia. – 2019. – Vol. 9. – P. 288-294. DOI: 10.1134/S2079970519030043 База данных: Scopus. Квартиль: Q3.

Аннотация:

The article examines the experience in conducting expert ethnological evaluations in the Sakha Republic (Yakutia) and assesses the effectiveness of this institution for protecting the rights of indigenous small-numbered peoples of the North (ISPN) during the implementation of large investment projects. For the first time, per capita estimates of compensation for damage to the ISPN community per 1 km of territory and water area withdrawn out of traditional economic activity have been determined. The authors compare the size of compensation with the annual income of community members, as well as the size of payments practiced in other regions. The shortcomings of expert ethnological evaluations are shown, and directions for their improvement are proposed. The necessity of expanding the list of ecosystem services is substantiated. It is concluded that, when assessing damage in the case of deteriorated conditions for traditional economic activity, a different approach is required: assessment of impact on community resilience.