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**Development Prospects of SHS Technologies
in Altai State Technical University**

V.V. Evstigneev, P.J. Guljaev, I.V. Miljukova, V. D. Goncharov, V.A. Vagner, and A.A. Gladkih

Polzunov Altai State Technical University

ABSTRACT

The discovery of self-propagating high-temperature synthesis (SHS) gives a new impulse to searching and conception forming of physical and chemical combustion mechanisms in various substance aggregate states. First, it concerns combustion in a firm phase. The method of SHS provides the possibility of getting the materials with peculiar properties owing to specific synthesis conditions: considerable thermodynamic nonequilibrium and high-temperature gradients.