Ignition of forest fuel by the carbonaceous particle heated up to high temperatures

© Arkadiy V. Zakharevich, Nikolay V. Baranovskiy,* and Vyacheslav I. Maksimov
Theoretical and Industrial Heat Systems Engineering Department. Tomsk Pedagogical University. Lenin St., 30. Tomsk, 634050. Russia. Phone: +7 (3822) 56-36-13. E-mail: firedanger@narod.ru

*Supervising author; †Corresponding author

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Abstract
Experimental research of ignition process of forest fuel layer by the carbonaceous single particle heated up to high temperatures is carried out. Dependences of ignition delay time of forest fuel on initial temperature of ignition source which has been modeled by graphite samples in the form of a parallelepiped are obtained. Limiting conditions of pine needles ignition by carbonaceous particles are established.