

Special Issue

Dust Explosion Prevention

Message from the Guest Editors

For all kinds of industries, their safe operation is very important. However, in many areas of industry there are flammable industrial dusts that, due to their physical and chemical properties and fire and explosion parameters, can, under certain precisely defined conditions, disrupt the safety of the given technology and cause an explosion. Dust explosions can happen not only in factories but also in grain silos and even homes. Any place where fine particles of flammable dust are present and can become airborne is at risk of explosion. The resulting explosion can cause extensive damage due to the rapid expansion of gases and the subsequent pressure wave. The scientific principles essential for combustible dust explosions include the detailed breakdown of the combustion process and the factors that influence dust explosions. For this reason, it is very important for every industrial operation to know the explosion parameters of the dust that occurs during the production or processing of the material in the given technology and to ensure its protection against the explosion of combustible dust in advance.

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About the Journal

Message from the Editor-in-Chief

Fire is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire's* Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

Editor-in-Chief

Dr. Grant Williamson

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