DESCRIPTION

Journal of Sustainable Mining is dedicated to the key problems of contemporary mining, for which activities related to sustainable development are a great and important challenge. The mission of this journal is to promote and spread knowledge not only concerning the idea of sustainable development in mining, but most of all, specialist knowledge derived from national and international research as well as technological solutions and methods, in which this vital idea is implemented.

Journal of Sustainable Mining covers topics related to mining sciences. The journal’s subject matter includes: Mining Technology and Technique; Mining Geophysics; Geoengineering; Geology of Mineral Deposits; Natural and Technological Hazards in Mines; Occupational Safety and Health; Rock Mechanics; Mining Surveying; Management of Mineral Resources; Material Engineering; Clean Coal Technologies; Economics and Industry Organization; and Social Aspects of Mining Activities.

Today's mining of mineral resources faces the challenges related to the more complex extraction conditions, e.g. great depths, natural hazards, environmental restrictions, which all increase the production costs. This is the reason why a novel approach towards the mining sector focuses on the development of environment friendly, clean technologies of minerals extraction and processing. In this respect much attention is given to the development of Clean Coal Technologies addressing also the increasing demand for energy carriers and the challenges concerning the emission limits in mining and energy sector. Therefore, the papers related to the application of the innovative Clean Coal Technologies, like coal gasification in surface and underground reactors, co-gasification of coal with biomass and waste materials, highly efficient combustion, hydrogenation, polygeneration as well as novel catalysts and thermodynamic aspects of thermochemical conversion of solid fuels are also welcome.

Many environmental issues are an inseparable part of any kind of mining activity and influence overall economic system of mining industry. Sustainable management of environment in any way affected by mining activity has crucial influence on a matter of national environmental significance in countries where mining of fossil fuels and valuable minerals is under development. That is why Journal of Sustainable Mining covers also topics related to Environmental Protection at Industrial Areas; Safe waste disposal and Post-mining land reclamation including recently raised problems caused by NORM (Naturally Occurring Radioactive Materials) that are inherent in exploitations of many kinds of natural resources.

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