Special Issue

Smart Sensors for Real-Time Mining Hazard Detection

Message from the Guest Editor

Mining operations have long been threatened by sudden hazards like gas outbursts and roof collapses. Traditional detection technologies, with delayed responses and single-dimensional monitoring, can hardly meet real-time prevention and control needs. Smart sensors, leveraging advantages of high sensitivity, real-time data interaction, and multi-parameter collaborative analysis, have become key to solving this problem. Focusing on "Smart Sensors for Real-Time Mining Hazard Detection", this Special Issue invites scholars to share achievements in sensing material innovation, algorithm optimization, and harsh environment adaptation to promote technology transformation.

- Smart Sensors
- Mining Hazard Detection
- Real-Time Monitoring
- Disaster Early Warning
- Gas Early Warning
- Sensing Materials
- Multi-Parameter Fusion
- Harsh Environment Adaptation
- Safe Mining Production

Guest Editor

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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