

# **Advances in Materials Science and Engineering**

## **Modern Engineered Materials and Technologies for Metal Forming Applications**

There is a growing industrial use of advanced materials. This has pushed a corresponding development of advanced technologies for metal forming. It is important to understand the interaction between materials of workpiece and the tool as well as the effect of coatings, lubricants, process parameters and so forth when improving efficiency of process, product quality and tool life.

This special issue will compile papers summarizing the state of the art concerning this knowledge. The profound insights into this knowledge are extremely important for providing valuable information as well as will also provide directions for future research.

We encourage and invite researchers in industry and academia to contribute original research articles within the scope of this issue. Indicative topics are

- High-performance steels related to the metal forming applications
- Lightweight metal alloys related to the metal forming applications
- Coated blank materials
- Tailored blank materials
- Advanced tool steels
- Coating for tool steels
- Advanced forming of metal matrix composites (MMCs)
- Development of tool and processes
- Lubricants for forming
- Various advanced forming technologies (roll forming, warm and hot forming, electromagnetic forming, etc.)
- Modeling of materials and forming
- Experiments for model calibration and validation

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