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Metallurgy of Non-ferrous, Rare and Precious Metals

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Message from the Guest Editor

Modern metallurgy of non-ferrous, rare, and precious metals in 21st century has progressed significantly from the end of 19th century, when the metallurgical processes of, say, aluminum production were so expensive that French Emperor Napoleon III ate off of aluminum plates, while the gold and silver ones were served for his guests. However, a lot of energy is still required for the metallurgy of non-ferrous, rare, and precious metals. The trend of energy saving for this field is of primary importance. Another important problem is simplification of the new fast and energy saving methods and high-tech devices made of non-ferrous metals production: additive manufacturing for the complex-shape articles, micron-sized and nanometal powders production, characterization, application and modern powder metallurgy, new sintering and processing methods like spark plasma sintering (SPS), self-propagated high-temperature synthesis (SHS), mechanical alloying and mechanosynthesis etc. The above mentioned processes of innovative metallurgy will be covered in this Special Issue.



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Special Issue



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Message from the Editor-in-Chief

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