



Advances in Synthesis of Metallic, Oxidic and Composite Powders

Guest Editors:

Dr. Srecko Stopic

IME Process Metallurgy and Metal
Recycling Department, RWTH
Aachen University, 52056 Aachen,
Germany

Prof. Dr. Bernd Friedrich

IME Process Metallurgy and Metal
Recycling, RWTH Aachen
University, 52056 Aachen,
Germany

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Message from the Guest Editors

Dear Colleagues,

This Special Issue, "Advances in the Synthesis of Metallic, Oxidic and Composite Powders", is dedicated to the latest scientific achievements in an efficient preparation of metals, oxides and composite materials. In this issue, we will be focus on description of the synthesis of metal, oxide and composite particles from the water, metalorganic and colloid solution using different synthesis methods. The main challenge of this issue is the controlled synthesis via process parameters (conditions and modes atomization, the concentration of solution, residence time of aerosol in a reactor, presence of additives, flow rate, decomposition and reduction temperature, different precursors with reducing agents, and surrounding atmosphere) in order to guide the process to obtain powders with such a morphology that satisfies more and more complex requirements for the properties of advanced engineering materials.





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Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science
and Engineering, College of
Engineering & Applied Science,
University of Wisconsin-
Milwaukee, 3200 N. Cramer
Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation
Center of Materials Genome
Engineering, State Key
Laboratory for Advanced Metals
and Materials, University of
Science and Technology Beijing,
30 Xueyuan Road, Beijing 100083,
China

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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Metals Editorial Office
MDPI, St. Alban-Anlage 26
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