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Novel Materials Synthesis by Mechanical Alloying/Milling (Volume II)

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Deadline for manuscript submissions:
closed (20 May 2022)

Message from the Guest Editors

It is the second Special Issue of this topic. In this Special Issue, the main objectives are to present new scientific and technological issues linked to: a) synthesis and processing in solid-state science and technology; high-energy milling, severe plastic deformation of materials (SPD), and reaction milling, b) new materials: composites, high entropy alloys, and materials for energy, c) structural and functional characterization: microstructure, mechanical properties, thermal stability, and magnetic response, d) new equipment and procedures: milling equipment based on improved milling efficiency, and e) simulation and models of the milling process.

Mechanical alloying/milling (MA/MM) is a versatile process for the production of powders. The size and size distribution of the particles change as a result of continuous fracture and welding. It has been applied to the production of advanced materials such as oxide dispersion-strengthened, amorphous, nanocrystalline, extended solid solutions, metastable phases, new ceramic, metallic, composite materials, pharmaceutical products, and mechanochemical reaction materials.

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Message from the Editorial Board

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