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Phase Transformation, Functional Properties, and Crystallography of Advanced Materials

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Deadline for manuscript submissions:
closed (20 May 2023)

Message from the Guest Editors

Dear Colleagues,

Solid-state phase transformation, as a classic topic in the field of materials science, has gained considerable attention for a long time. The use of such transformation not only allows substantial enhancement in the mechanical properties of structural materials but also induces some fascinating behaviors to functional materials. The discovery of some related functional activities in particular, e.g., shape memory effect, magnetocaloric effect and elastocaloric effect, has significantly promoted research progress. This Special Issue aims to provide a dedicated platform for sharing results concerning past accomplishments and future directions in the field of phase transformation, functional properties, and crystallography of advanced materials. We welcome review papers and original research articles on alloy design, microstructural characterization, and property tuning of functional alloys, either via experimental techniques or theoretical approaches.

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Message from the Editor-in-Chief

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