Special Issue

Research on Heat Treatment of Advanced Metallic Materials

Message from the Guest Editors

Heat treatment is a classic approach to adjust the microstructures and the corresponding properties for advanced metallic materials. Along with the rapid developments of advanced high resolution and analytical tools, and advanced heat treatment equipment and process design concept, our understanding of the structure-property relationships of advanced metallic materials have been tremendously extended. Consequently, excellent and even unthinkable serving performances have been achieved. It is always believed that the numerous innovations of heat treatment contribute to the innovative design in advanced metallic materials significantly. This Special Issue aims at covering recent progress and new developments in relationships between the microstructure and serving properties of advanced metallic materials after heat treatment. All aspects related to heat treatment involving physical and numerical simulation, microstructural characterization, equipment, process design concept, etc. are covered. Review articles which describe the current state of the art are also welcomed.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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