



*materials*



*Special Issue Reprint*

## **Physical Metallurgy of Metals and Alloys II**

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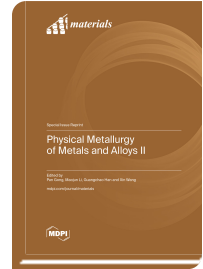
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The following Special Issue focuses on all of the above classes of materials and the areas of physical metallurgy, process metallurgy, materials science, and processing techniques. Specific areas of interest also include titanium/nickel-based superalloys, intermetallics, advanced metallic materials, nanomaterials, metal matrix composites, functional materials, related synthesis and processing techniques, finite element modeling, statistical analysis, physical/mechanical property characterization, experimental validation, and other relevant phenomena.

Physical metallurgy is important in the design and optimization of advanced materials with superior physical and mechanical properties over their service lives via microstructural modifications and processing techniques. The goal of this Special Issue on the physical metallurgy of metals and alloys is to bring together information on the recent progress, novel technologies, and advanced equipment described in our works on the design and development of advanced metals and alloys and provide guidelines/benchmarks for further research in related areas. Composites, intermetallics, and nanomaterials as well as functional materials will also be included.



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