



Experimental and Theoretical Studies on the Physical Properties of Lanthanides, Actinides, and Their Compounds

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Lanthanides and actinides are extremely important technological materials. Lanthanides have been widely used as alloys to impart strength and hardness to metals. The main lanthanide used for this purpose is cerium, mixed with small amounts of lanthanum, neodymium, and praseodymium. These metals are also widely used in the petroleum industry for refining of crude oil into gasoline products. The actinides are valuable primarily because they are radioactive. These elements can be used as energy sources for applications as varied as cardiac pacemakers and generation of electrical energy for instruments on the moon. Uranium and plutonium have been employed in nuclear weapons and in nuclear power plants.

This Special Issue is devoted to the forefront of research on the physical properties of lanthanides, actinides, and their compounds. Research papers as well as review articles that represent the most recent advances in both experimental and theoretical studies on lanthanides, actinides, and their compounds, in the form of original research, are welcome to be submitted to this Special Issue.





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Message from the Editor-in-Chief

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