

Abstract Submitted
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Investigation of the Sr₂Ir_{1-x}Ti_xO₄ Solid Solution ALVIN GATIMU, ROMAIN BERTHELOT, SEAN MUIR, MAS SUBRAMANIAN, Oregon State University — Motivated by a number of unique physical properties and a spirited search for superconducting oxides with structures analogous to La₂CuO₄, there have been a number of detailed investigations on the physical properties of Sr₂IrO₄. The effect of Ti substitution for Ir in Sr₂IrO₄ is investigated. A complete solid solution Sr₂Ir_{1-x}Ti_xO₄ is obtained. Structural, magnetic and electronic properties are discussed.

Alvin Gatimu
Oregon State University

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