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Crystallinity Properties of Ternary III-Oxide Alloys

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In this work, DFT analysis is employed to study the structural evolution of ternary III-oxides, such as $(\text{In}_x\text{Al}_{1-x})\text{O}_3$, $(\text{Al}_y\text{Ga}_{1-y})\text{O}_3$, and $(\text{Ga}_z\text{In}_{1-z})\text{O}_3$, determining the compositions at which phase transitions occur and important physical parameters.

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