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Solid-state Reaction Mechanisms of $MnCoNiO$ Solid Solution
Synthesized with Different Nickel Precursors

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Abstract: Powder samples of $Mn_{1.8}Co_{0.2}NiO_4$ were successfully synthesized via solid-state reaction method with manganese, cobalt and nickel inorganic salts as reaction precursors. Crystalline phase and transition were characterized with XRD and TG-DSC. The experimental results show that the pure products of single spinel structure were prepared using different reaction starting reagents, of which reaction processes are not the same owing to the topologic characteristics of different nickel-reaction precursors.

Key words: Spinel; Solid-state method; Reaction precursors

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